

Catalog 3460
July 1, 2003



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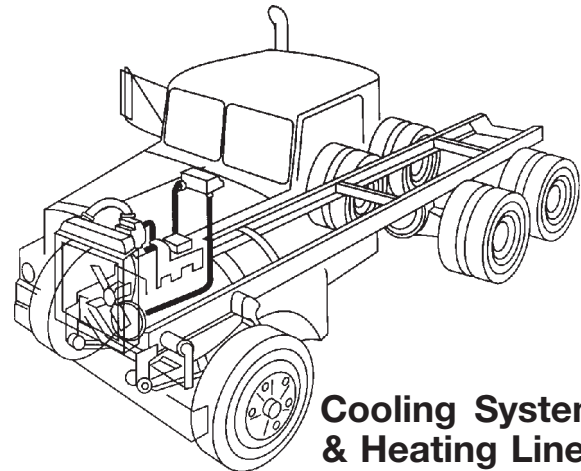
Parker System Coverage:

Complete system coverage—this is what the Parker name means to the transportation and mobile equipment industry today.

Designed and engineered for nearly all heavy-duty truck and mobile equipment applications, Parker system coverage includes:

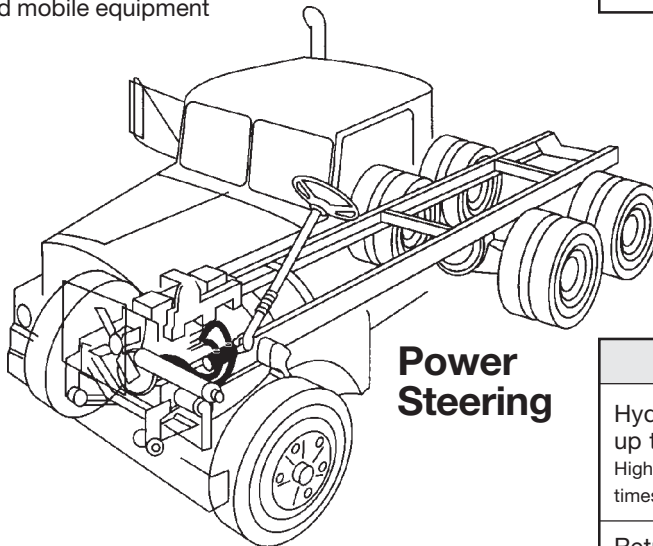
- Cooling and heating systems
- Air intake system
- Power steering systems
- Air-conditioning systems
- Cab tilt system
- Air systems (air brake, secondary air systems, tractor/trailer connections)
- Fuel and Lube systems
- Hydrostatic circuits
- Non-conductive applications on aerial lift trucks
- Hydraulic systems in general on mobile equipment

Because of their consistent quality and complete system coverage, Parker products have become the standard to the trucking and mobile equipment industry.



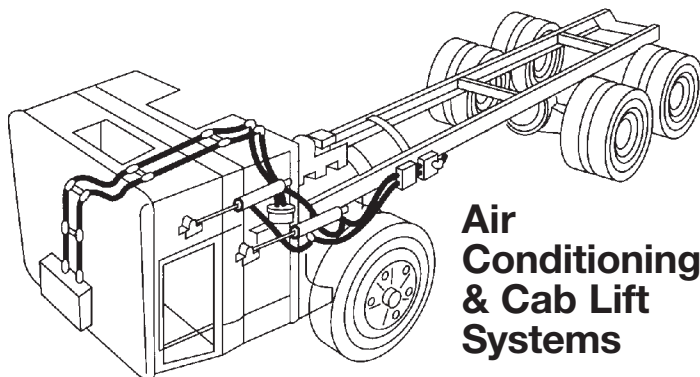
Cooling System & Heating Lines

Application	Recommended
Cooling Systems and Heating lines (Antifreeze at low pressure)	293, 848, 4241 or 4244 Hose



Power Steering

Application	Recommended
Hydraulic oil up to 2500 psi High temp. sometimes exists)	201/261, 206, 266PKR and 20 Series Fittings, 421 HT, 436 Hose and 43 Series Fittings
Return line (No pressure)	261, 293 & 213PKR Hose, PDCouplers



Air Conditioning & Cab Lift Systems

Application	Recommended
Air conditioning (Freon 12) (Freon 134A)	1/8" 60 Series Quick Couplings 285 Hose and 26 Series Crimp Fittings
Cab TILT System (Hydraulic oil up to 2000 psi)	201, 261, 540N-4 Hose and 20 & 55 Series Fittings

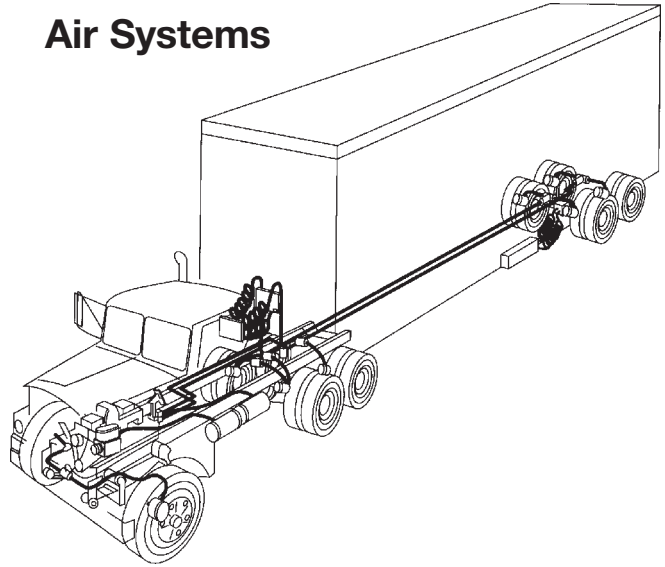
Air Brake

Application	Recommended
Mainline piping on chassis (Compressed air 80-120 psi)	213PKR Hose and Fitting, 273 Hose and Fittings, PFT tubing and NTA/ Prestomatic Fittings
Complete chassis air brake system except compressor line	293 Hose and 26 Series Crimp Fittings or 201/261 Hose and 20 Series Fittings
Compressor discharge to storage tank (Hot compressed air to 120 psi & 400° F)	919 Teflon hose and 90 90 Series Reusable Fittings or 91N Series Crimp Fittings

Tractor to Trailer

Application	Recommended
Valve on cab (Compressed air 80-120 psi)	Brakcoil® 731516 or 751641
Valve low on cab at frame rail level or remote from cab (Compressed air 80-120 psi)	Brakcoil® 731522 (With pogo stick or spring hanger)

Air Systems

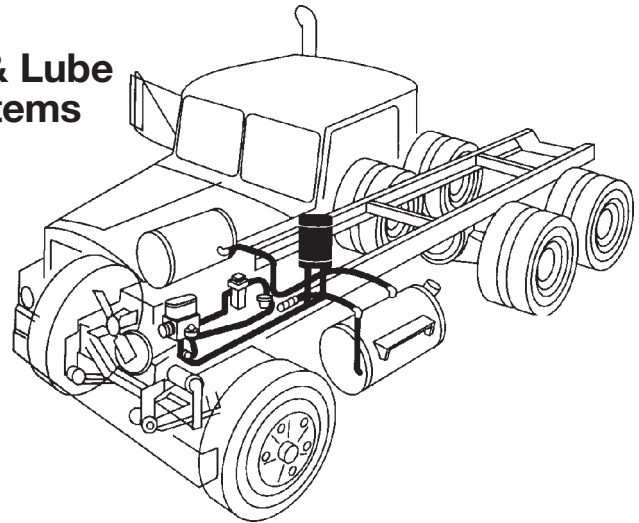


Secondary Air Systems

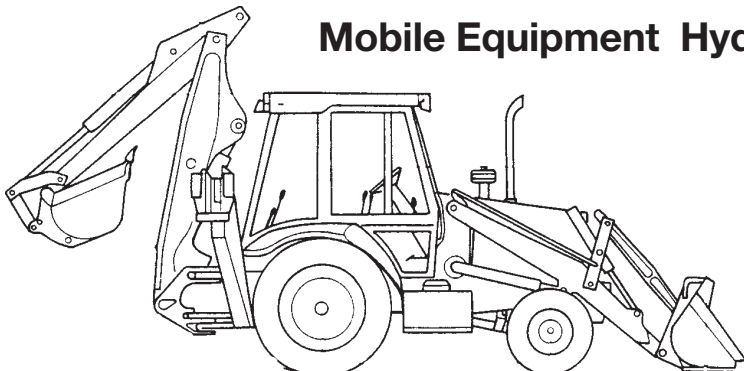
Application	Recommended
Shutter Stat, Windshield, wipers, horn, shift system, etc.	PFT tubing and NTA Fittings

Fuel & Lube Systems

Application	Recommended
Fuel Lines - (Hose compatible with diesel fuel-low pressure some suction) and Lube Filter System - (Lube oil can reach 230° F-high temp. 300° hose should be used)	293 Hose and 26 Series Crimp Fittings or 201/261 Hose and 20 Series Fittings



Mobile Equipment Hydraulic Systems



Application	Recommended
Hydrostatic circuits Pressure over 4000 psi	772TC or 78C Hose and 71 or 78 Series Fittings
All other hydraulic functions Pressures typically less than 3000 psi	301/381/451TC and 43 Series Fittings 590 Hose and 55 and 58 Series Fittings

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431 Compact	A18	60NTA	G17	660FHD	G31	792ST	A28
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46F	G28	601	A22	664FHD	G31	8WC-001	M16
46IFHD	G39	601069	M19	6657	L14	80C-A04	M8, M9, M12, M13
471ST	A20	604	A22	6659	L14	80C-A05	M8, M9, M12, M13
471TC	A20	61AB	G15	67RBSG	G41	80C-A06	M8, M9, M12, M13
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48IFHD	G39	61CL	G22	68HB	G46	80C-A10	M8, M9, M12, M13
482ST	A21	61HAB	C69	68PM	G9	80C-A12	M8, M9, M12, M13
482TC	A21	61NTA	G17	68PMT	G10	80C-A16	M8, M9, M12, M13
5E	K5	61RB	G41	68RB	G41, G42	80C-A20	M8, M9, M12, M13
5EP	K5	61RBSG	G41	68RBSG	G42	80C-E04	M8, M9, M12, M13
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53LT	B9	62NBH	G18	731612	I4	80C	M12
53N	E21	62NTA	G18	741526	I4	80C-001	M12
533T	E14	62PM	G9	741590	I4	80C-080	M12
54GH	G42	62PMT	G9	75GH	G42	80C-081	M12
540N	B6	62PMTBH	G9	751597	I4	80C-110	M12
543T	E14	62PMTBHR	G9	751634	I6	80GH	G43
55AG	M25	62RB	G41	751635	I6	801	A4
55GH	G42	62TF	G15	751641	I4	8010	L10
55LT	B7	62VL	G21	751655	I4	8010-4	L11
55SG	M25	63NTA	G18	751656	I4	801048	I5
55SSG	M25	63PT	G23	751657	I6	801595	I5
550H	B6, B16	631075	M18	751659	I6	801632	I5
5502	E36	639C	G26	76RB	G42	804	A4
5503	E10	639F	G29	77C	A24	81GH	G43
56RBSG	G40	639PMT	G11	771513	D18	811	A29
560	B7	640F	G29	772ST	A25	811510	I4
5603	E17	652200	M19	772TC	A25	811511	I4
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Chemical Compatibility Guide - Rubber Hose & Fittings

Hose Selection by Medium and Hose Type

This hose compatibility chart is a ready reference of Parker hose compatibility with various fluid media. It is intended as a guide to chemical compatibility with inner tube materials and assembly lubricant applied internally. The specific recommendations are based upon field experience, the advice of various polymer or fluid suppliers, and specific laboratory experiments. It must be stressed, however, that this information is offered only as a guide. Final hose selection depends also upon pressure, fluid temperature, ambient temperature, and special requirements or variations, which may not be known by Parker Hannifin. Legal and other regulations applicable to footnotes (1), (2), and (5) must be followed with particular care. Where an external compatibility problem may occur, or for fluids not listed, we encourage you to first contact the fluid manufacturer for a recommendation prior to contacting your Parker Hannifin Field Representative or the Technical Service Department, Hose Products Division, Wickliffe, Ohio.

Use the Chart as Follows:

1. Locate medium to be carried.
2. Select suitability of hose and fitting material, using the Chemical Resistance Table on the following pages. See resistance rating key below for explanation of compatibility ratings.
3. The Column headings on the Chemical Resistance Table, I, II, III, IV, V, refer to specific groups of hoses.
4. Locate hose part number under Column I, II, III, IV, V from the list below.
5. For fitting material availability refer to appropriate fitting selection of catalog.
6. Check hose specifications in this catalog. Contact Hose Division Technical Service Department on any items not cataloged.

Resistance Rating Key

A = Preferred, good to excellent with little or no change in physical properties.

F = Fair, marginal or conditional with noticeable affects on physical properties.

X = Unsuitable, severe affects on physical properties.

~ = No rating, insufficient information.

Numerals

(1) For air above 250 PSI (1,7 Mpa), the cover should be pin pricked.

(2) Legal and insurance regulations must be considered. Contact Technical Service Department for more information.

(3) Hoses in Column II are recommended.

(4) 158°F (70°C) maximum.

(5) Use 285 or 235 hoses.

(6) 185°F (85°C) maximum.

(7) Satisfactory at some concentrations and temperatures, unsatisfactory at others.

(8) Some discoloration of fluid may occur without damage to fluid properties.

(9) For phosphate ester fluids use 274, 304, 424, 774 or 804 hoses.

(10) Acceptable for flushing hose assemblies.

(11) Use 381, 482, 772, 782, 792, or 831.

(12) 221FR hose recommended.

(13) For dry air applications, hoses with inner tubes from columns II, IV, and V are recommended.

(14) 212°F (100°C) maximum.

(15) 250°F (121°C) maximum.

Hose Types

Column I

201/261, 225, 301, 301LT, 341, 421, 421WC, 601, 701, 731, 811, 821, 881

Column II

SS25UL, 221FR, 381, 421HT, 431, 436, 451ST, 451TC, 471, 471ST, 482ST, 482TC, 772ST, 772TC, 782792, 801, 831

Column III

77C, 78C

Column IV

206, 213PKR, 266, 293, 821FR, 836

Column V

274, 424, 604, 304, 774, 804

Caution:

The fluid manufacturer's recommended maximum operating temperature for any specific name-brand fluid should be closely observed by the user. Specific name brand fluids can vary greatly between manufacturers even though they are considered to be from the same family or type of fluids. Using fluids above the manufacturers maximum recommended temperature can cause the fluid to break down, creating by-products that can be harmful to elastomers or other materials used in the system. When selecting a hose type, both the fluid manufacturer and hose manufacturers maximum temperature limit must be taken into consideration, with the lower of the two taking precedence.

Chemical Compatibility Guide - Rubber Hose & Fittings (Cont'd)

Mediums	Materials																
	Hose					Fittings											
	CR NBR I	PKR II	EPDM III	IV	V	Steel	Brass	S.S.									
3MFC-75	A	A	A	A	A	A	A	A	Chevron HyJet IV	X	X	X	X	A(9)	A	A	A
Acetic Acid	X	X	X	A	(7)	X	X	A	Citric Acid	(3)	A	F	X	A	X	X	(7)
Acetone	X	X	X	A	A	A	A	A	Commonwealth EDM 242, 244	A	A	A	~	X	A	A	A
Acetylene	X	X	X	X	(2)	~	~	~	CompAir CN300	X	X	X	F	X	A	A	A
AEROSHELL Turbine Oil 500	F(3)	F	X	A	X	A	A	A	CompAir CS100, 200, 300, 400	X	X	X	F	X	A	A	A
Air	A(1,4)	A(1,4)	A(1,4)	A(1,4)	A(1,4)	A	A	A	Coolanol 15, 20, 25, 35, 45	A	A	A	A	A	A	A	A
Air (dry)	F(4,13)	F(4,13)	X	A(4,13)	A(4,13)	A	A	A	Copper Chloride	(3)	A	F	X	A	X	X	X
Alcohol (Methanol-Ethanol)	F	F	F	F	F	F	A	A	Copper Sulfate	A	A	A	X	A	X	X	F
Ammonia (Anhydrous)	X	X	X	X	X	X	X	X	Cosmolubric HF-122, HF-130, HF-144	X	(11)	X	X	X	A	A	A
Ammonium Chloride	A	A	A	A	A	X	X	X	Cosmolubric HF-1530	X	(11)	X	X	X	A	A	A
Ammonium Hydroxide	F	F	F	A	A	F	X	A	Cottonseed Oil	(3)	A	F	F	X	A	A	A
Ammonium Nitrate	A	A	A	F	A	F	X	A	CPI CP-4000	X	X	X	F	X	A	A	A
Ammonium Phosphate	A	A	A	A	A	X	X	F	Crude Petroleum Oil	(3)	A	F	A	X	F	F	A
Ammonium Sulfate	A	A	A	A	A	F	X	F	CSS 1001 Dairy Hydraulic Fluid	(3)	A	F	A	X	A	A	A
Amoco 32 Rykon	(3)	A	X	F	X	A	A	A	Daphne AW32	A	A	A	A	X	A	A	A
Ampol PE 46	X	X	X	X	A	A	A	A	Dasco FR150, 200, 310	A	A	F	~	A	A	A	A
AMSOIL Synthetic ATF	(3)	A	F	A	X	A	A	A	Dasco FR300, FR2550	X	X	X	~	X	A	A	A
Amyl Alcohol	X	X	X	F	F	X	A	A	Dasco FR355-3	X	(11)	X	X	X	A	A	A
Anderol 495,497,500,750	X	X	X	F	A	A	X	A	Deicer Fluid 419R	(3)	A	A	~	~	A	A	A
Aniline	X	X	X	F	A	A	X	A	Deionized Water	A	A	A	A	A	F	F	A
Animal Fats	F(3)	F	X	F	F	(7)	(7)	A	Dexron II ATF	(3)	A	F	A	X	A	A	A
Aquacent Light, Heavy	(3)	A	X	X	X	A	A	A	Dexron III ATF	X	F(14)	X	A(15)	X	A	A	A
Aromatic 100,150	F(3)	F	X	~	X	A	A	A	Diesel Fuel	(3)	A	X	A	X	A	A	A
Arrow 602P	A	A	A	A	X	A	A	A	Diester Fluids	X	X	X	F	X	A	A	A
Asphalt	X	F	X	F	X	F	A	A	Dow Corning DC 200, 510, 550, 560, FC126	A	A	A	F	~	A	A	A
ASTM #3 Oil	F	F	F	F	X	A	A	A	Dow HD50-4	F	F	F	~	~	~	~	A
ATF-M	(3)	A	F	A	X	A	A	A	Dowtherm A,E	X	X	X	F	X	A	A	A
Automotive Brake Fluid	X	X	X	X	~	X	X	X	Dowtherm G	X	X	X	X	X	A	A	A
AW32,46,68	(3)	A	F	A	X	A	A	A	Duro AW-16, 31	A	A	A	~	X	A	A	A
BCF	F	F	F	F	~	A	A	A	Duro FR-HD	A	A	A	~	X	A	A	A
Benz Petraulic 32,46,68,100, 150,220,320,460	(3)	A	F	A	X	A	A	A	EcoSafe FR-68	A	A	A	~	X	A	A	A
Benzene, Benzol	X	X	X	F	X	A	A	A	Ethanol	F	F	F	F	F	F	A	A
Benzgrind HP 15	A	A	~	A	X	A	A	A	Ethers	X	X	X	F	X	A	A	A
Benzine	X	X	X	F	X	A	A	A	Ethyl Acetate	X	X	X	F	F	F	A	A
Biodegradable Hydraulic Fluid 112B	(3)	A	X	X	~	A	A	A	Ethyl Alcohol	F	F	F	F	F	F	A	A
Borax	F(3)	F	F	F	A	F	A	A	Ethyl Cellulose	F	F	F	F	F	X	F	F
Boric Acid	A	A	A	X	A	X	(7)	A	Ethyl Chloride	X	X	X	X	A	F	F	F
Brayco 882	(3)	A	X	A	X	A	A	A	Ethylene Dichloride	X	X	X	F	X	X	A	X
Brayco Micronic 745	X	(11)	X	F	X	A	A	A	Ethylene Glycol	(3)	A	F	A	A	A	F	A
Brayco Micronic 776RP	(3)	A	F	F	X	A	A	A	Exxon 3110 FR	A	A	A	A	X	A	A	A
Brayco Micronic 889	F(3)	F	X	~	X	A	A	A	Exxon Esstic	A	A	A	A	A	A	A	A
Brine	F	F	F	A	A	X	F	F	Exxon Nuto H 46, 68	A	A	A	A	X	A	A	A
Butane	F(2)	F	X	~	X	A	A	A	Exxon Tellura Industrial Process Oils	A	A	A	A	X	A	A	A
Butyl Alcohol, Butanol	F	F	F	F	F	F	F	A	Exxon Terresstic, EP	A	A	A	A	A	A	A	A
Calcium Chloride	A	A	A	F	A	F	F	X	Exxon Turbo Oil 2380	F(3)	F	X	F	X	A	A	A
Calcium Hydroxide	A	A	A	A	A	A	A	A	Exxon Univolt 60, N61	(3)	A	F	A	X	A	A	A
Calcium Hypochlorite	X	X	X	A	A	X	F	X	FE 232 (Halon)	X	X	X	X	F	A	A	A
Calibrating Fluid	A	A	A	A	X	A	A	A	Penso 150	(3)	A	~	~	X	A	A	A
Carbon Dioxide	F(7)	F	F	F	(7)	A	A	A	Formaldehyde	X	X	X	A	A	X	F	A
Carbon Disulfide	X	X	X	F	X	A	F	A	Formic Acid	X	X	X	X	A	X	(7)	X
Carbon Monoxide (hot)	F	F	F	F	(7)	F	(7)	A	Freons see refrigerants	~	~	~	~	~	~	~	~
Carbon Tetrachloride	X	X	X	F	X	(7)	(7)	(7)	Fuel Oil	(3)	A	F	A	X	A	A	A
Carbonic Acid	F	F	F	X	F	X	X	F	Fyre-Safe 120C,126,155,1090E, 1150,1220,1300E	X	X	X	X	A	A	A	A
Castor Oil	A	A	A	A	A	A	A	A	Fyre-Safe 200C, 225, 211	(3)	A	F	A	A	A	A	A
Castrol 5000	F(3)	F	X	A	X	A	A	A	Fyre-Safe W/O	A	A	A	A	X	A	A	A
Cellosolve Acetate	X	X	X	X	A	X	X	A	Fyrquard 150, 150-M, 200	A	A	A	A	A	A	A	A
Celluguard	A	A	A	~	A	A	A	A	Fyrquel 60, 90, 150, 220, 300, 550, 1000	X	X	X	X	A	A	A	A
Cellulube 90, 150, 220 300, 500, 1000	X	X	X	~	A	A	A	A	Fyrquel EHC, GT, LT, VPF	X	X	X	X	A	A	A	A
Chevron Clarity AW 32, 46, 68	A	A	A	A	X	A	A	A	Fyrtek MF 215, 290, 295	X	X	X	X	X	A	A	A
Chevron FLO-COOL 180	F	F	F	~	X	A	A	A	Gardner-Denver GD5000, GD8000	X	X	X	F	X	A	A	A
Chevron FR-8, 10, 13, 20	X	X	X	X	A	A	A	A									
Chevron Hydraulic Oils AW MV15, 32, 46, 68, 100	A	A	A	A	X	A	A	A									

Chemical Compatibility Guide - Rubber Hose & Fittings (Cont'd)

Mediums	Materials							
	Hose					Fittings		
	CR NBR I	PKR II	EPDM III	IV	V	Steel	Brass	S.S.
Gasoline	X(12)	X(12)	X(12)	X(12)	X(12)	A	A	A
Glue	F	F	F	~	X	A	F	A
Glycerine, Glycerol	A	A	A	A	A	A	F	A
Grease	A	A	A	A	X	A	A	A
Gulf-FR Fluid P37, P40, P43, P45, P47	X	X	X	F	A	A	A	A
H-515 (NATO)	A	A	A	~	X	A	A	A
Halon 1211, 1301	F	F	F	F	~	A	A	A
Helium Gas	X	X	X	X	X	A	A	A
Heptane	F(3)	F	X	A	X	A	A	A
Hexane	F(3)	F	X	A	X	A	A	A
HF-20, HF-28	A	A		A	A	A	A	A
Houghto-Safe 1055, 1110, 1115, 1120, 1130 (9)	X	X	X	X	A	A	A	A
Houghto-Safe 271 to 640	(3)	A	F	F	A	A	A	A
Houghto-Safe 419R Deicer Fluid	(3)	A	A	~	~	A	A	A
Houghto-Safe 5046, 5046W, 5047-F	A	A	A	A	X	A	A	A
HP 100C (Jack hammer oil)	(3)	A	F	A	X	A	A	A
HPWG 46B	(3)	A	F	F	~	A	A	A
Hul-E-Mul	A	A	A	~	X	A	A	A
Hychem C, EP1000, RDF	A	A	A	A	A	A	A	A
Hydra Safe E-190	A	A	A	F	X	A	A	A
Hydra-Cut 481, 496	A	A	A	~	X	A	A	A
Hydrafluid 760	A	A	A	~	X	A	A	A
Hydrochloric Acid	X	X	X	X	X	X	X	X
Hydrofluoric Acid	X	X	X	X	X	(7)	X	X
Hydrogen Gas	X	X	X	X	X	A	A	A
Hydrogen Peroxide	X	X	X	F	X	X	X	(7)
Hydrogen Sulfide	X	X	X	X	A	X	X	(7)
Hydrolube	A	A	A	F	A	A	A	A
Hydrolubric 120-B, 141, 595	(3)	A	F	F	A	A	A	A
Hydrosafe Glycol 200	A	A	A	A	A	A	F	A
HyJet IV	X	X	X	X	A(9)	A	A	A
Ideal Yellow 77	A	A	A	A	X	A	A	A
Imol S150 to S550	X	X	X	~	~	A	A	A
Ingersoll Rand SSR Coolant	X	X	X	F	X	A	A	A
Isoocyanates	F(3)	F	F	F	X	A	~	A
Isocotane	F(3)	F	X	A	X	A	A	A
Isopar H	X	X	X	X	X	A	A	A
Isopropyl Alcohol	F	F	F	F	F	F	A	A
Jayflex DIDP	X	X	X	X	A	A	A	A
JP3 and JP4	(3)	A	X	~	X	A	A	A
JP5	(3)	A	X	F	X	A	A	A
JP9	X	X	X	X	X	A	~	A
Kaesar 150P, 175P, 325R, 687R	X	X	X	F	X	A	A	A
Kerosene	(3)	A	X	F	X	A	A	A
KSL-214, 219, 220, 222	X	X	X	F	X	A	A	A
Lacquer	X	X	X	F	X	X	A	A
Lacquer Solvents	X	X	X	F	X	X	A	A
Lactic Acids	X	X	X	X	X	X	X	A
Lindol HF	X	X	X	F	A	A	A	A
Linseed Oil	A	A	A	A	A	A	A	A
LP-Gas	(2)	(2)	X	X	X	A	A	A
Magnesium Chloride	A	A	A	A	A	X	X	X
Magnesium Hydroxide	F	F	F	A	A	F	F	F
Magnesium Sulfate	A	A	A	A	A	A	F	A
Mercaptans	X	X	X	X	X	~	~	~
Methane	(2,3)	A	F	F	X	A	A	A
Methanol	F	F	F	F	F	F	A	A
Methyl Alcohol	F	F	F	F	F	F	A	A
Methyl Chloride	X	X	X	F	X	A	A	A
Methyl Ethyl Ketone (MEK)	X	X	X	F	X	F	A	A
Methyl Isopropyl-Ketone	X	X	X	X	X	F	A	A
Metsafe FR303, FR310, FR315, FR330, FR350	X	X	X	X	X	X	X	X
Microzol-T46	(3)	A	X	~	X	A	A	A
MIL-B-46176A	X	X	X	X	X	X	X	X
MIL-H-46170	F(3)	F	X	F	X	A	A	A
MIL-H-5606	(3)	A	F	A	X	A	A	A
MIL-H-6083	(3)	A	F	A	X	A	A	A
MIL-H-7083	(3)	A	F	A	X	A	A	A
MIL-H-83282	(3)	A	F	A	X	A	A	A
MIL-L-2104, 2104B	(3)	A	F	A	X	A	A	A
MIL-L-23699	F(3)	F	X	A	X	A	A	A
MIL-L-7808	(3,6)	A	F	~	X	A	A	A
Mine Guard FR	A	A	A	~	A	A	A	A
Mineral Oil	A	A	A	F	X	A	A	A
Mineral Spirits	(10)	(10)	(10)	(10)	X	A	A	A
Mobil Aero HFE	(3)	A	F	F	X	A	A	A
Mobil DTE 11M, 13M, 15M, 16M, 18M, 19M	(3)	A	F	A	X	A	A	A
Mobil DTE 22, 24, 25, 26	(3)	A	F	A	X	A	A	A
Mobil EAL 224H	(3)	A	X	X	~	A	A	A
Mobil EAL Artic 10, 15, 22, 32, 46, 68, 100	X	X	X	X	X	A	A	A
Mobil Glycoyle 11, 22, 30, 80	A	A	A	~	X	A	A	A
Mobil HFA	(3)	A	F	A	X	A	A	A
Mobil Jet 2	F(3)	X	X	A	X	A	A	A
Mobil Nyvac 20, 30, 200, FR	(3)	A	F	F	A	A	A	A
Mobil Rarus 824, 826, 827	X	X	X	F	X	A	A	A
Mobil SHC 600 Series	(3)	A	F	A	X	A	A	A
Mobil SHC 800 Series	(3)	A	F	A	X	A	A	A
Mobil SHL 624	(3)	A	A	~	A	X	A	A
Mobil Vactra Oil	A	A	A	F	X	A	A	A
Mobil XRL 1618B	X	X	X	X	A	A	A	A
Mobilfluid 423	(3)	A	F	A	X	A	A	A
Mobilgear SHC 150, 220, 320, 460, 680	F(3)	X	F	F	X	A	A	A
Mobilrama 525	A	A	A	F	X	A	A	A
Molub-Alloy 890	X	X	X	F	X	A	A	A
Moly Lube "HF" 902	F(3)	F	F	F	X	A	A	A
Monolec 6120 Hydraulic Oil	A	A	A	A	X	A	A	A
Morpholine (pure additive)	X	X	X	X	X	X	X	A
Naptha	F(3)	F	X	A	X	A	A	A
Napthalene	X	X	X	F	X	A	A	A
Natural Gas	(2)	(2)	X	X	X	A	A	A
Nitric Acid	X	X	X	X	X	X	X	F
Nitrobenzene	X	X	X	F	X	X	X	A
Nitrogen	F(1)	F(1)	F(1)	F(1)	F(1)	A	A	A
NORPAR 12, 13, 15	(10)	(10)	(10)	(10)	X	A	AA	A
Nuto H 46, 68	A	A	A	A	X	A	A	A
Nyvac 20, 30, 200, FR	(3)	A	F	F	A	A	AA	A
Nyvac Light	X	X	X	~	A	A	A	A
Oceanic HW	(3)	A	F	F	X	A	A	A
Oxygen	X	X	X	X	X	X	A	A
Ozone	F	F	F	~	A	A	A	A
Pacer SLC 150, 300, 500, 700	X	X	X	F	X	A	A	A
Pennzbell AWX	(3)	A	F	F	X	A	A	A
Perchloroethylene	X	X	X	X	X	F	X	A
Petroleum Ether	F(3)	F	X	F	X	A	A	A
Petroleum Oils	A	A	A	A	X	A	A	A
Phenol (Carbolic Acid)	X	X	X	A	X	X	F	A
Phosphate Ester Blends	X	X	X	X	X	X	A	A
Phosphate Esters	X	X	X	X	A(9)	A	A	A
Phosphoric Acid	X	X	X	X	X	X	X	F
Plurasafe P 1000, 1200	(3)	A	F	A	F	A	A	A

Chemical Compatibility Guide - Rubber Hose & Fittings (Cont'd)

Mediums	Materials							
	Hose					Fittings		
	CR NBR I	PKR II	EPDM III	IV	V	Steel	Brass	S.S.
Polyalkylene Glycol	F	F	A	~	X	A	A	A
Polyol Ester	X	(11)	X	X	X	A	A	A
Potassium Chloride	A	A	A	A	A	X	F	F
Potassium Hydroxide	X	X	X	F	A	(7)	X	A
Potassium Sulfate	A	A	A	A	A	A	A	A
Propane	(2)	(2)	X	X	X	A	A	A
Propylene Glycol	(3)	A	F	A	A	F	F	F
Pydraul 10-E, 29-E, 50-E, 65-E, 90-E, 115-E	X	X	X	X	A	A	A	A
Pydraul 230-C, 312-C, 68-S	X	X	X	X	A	A	A	A
Pydraul 60, 150, 625, F9	X	X	X	X	A(9)	A	A	A
Pydraul 90, 135, 230, 312, 540, MC	X	X	X	X	X	A	A	A
Pydraul A-200	X	X	X	F	X	A	A	A
Pyro Gard 43, 230, 630 (9)	X	X	X	X	X	A	A	A
Pyro Gard C, D, R, 40S, 40W	(3)	A	F	F	A	A	A	A
Pyro Guard 53, 55, 51, 42	X	X	X	X	A(9)	A	A	A
Quintolubric 700	A	A	A	A	A	A	F	A
Quintolubric 807-SN	(3)	A	F	~	X	A	A	A
Quintolubric 822-68EHC	X	(4,11)	X	~	~	A	A	A
Quintolubric 822, 833	X	(11)	X	X	X	A	A	A
Quintolubric 957, 958	(3)	A	F	F	A	A	A	A
Quintolubric N822-300	X	(11)	~	~	~	A	A	A
Rando	A	A	A	A	X	A	A	A
Rayco 782	X	(11)	X	X	X	X	X	X
Refrigerant Freon 113, 114	X	X	X	X	X	A	A	A
Refrigerant Freon 12	(5)	(5)	X	X	X	A	A	A
Refrigerant Freon 22	(5)	(5)	X	X	X	A	A	A
Refrigerant Freon 502	X	X	X	X	X	A	A	A
Refrigerant HFC134A	(5)	(5)	X	X	X	A	A	A
Refrigerant 124	(5)	(5)	X	X	X	A	A	A
Reolube Turbofluid 46	X	X	X	X	A(9)	A	A	A
Rotella	A	A	A	A	X	A	A	A
Royal Bio Guard 3032, 3046, 3068, 3100	X	(11)	X	X	X	A	A	A
Royco 2200, 2210, 2222, 2232, 2246, 2268	X	X	X	X	X	A	A	A
Royco 4032, 4068, 4100, 4150	X	X	X	F	X	A	A	A
Royco 756, 783	A	A	A	A	X	A	A	A
Royco 770	F(3)	F	X	F	X	A	A	A
RTV Silicone Adhesive Sealants	X	X	X	X	X	A	A	A
Safco-Safe T10, T20	A	~	~	~	A	F	F	A
Safety-Kleen ISO 32, 46, 68 hydraulic oil	(3)	A	F	~	X	A	A	A
Safety-Kleen Solvent	(10)	(10)	(10)	(10)	X	A	A	A
Santoflex 13	F	F	F	~	F	A	A	A
Santosafe 300	X	X	X	~	X	A	A	A
Santosafe W/G 15 to 30	A	~	~	~	A	A	A	A
Sea Water	F	F	F	F	A	X	F	A
Sewage	F(3)	F	F	A	F	X	F	A
Shell 140 Solvent	(10)	(10)	(10)	(10)	X	A	A	A
Shell Clavus HFC 68	X	X	X	X	X	A	A	A
Shell Comptella Oil	F(3)	F	F	A	X	A	A	A
Shell Comptella Oil S 46, 68	F(3)	F	F	A	X	A	A	A
Shell Comptella Oil SM	F(3)	F	F	A	X	A	A	A
Shell Diala A, (R) Oil AX	(3)	A	F	F	X	A	A	A
Shell FRM	A	~	~	~	X	A	A	A
Shell IRUS 902, 905	A	A	A	~	A	A	A	A
Shell Pella-A	A	A	A	A	X	A	A	A
Shell Tellus	(3)	A	F	A	X	A	A	A
Shell Thermia Oil C	A	A	A	A	X	A	A	A
Shell Turbo R	F(3)	F	X	A	X	A	A	A
SHF 220, 300, 450	X	(11)	X	X	X	A	A	A
Silicate Esters	A	F	A	A	X	A	A	A
Silicone Oils	A	A	A	~	~	A	A	A
Silicone Sealants	X	X	X	X	X	A	A	A
Skydrol 500B-4, LD-4	X	X	X	X	A(6)	A	A	A
Soap Solutions	F(3)	F	X	F	A	A	A	A
Soda Ash, Sodium Carbonate	A	A	A	A	A	A	F	A
Sodium Bisulfate	F	F	F	A	A	F	A	F
Sodium Chloride	F	X	F	A	A	X	F	A
Sodium Hydroxide	F	X	X	A	A	A	X	A
Sodium Hypochlorite	F	F	F	X	F	X	X	X
Sodium Nitrate	F	F	F	A	A	A	F	A
Sodium Peroxide	X	X	X	X	A	X	X	A
Sodium Silicate	A	A	A	A	A	A	A	A
Sodium Sulfate	A	A	A	A	A	A	A	A
Soybean Oil	(3)	A	F	A	A	A	A	A
SSR Coolant	X	X	X	F	X	A	A	A
Steam	X	X	X	X	X	F	A	A
Stoddard Solvent	(10)	(10)	(10)	(10)	X	A	A	A
Sulfur Chloride	X	X	X	F	X	X	X	X
Sulfur Dioxide	X	X	X	X	F	X	F	F
Sulfur Trioxide	X	X	X	F	F	X	X	X
Sulfuric Acid	F(7)	F	F	X	F(7)	(7)	X	(7)
Summa-20, Rotor, Recip	X	X	X	F	X	A	A	A
Summit DSL-32,68,100,125	X	X	X	F	X	A	A	A
Sun Minesafe, Sun Safe	F(3)	F	X	F	X	A	A	A
Sundex 8125	F(3)	F	X	~	~	A	A	A
Suniso 3GS	A	A	A	A	X	A	A	A
Sun-Vis 722	F(3)	F	X	~	X	A	A	A
Super Hydraulic Oil 100, 150, 220	A	A	A	A	X	A	A	A
SUVA MP 39, 52, 66	X	X	X	X	X	A	A	A
SYNCON Oil	X	X	X	X	X	A	A	A
Syndale 2820	F(3)	F	X	~	~	A	A	A
Synthetic 32,68,100	X	X	X	X	X	A	A	A
Syn-Flo 70,90	X	X	X	F	X	A	A	A
SYN-O-AD 8478	X	X	X	X	A	A	A	A
Tannic Acid	(3)	A	F	F	A	X	F	X
Tar	X	F	F	F	X	X	F	A
Tellus (Shell)	(3)	A	F	A	X	A	A	A
Texaco 760 Hydrafluid	A	~	~	~	X	A	A	A
Texaco 766, 763(200 - 300)	A	~	~	~	A	F	F	A
Texaco A-Z Oil	A	A	A	F	X	A	A	A
Texaco Spindura Oil 22	F(11)	F	F	F	X	A	A	A
Texaco Way Lubricant 68	A	A	A	A	X	A	A	A
Thanol-R-650-X	F(3)	F	X	~	X	A	A	A
Thermanol 60	X	X	X	X	X	A	A	A
Toluene, Toluol	X	X	X	F	X	A	A	A
Transmission Oil	A	A	A	A	X	A	A	A
Tribol 1440	F(3)	F	X	X	X	A	A	A
Trichloroethylene	X	X	X	F	X	X	A	A
Trim-Sol	(3)	A	F	F	X	A	A	A
Turbinol 50, 1122, 1223	X	X	X	X	A(9)	A	A	A
Turpentine	X	X	X	F	X	A	A	A
Ucon Hydrolubes	(3)	A	F	F	A	A	A	A
UltraChem 215,230,501,751	X	X	X	F	X	A	A	A
Univis J26	A	A	A	A	X	A	A	A
Unleaded Gasoline	X(12)	X(12)	X(12)	X(12)	X(12)	A	A	A
Unocal 66/3 Mineral Spirits	(10)	(10)	(10)	(10)	X	A	A	A
Urea	F	F	F	A	F	F	~	F
Urethane Formulations	A	A	A	A	~	A	A	A
Van Straaten 902	A	A	A	A	X	A	A	A
Varnish	X	X	X	F	X	F	F	A
Varsol	F(3)	F	(10)	(10)	X	A	A	A
Versilube F44, F55	A	A	A	A	~	A	A	A
Vinegar	X	X	X	F	A	F	X	A
Vital 29, 4300, 5230, 5310	X	X	X	X	X	A	A	A
Volt Esso 35	A	A	A	A	X	A	A	A
Water	A	A	F	A	A	F	A	A
Water / Glycols	(3)	A	A	A	A	A	F	A
Xylene, Xylol	X	X	X	X	X	A	A	A
Zerol 150	A	A	A	A	X	A	A	A
Zinc Chloride	A	A	A	X	A	X	X	F
Zinc Sulfate	A	A	A	X	A	X	A	A

Chemical Compatibility Guide - Thermoplastic Hose & Tubing

Ratings Code:

- G** – Good to excellent. Little or no swelling, tensile or surface changes. Preferred choice.
- L** – Marginal or conditional. Noticeable effects but not necessarily indicating lack of serviceability. Further testing suggested for specific application. Very long-term effects such as stiffening or potential for crazing should be evaluated.
- P** – Poor or unsatisfactory. Not recommended without extensive and realistic testing.
- – Indicates that this was not tested.
- #** – For Teflon. Indicates good chemical resistance but potential for excessive permeation.

MATERIALS CODE FOR HOSE CORE TUBES		PARKER'S PART NUMBERS
H	Elastomeric Polyester	55FR, 53FR, 53LT, PSH, HPSH, 3PSH, 550H, 560, 561, 590, 593, 55LT, 530, 510B, 510C, 518C, 515H
N	Polymeric Flexible Nylon	540N, 520N, 580N, H580N, 588N, PDH, PTH, 573X, 575X, 573XL, HP, HP8, PFT, 1035HT, 901N, CNG, CPS, 570A
O	Flexible Polyolefin	540P, 1038, 1041
PV	Flexible Polyvinyl Chloride (PVC)	GPH, GPV
NC	Flexible Nylon Co-Polymer	510, 510A, 515A, MSH
TFE	Teflon PTFE	919, 929, 939/939B, 943B, 919U, 929BJ, 936/936B
PFX	Proprietary Elastomer	1035A
FEP	Teflon FEP	960/960W
MATERIALS CODE FOR HOSE COVERS		
U	Polyurethane	All except GPH, 55LT, 53LT, 518C, PFT, 510, and PTFE hoses
HF	Elastomeric Low Temperature Polyester	55LT, 53LT, 3CNGLT, 4CNGLT, 5CNGLT
PV	Flexible Polyvinyl Chloride (PVC)	GPH, GPV
OC	Polyolefin Copolymer	1038, 1041
PFX	Proprietary Elastomer	518C, 1035HT
N	Polymeric Flexible Nylon	PFT, 510
HFR	Flame Resistant Polyester	55FR, 53FR
UFR	Flame Resistant Urethane	3CNGFR, 4CNGFR, 5CNGFR
MATERIALS CODE FOR TUBING AND TRUE SEAL FITTING COMPONENTS		
PE	Low Density Polyethylene	E, EB; colors
HDPE	High Density Polyethylene	HDPE, GT
PP	Polypropylene	PP, PPB, PPC
N	Polymeric Flexible Nylon	NN, NB; colors, PFT
NR	Unplasticized Nylon	NNR, NBR
PV	Flexible Polyvinyl Chloride (PVC)	PV
U	Polyurethane	U
FRPE	Flame Resistant Polyethylene	FRPE
A	Acetal	TrueSeal Fittings
F	Kynar	TrueSeal Fittings
B-N	Buna N (Nitrile) O-Rings	O-Rings in TrueSeal and Fast & Tite
EPDM	Ethylene Propylene	O-Rings in TrueSeal and Fast & Tite
V	Viton O-Rings	O-Rings in TrueSeal and Fast & Tite
TFE	Teflon PTFE	TFE
FEP	Teflon FEP	FEP
PFA	Teflon PFA	PFA

Chemical Compatibility Guide - Thermoplastic Hose & Tubing (Cont'd)

Chemical	PE	HDPE	PP	N	NR	PV	U	FRPE	FEP	PFA	TFE
Acetone	P	L	G	G	G	P	P	L	G	G	G
Acetyl Bromide	L	L	L	P	P	P	-	-	-	-	-
Acetyl Chloride	L	L	L	P	P	P	-	-	G	G	G
Air	G	G	G	G	G	G	G	G	G	G	G
Alcohols	G	G	G	G	G	L	L	G	G	G	G
Aluminum Salts	G	G	G	G	G	G	G	G	-	-	-
Ammonia	G	G	G	G	G	G	G	L	-	-	-
Amyl Acetate	G	G	G	G	G	P	L	-	G	G	G
Aniline	L	G	L	P	P	P	P	-	G	G	G
Animal Oils (6)	P	L	L	G	G	G	G	-	-	-	G
Arsenic Salts	G	G	G	G	G	G	G	G	-	-	-
Aromatic Hydrocarbons	P	L	L	G	G	P	L	P	-	-	G
Barium Salts	G	G	G	G	G	G	G	G	-	-	-
Benzaldehyde	P	L	L	L	L	P	L	P	G	G	G
Benzene	P	L	L	G	G	P	L	P	G	G	G
Benzyl Alcohol	P	G	L	L	L	G	L	P	G	G	G
Bleaching Liquors	G	L	G	L	L	L	L	-	-	-	-
Boric Acid Solutions	G	G	G	G	G	G	G	G	G	G	G
Bromine	L	L	P	P	P	F	P	-	G	L	G
Butane (2)	L	G	G	G	G	L	P	-	#	#	#
Butanol	G	G	G	G	G	G	G	G	-	-	-
Butyl Acetate	G	G	L	G	G	P	L	G	G	G	G
Calcium Hypochlorite	L	L	P	P	L	L	P	L	G	G	G
Calcium Salts	G	G	G	G	G	G	G	G	-	-	-
Carbon Dioxide	G	G	G	G	G	G	G	G	#	#	#
Carbon Disulfide	L	L	L	L	L	P	L	-	#	#	#
Carbon Tetrachloride	P	P	L	L	L	L	P	P	G	G	G
Caustic Potash	G	G	G	G	G	L	G	-	G	G	G
Caustic Soda	G	G	G	G	G	L	G	-	G	L	G
Chloroacetic Acid	L	G	L	L	L	P	P	-	G	L	G
Chlorine (Dry)	L	L	L	P	P	G	P	-	#	#	#
Chlorine (Wet)	L	L	L	P	P	G	L	-	G	G	G
Chlorobenzene	P	L	L	L	L	P	L	P	G	G	G
Chloroform	P	L	P	P	P	P	P	P	G	G	G
Chromic Acid	L	L	L	P	P	G	P	-	L	G	G
Copper Salts	G	G	G	G	G	G	G	G	-	-	-
Cresol	P	L	L	P	P	L	P	P	G	G	G
Cyclohexanone	L	L	L	L	L	P	P	-	G	G	G
Ethers	L	L	P	G	G	L	P	-	G	G	G
Ethyl Acetate	G	G	G	G	G	P	L	-	G	G	G
Ethyl Alcohol	G	G	G	L	L	L	G	G	-	-	-
Ethylamine	L	G	L	L	L	P	L	-	-	-	-
Ethyl Bromide	P	L	L	L	L	P	-	P	-	-	-
Ethyl Chloride	P	L	P	L	L	P	-	P	G	G	G
Fatty Acids	L	L	L	G	G	L	L	P	G	G	G

Chemical Compatibility Guide - Thermoplastic Hose & Tubing (Cont'd)

Chemical	PE	HDPE	PP	N	NR	PV	U	FRPE	FEP	PFA	TFE
Ferric Salts	G	G	G	G	G	G	G	-	-	-	-
Formaldehyde	G	G	G	L	L	L	P	-	G	G	G
Formic Acid	G	G	G	P	P	G	P	G	G	G	G
Freon	L	L	L	G	G	P	L	-	#	#	#
Gasoline (2)	P	G	L	G	G	P	L	P	G	G	G
Glucose	G	G	G	G	G	G	G	G	G	G	G
Glycerin	G	G	G	G	G	G	L	G	G	G	G
Hydriodic Acid	L	G	G	P	P	G	-	-	-	-	-
Hydrochloric Acid. (Conc.)	L	G	G	L	L	L	P	-	G	L	G
Hydrochloric Acid. (Med. Conc.)	L	G	G	L	L	L	P	-	G	L	G
Hydrofluoric Acid	L	L	G	P	P	L	P	-	G	-	G
Hydrogen Peroxide (Conc)	L	G	L	L	L	L	G	-	-	-	-
Hydrogen Peroxide (Dil.)	L	G	L	G	G	G	G	-	-	-	-
Hydrogen Sulfide	G	G	G	G	G	G	P	-	G	G	G
Iodine	L	G	G	G	G	L	L	-	G	G	G
Kerosene (2)	L	L	L	G	G	L	L	-	G	G	G
Ketones	G	G	G	G	G	P	P	-	G	G	G
Lacquer Solvents	L	L	L	G	G	P	-	-	L	G	G
Lactic Acid	G	G	G	G	G	G	G	-	G	G	G
lead Acetate	G	G	G	G	G	G	G	-	G	G	G
Linseed Oil	L	G	G	G	G	L	G	-	G	G	G
Magnesium Salts	G	G	G	G	G	G	G	-	-	-	G
Naphtha	L	L	L	G	G	P	L	G	G	G	G
Natural Gas	L	L	L	G	G	G	G	-	2	2	2
Nickel Salts	G	G	G	G	G	G	G	-	-	-	-
Nitric Acid (Conc.)	P	L	P	P	P	L	P	G	L	L	G
Nitric Acid (Dil.)	P	G	L	L	L	G	P	P	L	L	G
Nitrobenzene	P	L	G	L	L	P	P	P	G	G	G
Nitrogen Oxides	L	L	G	L	L	G	-	-	-	-	-
Nitrous Acid	L	L	G	L	L	G	L	-	G	G	G
Oils (Animal and Mineral)	L	L	L	G	G	L	G	-	G	G	G
Oils (Vegetable)	L	L	L	G	G	L	G	-	G	G	G
Oxygen (5) (6)	G	G	G	G	G	G	G	G	G	G	G
Perchloric Acid	P	G	L	P	P	L	P	P	L	G	G
Phenols	P	G	G	P	P	L	P	P	-	-	G
Potassium Salts	G	G	G	G	G	G	G	G	-	-	-
Pyridine	L	L	L	L	L	P	P	-	G	G	G
Silver Nitrate	G	G	G	G	G	G	G	G	G	G	G
Soap Solutions	G	G	G	G	G	G	G	G	G	G	G
Sodium Salts	G	G	G	G	G	G	G	G	-	-	-
Stearic Acid	L	L	L	G	G	P	L	-	G	G	G
Sulfur Chloride	L	L	P	L	L	L	-	-	G	G	G
Sulfuris Acid (Conc.)	P	G	G	P	P	L	P	P	-	-	-
Sulfuris Acid (Dil.)	P	G	G	L	L	G	L	P	-	-	-
Sulfurous Acid	P	G	L	L	L	G	L	P	G	G	G

Chemical Compatibility Guide - Thermoplastic Hose & Tubing (Cont'd)

Chemical	PE	HDPE	PP	N	NR	PV	U	FRPE	FEP	PFA	TFE
Tannic Acid	G	G	G	G	G	G	P	-	G	G	G
Tanning Extracts	G	G	G	G	G	G	P	-	-	-	-
Titanium Salts	G	G	G	G	G	G	G	G	-	-	-
Toluene	P	L	P	G	G	P	L	P	G	G	G
Trichloroacetic Acid	L	L	L	P	P	P	P	-	-	-	-
Trichloroethylene	P	L	P	L	L	P	P	P	G	G	G
Turpentine	P	P	L	G	G	L	L	-	G	G	G
Urea	G	G	G	G	G	G	G	-	G	L	G
Uric Acid	G	G	G	G	G	G	G	-	G	G	G
Water (6)	G	G	G	G	G	G	G	G	G	G	G
Xylene	P	L	P	G	G	P	P	P	G	G	G
Zinc Chloride	G	G	G	G	G	G	G	-	G	L	G

Footnotes for Fluid Compatibility Guides: (1) The Fluid Compatibility Guides are simplified rating tabulations based on immersion tests at 75°F. Higher temperatures tend to reduce ratings. **Since final selection depends on pressure, fluid and ambient temperature and other factors not known to Parker Hannifin Co., no performance guarantee is expressed or implied.** Ratings do not imply compliance with specialized codes such as FDA, NSF, AGA or UL and do not cover possible fluid discoloration, taste or odor effects. For conveying foodstuffs use FDA sanctioned materials, and for potable water use NSF listed materials. For chemicals not listed, or for advice on particular applications, please consult Product Engineering, Parflex Div., Ravenna, Ohio. (2) Hose applications for these fluids must take into account legal and insurance regulations. This does not imply AGA or UL compliance. (3) Satisfactory at some concentrations and temperatures, unsatisfactory in others. (4) For high pressure gases, the cover should be pinpricked and the pressure must not be released quickly. Chain or restrain the hose to prevent personal injury in the event of damage or failure. (5) Chemical compatibility **does not** imply low permeation rates. Consult the Parker factory for a recommendation for your specific requirement. (6) Does not imply NSF or FDA compliance. (7) Chemical compatibility does not imply acceptability for use in **airless paint spray** applications. These applications require a special **conductive** hose. (8) Teflon is chemically compatible with Anhydrous Ammonia. However, extreme caution must be used in dealing with Anhydrous Ammonia since it can cause severe injuries such as blindness and/or chemical burns.

How to Order Hose Only

When ordering hose, specify complete information as illustrated below.
Examples: 50 Ft. 201-8 (bulk hose) 5 pc. 201-8-120 inches (exact cut lengths)

Hose Description

Quantity
50 Feet

Specify in feet, total length of hose required when ordering bulk hose.
-OR-
Specify number of pieces if cut lengths are required.

Hose Type
201

Size of Hose
-8

-3	-12
-4	-16
-5	-20
-6	-24
-8	-32
-10	-40
	-48

Cut Length in Inches
Always specify in inches.

Use only if exact cut lengths are required.

How to Order Fittings Only

Fittings are ordered by part number as listed in this catalog.
Example: 20630-12-12C

Fittings Part Number

Type	Configuration	Series
2	06	30

1 = Crimp fitting
2 = Reusable fitting
3 = Push-Lok fitting

Fitting end configuration code listing is in Section G.
A "06" end is a Female JIC 37°-Swivel-Straight.

FittingConnectionSize
-12

Size of Hose
-12

See above list.

Fitting Material
C

No suffix = Steel
B = Brass
C = 316 Stainless Steel

How to Order Components for Reusable Fittings

Sockets and nipples can be ordered separately and will always be shipped separately as follows:
Example: 20630-12-12C316

Socket Part Number is 20030-12C

Type	Configuration	Series
2	00	30

"2" designates reusable type fitting.
"00" designates socket only

20 for 20 Series fitting
21 for 21 Series fitting
20 for 22 Series fitting
23 for 23 Series fitting
30 for 30 Series fitting
34 for 34 Series fitting
42 for 42 Series fitting
74 for 74 Series fitting

Size of Hose
-12

See above list.

Fitting Material
C

No suffix = Steel
B = Brass
C = 316 Stainless Steel

Nipple Part Number is 0630-12-12C

Configuration	Series
06	30

Fitting end configuration code listing is in Section G.
A "06" end is a Female JIC 37°-Swivel-Straight.

20 for 20 Series fitting
21 for 21 Series fitting
22 for 22 Series fitting
23 for 23 Series fitting
30 for 30, 34 & 42 Series fittings
74 for 74 Series fitting
88 for 88 Series fitting

Size of Hose
-12

See above list.

Fitting Material
C

No suffix = Steel
B = Brass
C = Stainless Steel

How to Order Parker Hose Assemblies with Parkrimp (crimp) Fittings

The following example illustrates how to order a hose assembly using 1/2" I.D. 301 hose, with 1/2" female SAE (JIC) 37° swivel straight on one end and a 1/2" female SAE (JIC) 37° - swivel - 90° elbow on the other end. Overall length is 24".

Example: F3010639080808-24"

Hose Assembly Part Number

Prefix F	Hose Type 301	End Configuration		Fittings Connection Size		Hose Size 08	Fittings Material	Overall Length -24	Displacement Angle
		1st End 06	2nd End 39	1st End 08	2nd End 08				

Select data from above by referencing its corresponding shaded area in the How to Order Hose Only and/or How to Order Fitting Only section.

When adapters, firesleeves or any combination are required as component parts of the hose assembly, they must be specified by part number.
Examples: · F3010639080808-24" with full length Spring Guard is F3010639080808-24" with SG-097 - 18.75" (The SG length equals the hose assembly Over All Length (OAL) less fittings overall length - the fitting "A" dimension).
 · F3010639080808-24" with 0107-8-6 adapter.

Expressed in INCHES. When expressed in MILLIMETERS, note length followed by "mm" (eg. 610 mm). If elbow fittings are used, overall length is measured from centerline of fitting seat.

Specified only if two elbow fittings are used. Starting with either end as the far end, measured the angle clockwise to describe the displacement of the near end.

The Hose Assembly Part Number is F3010639080808-24".
 The Hose Part Number is 301-8.
 The Fitting Part Number - 1st end configuration - is 10643-8-8.
 The Fitting Part Number - 2nd end configuration - is 13943-8-8.

How to Order Parker Hose Assemblies with Reusable Fittings

The following example illustrates how to order a hose assembly using 13/32" I.D. 201 hose, with 3/8" male pipe fitting on one end and a 3/8" female SAE (JIC) 37° swivel-straight on the other end. Fittings are non-mandrel style. Overall length is 24".

Example: 2010106060608-24"

Hose Assembly Part Number

Prefix	Hose Type 201	End Configuration		Fittings Connection Size		Hose Size 08	Fittings Material	Overall Length -24	Displacement Angle
		1st End 01	2nd End 06	1st End 06	2nd End 06				

Select data from above by referencing its corresponding shaded area in the How to Order Hose Only and/or How to Order Fitting Only section.

When adapters, firesleeves or any combination are required as component parts of the hose assembly, they must be specified by part number.
Examples: · 2010106060608-24" with full length Spring Guard is 2010106060608-24" with SG-097 - 18.80" (The SG length equals the hose assembly Over All Length (OAL) less fittings overall length - the fitting "A" dimension).
 · 20101060606-224" with 0107-8-6 adapter.

Expressed in INCHES. When expressed in MILLIMETERS, note length followed by "mm" (eg. 610 mm). If elbow fittings are used, overall length is measured from centerline of fitting seat.

Specified only if two elbow fittings are used. Starting with either end as the far end, measured the angle clockwise to describe the displacement of the near end.

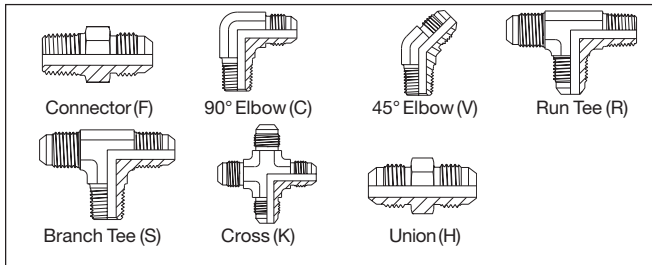
The Hose Assembly Part Number is 2010106060608-24".
 The Hose Part Number is 201-8.
 The Fitting Part Number - 1st end configuration - is 20120-6-8.
 The Fitting Part Number - 2nd end configuration - is 20620-6-8.

How to Order Adapters

Ordering by Tube Fitting Division Part Number

Parker hose adapter part numbers are made up of three basic components:

Base Letters: The base letters indicates the shape of the adapter. Examples of the most popular shapes are shown below.



Dash Size: This is one or more numbers preceding the base letters and is used to indicate end sizes in (1/16) of an inch. **Note:** The Tube Fitting Division part numbers for 37° adapters **do not** reflect the same size sequences used for the Hose nomenclature.

The flared end is referenced first in Tube Fitting nomenclature. The flared end is referenced second in Hose nomenclature.

Example: Tube Fitting Division (TFD) = Hose Division (HPD)
8-FTX-S = 0103-6-8

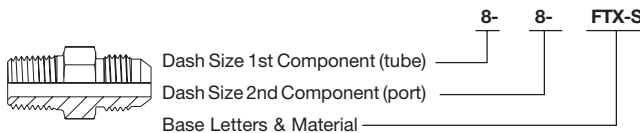
Material Design: Materials are indicated by a letter suffix added at the end of the part number according to the following code:

Steel (Zinc plated)	S
Brass (37° only)	B
Stainless Steel	SS

Note: Material designations **must** be made when ordering T.F. parts.

Example:

1. **8-FTX-S** – Straight adapter, male SAE (JIC) 37° flare to male pipe (steel)



37° Tube Fitting part numbers use only **one** size or dash number for the following sizes: (2, 3, 4, 5, 6, 8, 10, 14). These sizes are transposed as hose numbers in the chart at right.

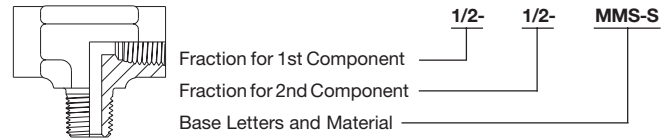
When ordering Tube Fitting Division pipe adapters, the size is expressed in complete fractions as 1/4" x 1/8".

The size sequences are the same as the Hose nomenclature but precede the base letters. A single size reference means that all ends are the same size and the fraction will only appear **once**.

TFD Flare	HPD Pipe	HPD Flare
2	2	-2
3	2	-3
4	2	-4
5	2	-5
6	4	-6
8	6	-8
10	8	-10
14	12	-14

Example:

1/2-MMS-S – Female pipe tee with male pipe branch (steel).



Ordering by Hose Division Part Number

Parker hose adapter part numbers are made up of three basic components:

Base Number: The base number indicates the thread styles and configuration of the adapter by combining the appropriate two digit end configuration numbers. A list of the most popular ends is shown on the following page.

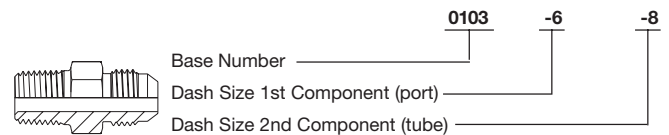
Dash Size: This is one or more numbers following the base number, used to indicate end sizes in sixteenths (1/16) of an inch. The first dash size refers to the first component of the base number and the second dash refers to the second component.

Material Design: Materials are indicated by a letter suffix added at the end of the part number according to the following code:

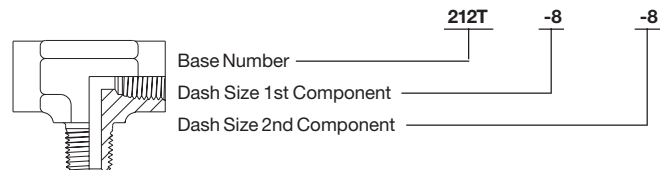
Steel (Zinc plated)	No suffix
Brass	B
Stainless Steel	C

Examples:

1. **0103-6-8** – Straight adapter, male pipe to male SAE (JIC) 37° flare (steel)



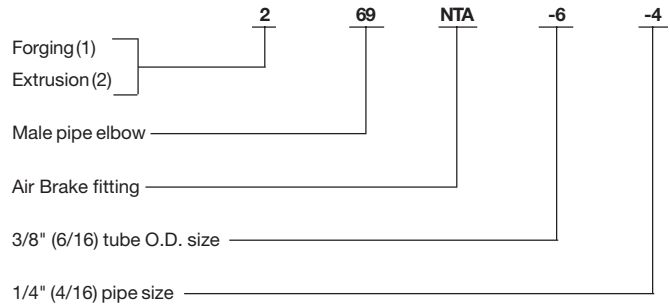
2. **212T-8-8** – Female pipe tee with male pipe branch (steel).



How to Order Brass Fittings

Brass Fittings are ordered by part number. Part numbers are constructed from symbols that identify the style and size of the fitting. The first series of numbers and letters identifies the style and type fitting. The second series of numbers describes the size. Tube sizes are determined by the numbers of sixteenths of an inch in the tube O.D.

Example: 269NTA-6-4



How to Order Pneumatic Quick Couplings

When ordering Parker coupler bodies and nipples, please state the part number of each type of coupler body and each type of nipple desired. List coupler bodies and nipples as separate items rather than in combinations. Be sure to double check thread or hose sizes of items required.

Many of Parker's coupling products are available with unique non-standard options well suited to very specific applications. Examples of unusual end use applications might include: high temperatures (above 250° F), extremely caustic/corrosive solutions passing through the coupling, external/environmental corrosion situations, or other high wear and tear situations such as dragging the product along the ground. It is always recommended that the Quick Coupling Division be contacted with any questions concerning specific product application needs.

Typically, a prefix or suffix is added to the base part number to specify a non-standard O-ring seal, or special option such as a sleeve lock. The list at right illustrates the designations.

Please Note: Certain couplings series have additional "Special Order Information" which should be referred to in ordering those products. If applicable to the product, "Special Order Information" is found next to the Features and Specifications charts.

Coupling Material	
Coupler	<ul style="list-style-type: none"> Prefix "B" for Brass - available for 3/8 & 1/2" body sizes only Suffix "N" for Stainless Steel springs, locking balls and brass valves. (10, 20, 30, 50, and 70 series only)
Nipple	<ul style="list-style-type: none"> Prefix "B" for Brass (Standard material is stainless steel)

Seals*	Material	Suffix
Standard	Buna-N	none
Optional	Ethylene Propylene	W
Optional	Viton	Y
Optional	Neoprene	Z

Operation
<ul style="list-style-type: none"> Suffix "SL" for coupler sleeve-lok (10, 20, 50, and 70 series only) Suffix "R" for grip-ring sleeve (10, 20, 50, and 70 series only)

*To help select proper materials, contact your Parker Quick Coupling Distributor.

How to Order Hydraulic Quick Couplings

When ordering Parker coupler bodies and nipples, please state the part number of each type of coupler body and each type of nipple desired. List coupler bodies and nipples as separate items rather than in combinations. Be sure to double check thread or hose sizes of items required.

Many of Parker's coupling products are available with unique non-standard options well suited to very specific applications. Examples of unusual end use applications might include: high temperatures (above 250° F), extremely caustic/corrosive solutions passing through the coupling, external/environmental corrosion situations, or other high wear and tear situations such as dragging the product along the ground. It is always recommended that the Quick Coupling Division be contacted with any questions concerning specific product application needs.

Typically, a prefix or suffix is added to the base part number to specify a non-standard O-ring seal, or special option such as a sleeve lock. The list at right illustrates the designations.

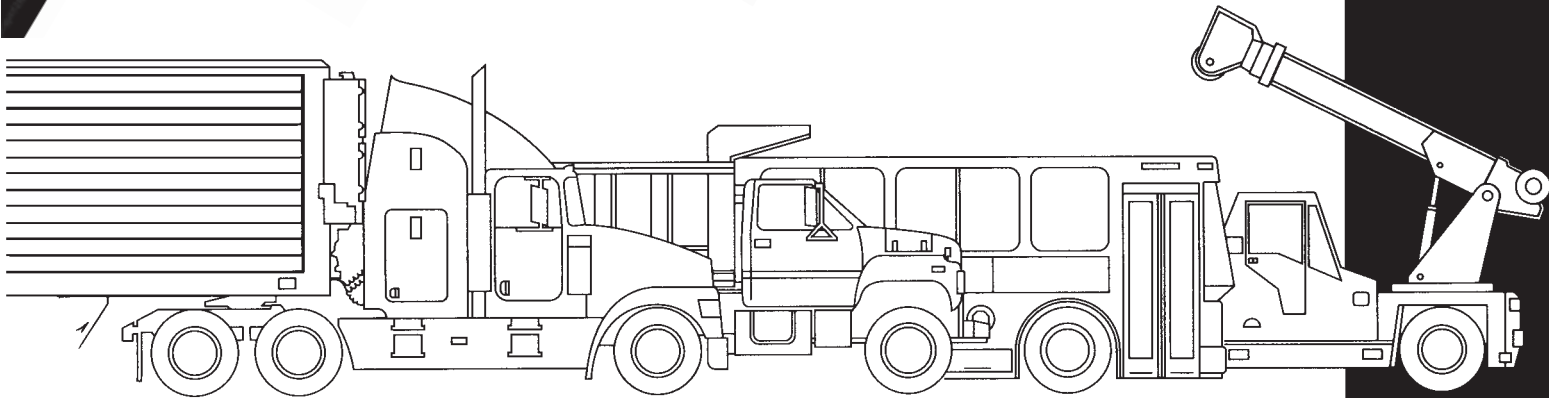
Please Note: Certain couplings series have additional "Special Order Information" which should be referred to in ordering those products. If applicable to the product, "Special Order Information" is found next to the Features and Specifications charts.

Coupling Material
Coupler <ul style="list-style-type: none"> • Prefix "B" for Brass – available for 3/8" & 1/2" body sizes only • Suffix "N" for Stainless Steel springs, locking balls and brass valves. (10, 20, 30, 50, and 70 series only)
Nipple <ul style="list-style-type: none"> • Prefix "B" for Brass (Standard material is steel)

Seals*	Material	Suffix
Standard	Buna-N	none
Optional	Ethylene Propylene	W
Optional	Viton	Y
Optional	Neoprene	Z

Operation
<ul style="list-style-type: none"> • Suffix "SL" for coupler sleeve-lok (10, 20, 50, and 70 series only) • Suffix "R" for grip-ring sleeve (10 and 20 series only)

*To select proper seal materials, see Fluid Compatibility Chart in this section or contact your Parker Quick Coupling Distributor.



Chemical Compatibility Guide	pg. 18
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General Description	pg. A2*
*See page 31 of the introductory section for “How to Order” information	
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Air Brake, Refrigerant & LPG Low Pressure Hoses	
<ul style="list-style-type: none"> • 213 PKR® SAE J1402 Type AI – use 21, 23 and 26 Series fittings (Group XIII fittings) pg. A8 • 235 SAE J51 Type D Refrigerant and Hydraulic – use 20, 22 and 26 Series fittings (for sizes -16 only) pg. A9 • 244 SAE J2064 Type B, Class 1. Use 26 Series crimp fittings pg. A10 • 273 SAE J1402 Type A pg. A11 • 285 SAE J2064 Type C. Use with 26 Series crimp fittings or 21 or 23 Series reusable fittings pg. A11 • 293 SAE J1402 Type AI – use 21, 23 and 26 Series fittings pg. A13 • SS23CG LPG and CNG (CGA Type III) – use 26 Series fittings pg. A31 • SS25UL LPG Service to UL Standard 21 – use 20 or 22 Series fittings pg. A31 	
<hr/>	
Hydraulic Hose/Low & Medium Pressure	
<ul style="list-style-type: none"> • 201/261 SAE 100R5 – use 20, 22 and 26 Series fittings pg. A7 • 206 PKR® SAE 100R5 – use 20, 22 and 26 Series fittings pg. A7 • 221FR SAE J1527 Marine Fuel & Engine Hose – use 20 and 22 Series fittings pg. A8 • 225 SAE 100R5 – use 20, 22 and 26 Series fittings pg. A9 • 266 PKR® SAE J1402 Type All – use 20, 22 and 26 Series fittings pg. A10 • 421 SAE 100R1 AT – use 42 or 43 Series fittings pg. A17 • 421HT SAE 100R1 AT High Temperature Hose – use 43 Series fittings pg. A17 • 421WC SAE 100R1 AT Wire Cover Hose – use 43 Series fittings pg. A18 • 424 SAE 100R1 Type AT – use 43 Series fittings pg. A18 • 482ST EN 853 Type 1SN – use 42 or 43 Series fittings pg. A22 • 482TC EN 853 Type 1SN – use 42 or 43 Series fittings pg. A22 • 601 SAE 100R3 – use 43 Series fittings pg. A23 • 604 Water Hose – use 43 Series fittings pg. A23 • 811 SAE 100R4 – use 81, 88 or TB Series fittings pg. A30 • 881 SAE 100R4 - use 88 or 43 Series fittings pg. A30 	
<hr/>	
Hydraulic Hose/High Pressure	
<ul style="list-style-type: none"> • AX Exceeds SAE 100R1AT Hydraulic Hose - No Skive pg. A12 • BXX SAE 100R2 Type AT Hydraulic Hose - No Skive pg. A12 • 301 SAE 100R2 Type AT – use 30 or 43 Series fittings pg. A13 • 301LT SAE 100R2 AT Low Temperature – use 30 or 43 Series fittings pg. A14 • 304 For Phosphate Ester fluids – use 43 Series fittings pg. A14 	

- **341** SAE 100R9 AT – use 34 or 43 Series fittings pg. A15
- **351ST** Abrasion Resistant – use 43 Series fittings pg. A15
- **351TC** Abrasion Resistant – use 43 Series fittings pg. A16
- **381** SAE 100R2 Type AT – use 30 or 43 Series fittings pg. A16
- **431 Compact®** SAE 100R16 – use 42 or 43 Series fittings pg. A19
- **436 Compact®** SAE 100R16 – use 42 or 43 Series fittings pg. A19
- **451ST** Abrasion Resistant – use 43 Series fittings pg. A20
- **451TC** SAE 100R17 Abrasion Resistant – use 42 Series (for sizes -6 and -8 only) or 43 Series fittings pg. A20
- **471ST** EN 857 Type 2SC – use 43 Series fittings pg. A21
- **471TC** SAE 100R17 – use 43 Series fittings pg. A21

Hydraulic Hose/Very High Pressure

- **701** EN 856 Type 4SP – use 70 Series fittings pg. A24
- **711** SAE 100R11 – use 71 Series fittings pg. A24
- **731** EN 856 Type 4SH – use 73 Series fittings pg. A25
- **77C** SAE 100R12 - use 71 Series fittings pg. A25
- **774** For Phosphate Esters - use 71 Series fittings pg. A27
- **772ST** SAE 100R12 - use 71 Series fittings pg. A26
- **772TC** SAE 100R12 - use 71 Series fittings pg. A26
- **78C** SAE 100R13 - use 78 Series fittings pg. A27
- **782ST** SAE 100R13 - use 78 Series fittings pg. A28
- **782TC** SAE 100R13 - use 78 Series fittings pg. A28
- **792ST** SAE 100R13 - use 79 Series fittings pg. A29
- **792TC** SAE 100R15 - use 79 Series fittings pg. A29

Miscellaneous

- **H53 Lined Hose Clamp** for silicone hoses pg. A33
- **88 HC-H Low Pressure Hose Clamp** for use on 811 and 881 hose pg. A33

Push-Lok Low Pressure Hose (use 82 Series Fittings)

- **801** General Purpose pg. A4
- **804** Air and Water pg. A4
- **821** General Purpose pg. A5
- **821FR** General Purpose Fire Resistant pg. A5
- **831** General Purpose pg. A6
- **836** General Purpose PKR® pg. A6

Silicone Low Pressure Coolant and Heater Hose

- **848** Nylon Fiber Braid Reinforcement pg. A32
- **4241** One-Ply Reinforcement pg. A32
- **4244** Four-Ply Reinforcement pg. A33

General Purpose Hose

801

One textile braid, 6 colors. For air and water. Use with “Push-Lok” 82 Series fittings.



Construction: Synthetic rubber tube; one textile braid reinforcement; synthetic rubber cover (MSHA accepted if requested in the purchase order). Furnished in gray, red, yellow, black, green or blue.

Applications and Temperature Range: Widely used for shop air systems and general industrial, maintenance and automotive applications. Low pressure service hose for use with:

- Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air up to +158°F (+70°C).

Fittings: Compatible with “Push-Lok” 82 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
250	1000	2-1/2	0.50	1/4	801-4
250	1000	3	0.63	3/8	801-6
250	1000	5	0.78	1/2	801-8
250	1000	6	0.91	5/8	801-10
250	1000	7	1.03	3/4	801-12
175	700	10	1.28	1	801-16

Specify color when ordering. Example: 801-6-Blue. If no color specified 801 Gray will be supplied. Not recommended for any fuel.

Air and Water Hose

804

Use with “Push-Lok” 82 Series fittings.



Construction: EPDM synthetic rubber tube; one textile braid or a two spiral textile reinforcement; black, EPDM synthetic rubber cover.

Applications and Temperature Range: 804 Push-Lok Hose can also be used as a low pressure drain or return hose line.

- Phosphate ester fluids up to +176° C (+80° C).
- Water, water/glycol and water/oil emulsion hydraulic fluids up to +200° F (+93° C).
- Air up to +158° F (+70° C).

Fittings: Compatible with “Push-Lok” 82 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
125	500	2-1/2	0.50	1/4	804-4
125	500	3	0.63	3/8	804-6
125	500	5	0.78	1/2	804-8
125	500	7	1.03	3/4	804-12

General Purpose Hose

821

One textile braid, textile cover. For air and water. Use with "Push-Lok" 82 Series fittings.



Construction: Synthetic rubber tube; one textile braid reinforcement; textile braid cover.

Applications and Temperature Range: Widely used for shop air systems and general industrial, maintenance and automotive applications.

- Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air up to +158°F(+70°C).

Fittings: Compatible with "Push-Lok" 82 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	1400	2-1/2	0.50	1/4	821-4
300	1200	3	0.63	3/8	821-6
300	1200	5	0.78	1/2	821-8
250	1000	6	0.91	5/8	821-10
250	1000	7	1.03	3/4	821-12

Not recommended for any fuel.

General Purpose Hose Fire Resistant Fiber Covered

821FR

Use with "Push-Lok" 82 Series fittings.



Construction: Synthetic rubber tube; one textile braid reinforcement; fire resistant fiber cover. Colors: Furnished in black, blue, brown, green or white cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with "Push-Lok" 82 Series fittings.

Maximum Working Pressure (P.S.I.)	Maximum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	1400	2-1/2	0.50	1/4	821FR-4
300	1200	3	0.63	3/8	821FR-6
300	1200	5	0.78	1/2	821FR-8
250	1000	6	0.91	5/8	821FR-10
250	1000	7	1.03	3/4	821FR-12

General Purpose Hose

831

One textile braid, rubber cover hose for air and water. Use with "Push-Lok" 82 Series fittings.



Construction: Synthetic rubber tube; one textile braid reinforcement; synthetic rubber cover (MSHA accepted if requested in the purchase order). Furnished in black, blue, green, red, gray, and yellow.

Applications and Temperature Range: Widely used for shop air systems and general industrial, maintenance and automotive applications.

- Petroleum based hydraulic fluids and lubricating oils, and antifreeze solutions within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C)

Fittings: Compatible with "Push-Lok" 82 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	1400	2-1/2	0.50	1/4	831-4
300	1200	3	0.63	3/8	831-6
300	1200	5	0.78	1/2	831-8
300	1200	6	0.91	5/8	831-10
300	1200	7	1.03	3/4	831-12

NOTE: Push-Lok hose is not recommended for cooling lines in air conditioners and heat pumps, nor hydraulic applications on the pressure side of hydraulic system where extreme pulsations are encountered.

Not recommended for any fuel.

General Purpose Hose PKR®

836

One textile braid, blue cover hose for air and water. Use with "Push-Lok" 82 Series fittings.



Construction: **PKR**® elastomer tube; one textile braid reinforcement; MSHA accepted blue synthetic rubber cover with embossed layline.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -55°F to +302°F (-48°C to +150°C).
- Water, water/glycol and water/oil emulsion hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with "Push-Lok" 82 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
250	1000	2-1/2	0.50	1/4	836-4
250	1000	3	0.63	3/8	836-6
250	1000	5	0.78	1/2	836-8
250	1000	6	0.91	5/8	836-10
250	1000	7	1.03	3/4	836-12+

+ Non-standard.

NOTE: Push-Lok hose is not recommended for cooling lines in air conditioners and heat pumps, nor hydraulic applications on the pressure side of hydraulic system where extreme pulsations are encountered.

Not recommended for any fuel.

PKR is a Parker Trademark.

**SAE 100R5 SAE J1402 All
D.O.T. FMVSS 106 All -
Air Brake Hose**

201 / 261

One wire braid, textile cover hose for engine and air brake requirements. SAE J 1402 All. Use 20 Series, 22 Series, or Parkrimp 26 Series fittings.



Construction: Synthetic rubber tube, a textile inner braid, a high tensile steel wire braid reinforcement, textile braid cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude fuel, oils and anti-freeze solutions within a temperature range of -40°F to +302°F (-40°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Parker HPD Catalog 4400, Section G, for the reduced maximum working pressure.
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 26 Series fittings and Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	3	0.52	3/16	201/261-4
3000	12000	3-3/8	0.58	1/4	201/261-5
2250	9000	4	0.68	5/16	201/261-6
2000	8000	4-5/8	0.77	13/32	201/261-8
1750	7000	5-1/2	0.92	1/2	201/261-10
1500	6000	6-1/2	1.08	5/8	201/261-12
800	3200	7-3/8	1.24	7/8	201/261-16
625	2500	9	1.50	1-1/8	201/261-20
500	2000	10-1/2	1.75	1-3/8	201/261-24
350	1400	13-1/4	2.22	1-13/16	201/261-32
350	1400	24	2.88	2-3/8	201-40
200	800	33	3.56	3	201-48

Sizes -4 through -12 DOT FMVSS 106-74 Type All and SAE J1402 Table All
 Sizes -4 through -32 exceed performance requirements of SAE 100R5.

Usage at temperatures exceeding +200°F is based on reduced working pressure.

**SAE 100R5 SAE J1402 All
D.O.T. FMVSS 106 All -
Air Brake Hose**

206 PKR®

One wire braid, blue textile cover hose, PKR® inner tube. For high temperature engine and air brake requirements. SAE J1402 All. Use 20 Series, 22 Series, or Parkrimp 26 Series fittings.



Construction: PKR® elastomer tube; textile inner braid, high tensile steel wire braid reinforcement; blue textile braid cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude and fuel oils and anti-freeze solutions within a temperature range of -55°F to +302°F (-48°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Parker HPD Catalog 4400, Section G, for the reduced maximum working pressure.
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	3	0.52	3/16	206-4
3000	12000	3-3/8	0.58	1/4	206-5
2250	9000	3-1/2	0.68	5/16	206-6
2000	8000	3-1/2	0.77	13/32	206-8
1750	7000	4	0.92	1/2	206-10
1500	6000	4	1.08	5/8	206-12
800	3200	4	1.23	7/8	206-16
625	2500	5-1/2	1.50	1-1/8	206-20
500	2000	7-1/2	1.75	1-3/8	206-24
350	1400	13-1/4	2.22	1-13/16	206-32
350	1400	24	2.88	2-3/8	206-40

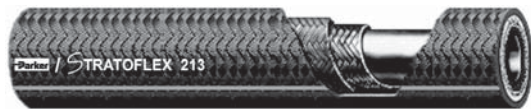
Sizes -4 through -12 DOT FMVSS 106-74 Type All and SAE J1402
 Table All Sizes -4 through -32 exceed performance requirements of SAE 100R5.

PKR is a registered trademark of Parker Hannifin Corp.

**SAE J1402-AI
D.O.T. FMVSS 106 AI -
Air Brake Hose**

213 PKR®

One wire braid, PKR® inner tube, textile cover, green stripe. For high temperature engine and brake service. SAE J1402 AI. Use Parkrimp 26 Series or Field Attachable 21 Series or 23 Series fittings.



Construction: PKR® elastomer tube; textile inner braid, high tensile steel wire braid reinforcement; black textile braid cover identified by two longitudinal green stripes.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude, fuel oils and anti-freeze solutions within a temperature range of -40°F to +302°F (-40°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Parker HPD Catalog 4400, Section G, for the reduced maximum working pressure.
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 21 Series and 23 Series fittings.

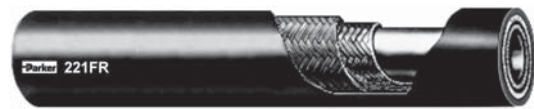
Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
2000	8000	3/4	0.49	3/16	213-4
1500	6000	1	0.55	1/4	213-5
1500	6000	1-1/4	0.62	5/16	213-6
1250	5000	1-3/4	0.74	13/32	213-8
1000	4000	2-1/4	0.83	1/2	213-10
750	3000	2-3/4	0.96	5/8	213-12
400	1600	3-1/2	1.21	7/8	213-16
300	1200	4-1/2	1.49	1-1/8	213-20
300	1200	7-1/2	1.72	1-3/8	213-24
200	800	14	2.14	1-13/16	213-32

DOT FMVSS 106-74, Type AI; SAE J1402 Table AI (previous Type E); and The Maintenance Council of ATA (RCC) RE-307.

**Fire Resistant Marine Fuel & Engine Hose -
Meets SAE J1527 Type A
Class 1, SAE J1942**

221FR

Fuel and oil-resistant synthetic rubber hose, one braid of high-tensile steel wire, and oil, weather and fire resistant synthetic blue, rubber cover. Use 20 or 22 Series fittings.



Construction: Fuel and oil-resistant synthetic rubber tube, one braid of high-tensile steel wire, and oil, weather and fire resistant synthetic blue, rubber cover. Layline is embossed for permanent identification.

Temperature Range:

- Gasoline, ethanol blends, diesel fuels, petroleum-base hydraulic fluids and lubricating oils within a temperature range of -4°F to +212°F (-20°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).

Meets Class 1 permeation requirements with gasoline and gasoline/ethanol blend and 2-1/2 minute fire test. USCG accepted for commercial and recreational vessel applications.

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
500	2000	1	0.58	1/4	221FR-5
500	2000	1-1/4	0.68	5/16	221FR-6
500	2000	1-3/4	0.77	13/32	221FR-8
500	2000	2-1/4	0.92	1/2	221FR-10
500	2000	2-3/4	1.08	5/8	221FR-12
500	2000	3-1/2	1.23	7/8	221FR-16

Hydraulic Hose SAE 100R5, MIL-H-24135/10

225

One wire braid with rubber cover hose for medium pressure service. Replaces 221. Use 20 Series, 22 Series, or Parkrimp 26 Series fittings.



Construction: Synthetic rubber tube; textile braid, high tensile steel wire braid reinforcement, textile braid; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude and fuel oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and ater/glycol hydraulic fluids and anti-freeze solutions up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air applications above 250 PSI (1,7 MPa), the hose cover should be pin-pricked.

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	3	0.52	3/16	225-4
3000	12000	3-3/8	0.58	1/4	225-5
2250	9000	4	0.68	5/16	225-6
2000	8000	4-5/8	0.77	13/32	225-8
1750	7000	5-1/2	0.92	1/2	225-10
1500	6000	6-1/2	1.08	5/8	225-12
800	3200	7-3/8	1.23	7/8	225-16
625	2500	9	1.5	1-1/8	225-20
500	2000	10-1/2	1.75	1-3/8	225-24
350	1400	13-1/4	2.22	1-13/16	225-32

Usage at temperatures exceeding +200°F is based on reduced working pressure.

Refrigerant and Hydraulic Hose - SAE J51 Type D

235

One textile braid, nylon inner tube hose for Refrigerant 12, 13, 22, 134a, 502, and low pressure hydraulic SAE J51 Type D. Use 20 Series, 22 Series or Parkrimp 26 Series fittings.



Construction: Nylon tube; one ply or more of textile braid reinforcement; synthetic rubber cover pin-pricked to prevent formation of blisters.

Temperature Range:

- Refrigerant 12, 13, and 22; and petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Phosphate ester based hydraulic fluids within a temperature range of -40°F to +93°F (-40°C to +125°C).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air up to +158°F (+70°C).

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	1,750	7 3/8	1.23	7/8	235-16

**Air Conditioning and Refrigerant Hose
SAE J2064 Type B, Class 1**

244

Large-bore synthetic rubber hose, butyl synthetic rubber inner tube, a single wire braid reinforcement, and an oil-, mildew-, and weather-resistant synthetic rubber impregnated black fiber cover. Designed especially for bus and transit applications. Uses 26 Series Crimp fittings.



Construction: The hose shall consist of an inner tube of Butyl synthetic rubber, a single wire braid reinforcement and an oil, mildew and weather resistant, synthetic rubber impregnated, black, fiber cover. The hose shall be free of any substance which may contaminate the refrigerant system.

Temperature Range:

- Refrigerant 134a within a temperature range of -30°C to +125°C (-22°F to +257°F).

Fittings: Compatible with Parkrimp 26 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	1750	7-1/2	1.23	7/8	244-16
350	1750	9	1.50	1-1/8	244-20
350	1750	10-1/2	1.75	1-3/8	244-24

SAE 100R5 SAE J1402 All D.O.T. FMVSS 106 All - Air Brake Hose

266 PKR®

One textile braid, PKR® inner tube. For high temperature engine and air brake requirements. Use 20 Series, 22 Series, or Parkrimp 26 Series fittings.



Construction: PKR® elastomer tube; textile inner braid, high tensile steel wire braid reinforcement; black textile braid cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils, diesel fuels, crude, fuel oils and anti-freeze solutions within a temperature range of -55°F to +302°F (-48°C to +150°C). The maximum working pressures shown in the table are for service up to maximum temperature of +212°F (+100°C). For use at higher temperatures, consult the pressure/temperature curve in Parker HPD Catalog 4400, Section G, for the reduced maximum working pressure.
- Water, water/oil emulsion, and water/glycol hydraulic fluids solutions up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
2000	8000	3/4	0.52	3/16	266-4
1500	6000	1	0.58	1/4	266-5
1500	6000	1-1/4	0.68	5/16	266-6
1250	5000	1-3/4	0.77	13/32	266-8
1250	5000	2-1/4	0.92	1/2	266-10
750	3000	2-3/4	1.08	5/8	266-12
400	1600	3-1/2	1.23	7/8	266-16
300	1200	4-1/2	1.50	1-1/8	266-20
250	1000	5-1/2	1.75	1-3/8	266-24

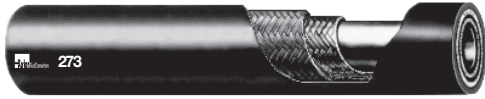
Meets DOT FMVSS106-74, Type All.

Consult temperature curve in Section G of the Hose Product Division 4400 Catalog, February 2000.

SAE J1402 A - Low Pressure

273

One or more textile braids or spirals with rubber cover hose for air brake systems.



Construction: Synthetic rubber tube reinforced with one or more layers of a fabric braid or spiral reinforcement. Cover is abrasion-, oil- and age-resistant synthetic rubber.

Applications and Temperature Range: Air brake systems within a temperature range of -40°F to +212°F (-40°C to +100°C).

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
225	900	1 1/2	0.625	1/4	273-4
225	900	1 3/4	0.750	3/8	273-6
225	900	2	0.875	1/2	273-8
225	900	2 1/2	1.063	5/8	273-10

Meets or exceeds the requirements of SAE H1402 Table A and DOT FMVSS 106-74, Type AI or All.

Consult temperature curve in Section G of the Hose Products Division 4400 Catalog, February 2000.

Air Conditioning and Refrigerant Hose SAE J2064 Type C, Class 1

285

Fabric braid reinforcement, nylon barrier, moisture and ozone resistant elastomeric cover. Use 26 Series Crimp fittings, or 21 or 23 Series Reusable fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: The hose has a nylon barrier between two elastomeric layers, a fabric braid reinforcement and a heat, moisture and ozone resistant elastomer cover.

Temperature Range:

- Refrigerant 12, 134a, and 22 within a temperature range of -22°F to +257°F (-30°C to +125°C).

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 21 Series and 23 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
500	2500	1	0.49	3/16	285-4
500	2500	1-1/2	0.62	5/16	285-6
500	2500	2	0.74	13/32	285-8
500	2500	2-1/2	0.83	1/2	285-10
500	2500	3	0.96	5/8	285-12

**Hydraulic Hose - No Skive
Exceeds SAE 100R1 Type AT**

AX



Construction: Neoprene inner tube; one braid of high tensile steel wire reinforcement; oil and weather resistant MSHA approved synthetic rubber cover.

Application and Temperature Range: Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C). More flexible, higher Working Pressure, and smaller diameter than SAE 100R1. **SAE/USCG Marine Listed.**

Water, water/glycol, and water/oil emulsion hydraulic fluids up to 185°F (85°C).

Air up to +158°F (+70°C).

For air above 250 psi (1,5 MPa), the cover should be pinpricked.

Fittings: Parkrimp HY Series Fittings. See pages 18-19 and Section C of Catalog 4400 for Parkrimp fitting assembly instructions.

Hose cover does not have to be removed to attach Parker No-Skive fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	2	0.50	1/4	AX04
3000	12000	2-1/2	0.62	3/8	AX06
2500	10000	3-1/2	0.75	1/2	AX08
1500	6000	4	0.88	5/8	AX10
1250	5000	4-3/4	1.01	3/4	AX12
1000	4000	6	1.29	1	AX16

**Hydraulic Hose - No Skive
SAE 100R2 Type AT**

BXX



Construction: Neoprene inner tube; two braids of high tensile steel wire reinforcement; oil and weather resistant MSHA approved synthetic rubber cover.

Application and Temperature Range: Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C). **SAE/USCG Marine Listed.**

Water, water/glycol, and water/oil emulsion hydraulic fluids up to 185°F (85°C).

Air up to +158°F (+70°C).

For air above 250psi (1,5 MPa), the cover should be pinpricked.

Fittings: Parkrimp HY Series Fittings. See pages 18-19 and Section C of Catalog 4400 for Parkrimp fitting assembly instructions.

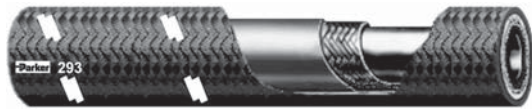
Hose cover does not have to be removed to attach Parker No-Skive fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	4	0.59	1/4	BXX04
4000	16000	5	0.74	3/8	BXX06
3500	14000	7	0.87	1/2	BXX08
2750	11000	8	1.00	5/8	BXX10
2250	9000	9-1/2	1.15	3/4	BXX12
2000	8000	12	1.49	1	BXX16

**Engine/Air Brake Hose
SAE J1402 AI
D.O.T. FMVSS 106 - AI**

293

Fuel and oil-resistant synthetic rubber hose; one braid of fiber reinforcement; entangled black nylon fiber out braid that is oil, weather and fire resistant. Use Reusable 21 or 23 Series, or 26 Series Crimp fittings.



Construction: Synthetic rubber tube; one textile inner braid reinforcement; black nylon braid cover.

Temperature Range:

- Petroleum-base hydraulic fluids and lubricating oils, diesel fuels and antifreeze solutions within a temperature range of -58°F to +302°F (-50°C to +150°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 26 Series. Compatible with Field Attachable 21 Series and 23 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
500	2000	1/2	0.49	3/16	293-4
500	2000	1	0.62	5/16	293-6
500	2000	1-1/2	0.74	13/32	293-8
450	1800	2	0.83	1/2	293-10
450	1800	2-1/2	0.96	5/8	293-12
450	1800	3-1/2	1.21	7/8	293-16

Meets DOT FMVSS106, SAE J1402 Type AI specifications.

**Hydraulic Hose - No Skive
SAE 100R2 Type AT**

301

Two wire braids, rubber cover hose for high pressure hydraulic service. Use 30 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; two braids of high tensile steel wire reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series. Compatible with Field Attachable 30 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	4	0.59	1/4	301-4
4000	16000	5	0.75	3/8	301-6
3500	14000	7	0.88	1/2	301-8
2750	11000	8	1.00	5/8	301-10
2250	9000	9-1/2	1.16	3/4	301-12
2000	8000	12	1.50	1	301-16
1625	6500	16-1/2	1.86	1-1/4	301-20
1250	5000	20	2.15	1-1/2	301-24
1125	4500	25	2.66	2	301-32

Hydraulic Hose - No Skive SAE 100R2 Type AT for Low Temperature Service

301LT

Two wire braids, rubber cover hose for high pressure hydraulic service. Use Parkrimp 43 Series or 30 Series Reusable fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; two braids of high tensile steel wire reinforcement and synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -67°F to +212°F (-55°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the hose cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	4	0.59	1/4	301LT-4
4000	16000	5	0.75	3/8	301LT-6
3500	14000	7	0.88	1/2	301LT-8
2250	9000	9 1/2	1.16	3/4	301LT-12
2000	8000	12	1.50	1	301LT-16

Hydraulic Hose - No Skive For Phosphate Ester Fluids

304

Two wire braids, rubber cover hose for high pressure hydraulic service. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Phosphate ester resistant EPDM synthetic rubber tube; two braids of high tensile steel wire reinforcement; green EPDM synthetic rubber cover.

Temperature Range:

- Phosphate ester base hydraulic fluids within a temperature range of -40°F to +176°F (-40°C to +80°C).
- Water and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa) the hose cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings.

Special Assembly Instructions for 304 Hose: Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	4	0.59	1/4	304-4
4000	16000	5	0.75	3/8	304-6
3500	14000	7	0.88	1/2	304-8
2250	9000	9 1/2	1.16	3/4	304-12
2000	8000	12	1.50	1	304-16
1625	6500	16-1/2	1.86	1-1/4	304-20
1250	5000	20	2.14	1-1/2	304-24
1125	4500	25	2.64	2	304-32

Hydraulic Hose - No Skive SAE 100R9 Type AT

341

Four wire spirals, rubber cover hose for high pressure hydraulic service. Use Parkrimp 43 Series or Reusable 34 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; four spirals of high tensile steel wire reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa) the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 34 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
4500	18000	5	0.78	3/8	341-6
4000	16000	7	0.89	1/2	341-8
3000	12000	9-1/2	1.17	3/4	341-12
3000	12000	12	1.51	1	341-16
2500	10000	16-1/2	1.87	1-1/4	341-20

Hydraulic Hose - No Skive Abrasion Resistant

351ST

Two wire braids, Nitrile-based synthetic rubber cover hose. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement and an oil and weather resistant, black synthetic rubber and high abrasion resistant cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +100°C (-40°F to +212°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
4000	16000	2	0.52	1/4	351ST-4
4000	16000	2-1/2	0.67	3/8	351ST-6
4000	16000	3-1/2	0.80	1/2	351ST-8
4000	16000	4	0.93	5/8	351ST-10
4000	16000	4-1/2	1.09	3/4	351ST-12

Hydraulic Hose - No Skive Abrasion Resistant

351TC

Two wire braids, Nitrile-based synthetic rubber cover hose. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +100°C (-40°F to +212°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
4000	16000	2	0.51	1/4	351TC-4
4000	16000	2-1/2	0.67	3/8	351TC-6
4000	16000	3-1/2	0.80	1/2	351TC-8
4000	16000	4	0.93	5/8	351TC-10
4000	16000	4-3/4	1.09	3/4	351TC-12

Hydraulic Hose - No Skive SAE 100R2 Type AT ISO 1436 Type 2AT EN 853 Type 2SN

381

Two wire braids, rubber cover hose for high pressure high-impulse hydraulic service. Use 30 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Hose consists of inner tube of oil resistant high Nitrile polymer with a minimum of 27 ACN value; two braids of special high tensile steel wire reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Polyol ester based hydraulic fluids within a temperature range of -40°F to +150°F (-40°C to +65°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air pressure above 250 psi (1,7 MPa) the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 30 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5800	23200	4	0.59	1/4	381-4
5075	20300	4-1/2	0.65	5/16	381-5
5000	20000	5	0.75	3/8	381-6
4250	17000	7	0.88	1/2	381-8
3625	14500	8	1.00	5/8	381-10
3125	12500	9-1/2	1.16	3/4	381-12
2500	10000	12	1.50	1	381-16
2250	9000	16-1/2	1.86	1-1/4	381-20
1800	7200	20	2.14	1-1/2	381-24
1300	5200	25	2.64	2	381-32

Hydraulic Hose - No Skive SAE 100R1 Type AT

421

One wire braid, rubber cover hose for medium pressure hydraulic service. Use 42 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; one braid of high tensile steel wire reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air or gas applications above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 42 Series fittings.

Note: Hose O.D. of size -20 hose is larger than specified in SAE 100R1 Type AT.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	3-1/2	0.46	3/16	421-3
2750	11000	4	0.53	1/4	421-4
2500	10000	4-1/2	0.59	5/16	421-5
2250	9000	5	0.68	3/8	421-6
2000	8000	7	0.81	1/2	421-8
1500	6000	8	0.94	5/8	421-10
1250	5000	9-1/2	1.09	3/4	421-12
1000	4000	12	1.41	1	421-16
625	2500	16-1/2	1.79	1-1/4	421-20
500	2000	20	2.00	1-1/2	421-24
375	1500	25	2.54	2	421-32

Hydraulic Hose - No Skive SAE 100R1 Type AT, For High Temperature Service

421HT

One wire braid, rubber cover hose for high temperature medium pressure service. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; single high tensile steel wire braid reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -50°F to +302°F (-46°C to +150°C).
- Water, water/glycol, and water/oil emulsion hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings.

Note: Hose O.D. of size -20 hose is larger than specified in SAE 100R1 Type AT.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
2750	11000	4	0.53	1/4	421HT-4
2250	9000	5	0.68	3/8	421HT-6
2000	8000	7	0.81	1/2	421HT-8
1500	6000	8	0.94	5/8	421HT-10
1250	5000	9-1/2	1.09	3/4	421HT-12
1000	4000	12	1.40	1	421HT-16
625	2500	16-1/2	1.79	1-1/4	421HT-20
500	2000	20	2.00	1-1/2	421HT-24
375	1500	25	2.54	2	421HT-32

Hydraulic Hose - No Skive SAE 100R1 Type AT with a Protective Wire Cover

421WC

One wire braid medium pressure hose with wire cover. Use Parkrimp 43 Series fittings. (Note: Black die ring must be used in crimping Parkrimp 43 Series Fittings on 421WC hose.)



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; one braid of high tensile steel wire reinforcement; synthetic rubber layer; protective overbraid of galvanized steel wire.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
2750	11000	4	0.55	1/4	421WC-4
2250	9000	5	0.71	3/8	421WC-6
2000	8000	7	0.84	1/2	421WC-8
1250	5000	9-1/2	1.12	3/4	421WC-12
1000	4000	12	1.43	1	421WC-16

Hydraulic Hose - No Skive For Phosphate Ester Fluids SAE 100R1, Type AT

424

Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Phosphate ester resistant EPDM synthetic rubber tube; one braid of high tensile steel wire reinforcement; phosphate ester and weather resistant; green, EPDM synthetic rubber cover.

Temperature Range:

- Phosphate ester base hydraulic fluids within a temperature range of -40°C to +80°C (-40°F to +176°F).
- Water, water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
1000	4000	12	1.40	1	424-16
625	2500	16 1/2	1.73	1 1/4	424-20
500	2000	20	2.00	1 1/2	424-24
375	1500	25	2.50	2	424-32

Hydraulic Hose - No Skive SAE 100R16

431 Compact[®]

Two wire braid, rubber cover hose for high pressure service. Use 42 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; two braids of high tensile steel wire reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to 125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi, (1,7 MPa) the hose cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 42 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
5000	20000	2	0.53	1/4	431-4
4250	17000	2-1/4	0.59	5/16	431-5
4000	16000	2-1/2	0.68	3/8	431-6
3500	14000	3-1/2	0.81	1/2	431-8
2750	11000	4	0.94	5/8	431-10
2250	9000	4-3/4	1.09	3/4	431-12
2000	8000	6	1.41	1	431-16

Caution: The Silver Die Ring must be used when crimping 43 Series Parkrimp fittings onto 431 hose.

Hydraulic Hose - No Skive SAE 100R16

436 Compact[®]

Two wire braid, blue rubber cover hose for high pressure/high temperature service. Use 42 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; two braids of high tensile steel wire reinforcement; MSHA accepted blue synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -58°F to +302°F (-50°C to +150°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi, (1,7 MPa) the hose cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series. Compatible with Field Attachable 42 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
4000	16000	2-1/2	0.68	3/8	436-6
3500	14000	3-1/2	0.81	1/2	436-8
2750	11000	4	0.94	5/8	436-10
2250	9000	4-3/4	1.09	3/4	436-12
2000	8000	6	1.41	1	436-16

Caution: The Silver Die Ring must be used when crimping 43 Series Parkrimp fittings onto 436 hose.

Hydraulic Hose - No Skive

451ST

Abrasion resistant outer cover for constant pressure application. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile-based synthetic rubber, high tensile steel wire reinforcement, and an oil and weather resistant, black, synthetic rubber and high abrasion resistant cover.

Temperature Range:

- Most petroleum-base hydraulic fluids and lubricating oils within a temperature range of -40°C to +100°C (-40°F to +212°F).
- Water, water/oil emulsion, and water/glycol hydraulic fluids to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	2	0.52	1/4	451ST-4
3000	12000	2-1/2	0.68	3/8	451ST-6
3000	12000	3-1/2	0.80	1/2	451ST-8
3000	12000	4	0.94	5/8	451ST-10
3000	12000	4-3/4	1.10	3/4	451ST-12
3000	12000	6	1.40	1	451ST-16
3000	12000	8-1/4	1.85	1-1/4	451ST-20

Hydraulic Hose - No Skive

451TC

Abrasion resistant outer cover for constant pressure application. Use 42 Series (for sizes -6 and -8 only) or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube compatible with most petroleum-base hydraulic fluids; a high-tensile steel wire reinforcement; and an oil, weather; MSHA accepted synthetic abrasion resistant rubber cover. The rubber cover is MSHA approved.

Temperature Range and Applications:

- 3000 psi (21 MPa) hose for applications where greater protection against abrasion is required.
- Most petroleum-base hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 42 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
3000	12000	2	0.52	1/4	451TC-4
3000	12000	2-1/4	0.58	5/16	451TC-5+
3000	12000	2-1/2	0.68	3/8	451TC-6
3000	12000	3-1/2	0.80	1/2	451TC-8
3000	12000	4	0.94	5/8	451TC-10
3000	12000	4-3/4	1.10	3/4	451TC-12
3000	12000	6	1.40	1	451TC-16

Caution: The Silver Die Ring must be used when crimping 43 Series Parkrimp fittings onto 451TC hose.

EN 857 Type 2SC High Abrasion Resistant Cover

471ST

Two wire braids, rubber cover hose for high pressure hydraulic service. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement, and an oil and weather resistant, black, synthetic rubber and high abrasion resistant cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +100°C (-40°F to +212°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	2-1/2	0.68	3/8	471ST-6
4250	17000	3-1/2	0.80	1/2	471ST-8
3625	14500	4	0.94	5/8	471ST-10
3125	12500	4-3/4	1.09	3/4	471ST-12
2500	10000	6	1.39	1	471ST-16

SAE 100R17 - Tough Cover Hose

471TC

Two wire braids, rubber cover hose for high pressure hydraulic service. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile-based synthetic rubber, two braids of high tensile steel wire reinforcement, and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +100°C (-40°F to +212°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	2	0.51	1/4	471TC-4
5000	20000	2-1/2	0.68	3/8	471TC-6
4250	17000	3-1/2	0.80	1/2	471TC-8
3625	14500	4	0.94	5/8	471TC-10
3125	12500	4-3/4	1.09	3/4	471TC-12
2500	10000	6	1.4	1	471TC-16

EN 853 Type 1SN - High Abrasion Resistant Cover

482ST

Wire braid reinforced, synthetic rubber cover hose for hydraulic service. Use 42 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant high Nitrile polymer a single braid of high tensile steel wire reinforcement and an oil and weather resistant, black, high abrasion resistant synthetic rubber cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°C to +100°C (-40°F to +212°F).
- Polyol ester fluids up to +65°C (+150°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 42 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
3250	13000	2	0.53	1/4	482ST-4
3000	12000	2-1/2	0.69	3/8	482ST-6
2500	10000	3-1/2	0.82	1/2	482ST-8
2000	8000	4	0.94	5/8	482ST-10
1750	7000	4-3/4	1.09	3/4	482ST-12

EN 853 Type 1SN - Tough Cover Hose

482TC

Wire braid reinforced, synthetic rubber cover hose for hydraulic service. Use 42 Series or Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant high Nitrile polymer a single braid of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic, MSHA accepted rubber cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range of -40°C to +100°C (-40°F to +212°F).
- Polyol ester fluids up to +65°C (+150°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 43 Series fittings. Compatible with Field Attachable 42 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
3250	13000	2	0.53	1/4	482TC-4
3250	13000	2-1/4	0.59	5/16	482TC-5
3000	12000	2-1/2	0.69	3/8	482TC-6
2500	10000	3-1/2	0.82	1/2	482TC-8
2000	8000	4	0.94	5/8	482TC-10
1750	7000	4-3/4	1.09	3/4	482TC-12
1275	5100	6	1.41	1	482TC-16

Hydraulic Hose - No Skive SAE 100R3

601

Two textile braid medium pressure hose for hydraulic service. Use Parkrimp 43 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube, two textile fiber braid reinforcement; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of +158°F (+70°C).

For air above 250 psi (1,7 MPa), the hose cover should be pin-pricked.

Fittings: Compatible with Parkrimp 43 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
1250	5000	3	0.56	1/4	601-4
1125	4500	4	0.75	3/8	601-6
1000	4000	5	0.92	1/2	601-8
750	3000	6	1.24	3/4	601-12
565	2250	8	1.50	1	601-16

Water Hose - No Skive

604

Use Parkrimp 43 Series fittings.



Construction: EPDM synthetic rubber tube; two braids of textile fiber reinforcement; red EPDM synthetic rubber cover.

Applications and Temperature Range: Parker 604 hose was specifically developed for use as cooling water lines on injection molding equipment. Hot water up to +200°F (+93°C).

Fittings: Compatible with Parkrimp 43 Series fittings.

Special Assembly Instruction for 604 hose: Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
300	1200	4	0.75	3/8	604-6
300	1200	5	0.92	1/2	604-8
300	1200	8	1.50	1	604-16

Hydraulic Hose - No Skive
EN 856 Type 4SP
ISO 3862 Type 2
DIN 20 023-4SP

701

Use Parkrimp 70 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; four spirals of high tensile steel wire reinforcement; oil- and weather-resistant black synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 70 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
6500	26000	7	0.84	3/8	701-6
6000	24000	9	0.97	1/2	701-8
5000	20000	10	1.11	5/8	701-10
5000	20000	12	1.27	3/4	701-12

SAE 100R11

711

Use Parkrimp 71 Series fittings.



Construction: Synthetic rubber tube; four spirals of high tensile steel wire reinforcement; MSHA accepted gray synthetic rubber cover.

Temperature Range: High pressure hose for use with:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°F).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa) the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 71 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	22	2.07	1-1/2	711-24
3000	12000	28	2.59	2	711-32

Hydraulic Hose - No Skive
DIN 20 023-4SH
EN 856 Type 4SH

731

Use Parkrimp 73 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube, four spirals of high tensile steel reinforcement, oil and weather resistant black synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +212°F (-40°C to +100°C) continuous and +257°F (+125°C) intermittent.
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 73 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
6000	24000	11	1.27	3/4	731-12
5500	22000	13-1/2	1.52	1	731-16
4700	18800	18	1.79	1-1/4	731-20
4200	16800	22	2.10	1-1/2	731-24
3600	14400	27	2.68	2	731-32

Hydraulic Hose - No Skive
SAE 100R12
EN 856 Type R12

77C

Four heavy spiral wire, gray rubber cover hose for high pressure hydraulics. Use 71 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; four spirals of high tensile steel wire reinforcement; MSHA accepted gray synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked,.

Fittings: Compatible with Parkrimp 71 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
4000	16000	5	0.80	3/8	77C-6
4000	16000	7	0.94	1/2	77C-8
4000	16000	8	1.08	5/8	77C-10
4000	16000	9-1/2	1.21	3/4	77C-12
4000	16000	12	1.50	1	77C-16
3000	12000	16-1/2	1.83	1-1/4	77C-20
2500	10000	20	2.07	1-1/2	77C-24
2500	10000	25	2.60	2	77C-32

Hydraulic Hose - No Skive SAE 100R12

772ST

Four plies of spiral wire reinforcement, black synthetic rubber cover hose for high pressure hydraulics. Use 71 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber and high abrasion resistant cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +125°C (-40°F to +257°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 71 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
4000	16000	5	0.79	3/8	772ST-6
4000	16000	7	0.93	1/2	772ST-8
4000	16000	8	1.08	5/8	772ST-10
4000	16000	9-1/2	1.20	3/4	772ST-12
4000	16000	12	1.48	1	772ST-16
3000	12000	16-1/2	1.84	1-1/4	772ST-20
2500	10000	20	2.07	1-1/2	772ST-24
2500	10000	25	2.59	2	772ST-32

Hydraulic Hose - No Skive SAE 100R12

772TC

Four heavy spiral wire, black rubber cover hose for high pressure hydraulics. Use 71 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile synthetic rubber, 4 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic, MSHA accepted rubber cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +125°C (-40°F to +257°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 71 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
4000	16000	5	0.79	3/8	772TC-6
4000	16000	7	0.93	1/2	772TC-8
4000	16000	8	1.08	5/8	772TC-10
4000	16000	9-1/2	1.20	3/4	772TC-12
4000	16000	12	1.48	1	772TC-16
3000	12000	16-1/2	1.84	1-1/4	772TC-20
2500	10000	20	2.07	1-1/2	772TC-24
2500	10000	25	2.59	2	772TC-32

Hydraulic Hose - No Skive For Phosphate Ester Base Fluids

774

Use Parkrimp 71 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Phosphate Ester resistant EPDM synthetic rubber tube, 4 spiral plies of high tensile steel wire reinforcement, and a phosphate ester and weather resistant, green synthetic rubber cover.

Temperature Range:

- Phosphate ester base hydraulic fluids within a temperature range -40°C to +80°C (-40°F to +176°F).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 71 Series fittings.

Special Assembly Instructions for 774 Hose: Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
4000	16000	9-1/2	1.21	3/4	774-12
4000	16000	12	1.49	1	774-16
3000	12000	16-1/2	1.82	1-1/4	774-20
2500	10000	20	2.08	1-1/2	774-24
2500	10000	25	2.60	2	774-32

Hydraulic Hose - No Skive SAE 100R13 EN 856 Type R13

78C

Multiple plies of spiral wire, red rubber cover hose. For High pressure hydraulics. Use 78 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; multiple spirals of high tensile steel wire reinforcement; MSHA accepted red synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

For air above 250 psi (1,7 MPa), the cover should be pin-pricked.

Fittings: Compatible with Parkrimp 78 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	9-1/2	1.26	3/4	78C-12
5000	20000	12	1.52	1	78C-16
5000	20000	16-1/2	1.96	1-1/4	78C-20
5000	20000	20	2.26	1-1/2	78C-24
5000	20000	25	2.80	2	78C-32

Hydraulic Hose - No Skive SAE 100R13

782ST

Multiple plies of spiral wire, black synthetic rubber cover hose. For High pressure hydraulics. Use 78 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber and high abrasion resistant cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +125°C (-40°F to +257°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 78 Series fittings.

Note: * -10 is not a SAE 100R13 type hose.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
5000	20000	9-1/2	1.26	3/4	782ST-12
5000	20000	12	1.52	1	782ST-16
5000	20000	16-1/2	1.96	1-1/4	782ST-20
5000	20000	20	2.26	1-1/2	782ST-24

Hydraulic Hose - No Skive SAE 100R13 Abrasion Resistant

782TC

Multiple plies of spiral wire, black synthetic rubber cover hose. For High pressure hydraulics. Use 78 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile synthetic rubber, 4 or 6 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +125°C (-40°F to +257°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 78 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
6500	26000	9	1.14	5/8	782ST-10*
5000	20000	9-1/2	1.26	3/4	782TC-12
5000	20000	12	1.52	1	782TC-16
5000	20000	16-1/2	1.96	1-1/4	782TC-20
5000	20000	20	2.26	1-1/2	782TC-24

* -10 is not an SAE 100R13 type hose.

**Hydraulic Hose - No Skive
SAE 100R13
Abrasion Resistant
“Super Tough” Cover**

792ST

Multiple plies of spiral wire, black synthetic rubber cover hose. For High pressure hydraulics. Use 79 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile synthetic rubber, 6 spiral plies of high tensile steel wire reinforcement and an oil and weather resistant, black, synthetic rubber and high abrasion resistant cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +125°C (-40°F to +257°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

Fittings: Compatible with Parkrimp 79 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
6000	24000	10-1/2	1.26	3/4	792ST-12
6000	24000	13	1.52	1	792ST-16
6000	24000	17-1/2	1.97	1-1/4	792ST-20

**Hydraulic Hose - No Skive
SAE 100R15
Abrasion Resistant
“Tough Cover”**

792TC

Multiple plies of spiral wire, black synthetic rubber cover hose. For High pressure hydraulics. Use 79 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Inner tube of oil resistant Nitrile synthetic rubber, 6 spiral plies of high tensile steel wire reinforcement and an oil, weather and abrasion resistant, black, synthetic rubber, MSHA accepted cover.

Temperature Range:

- Petroleum base hydraulic fluids and lubricating oils within a temperature range -40°C to +125°C (-40°F to +257°F).
- Water, water/oil emulsion and water/glycol hydraulic fluids up to +85°C (+185°F).
- Air up to +70°C (+158°F).

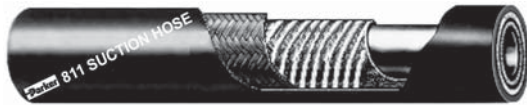
Fittings: Compatible with Parkrimp 79 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal Hose O.D.	Nominal Hose I.D.	Part No.
6000	24000	10-1/2	1.26	3/4	792TC-12
6000	24000	13	1.52	1	792TC-16
6000	24000	17-1/2	1.97	1-1/4	792TC-20

SAE 100R4 - Hydraulic Suction and Return Line Hose - 1/2 SAE 100R4 Specified Bend Radius

811

Synthetic rubber tube; reinforced by two textile braids or a woven ply, combined with wire spiraled throughout the textile reinforcement. Use with Field Attachable 88 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; two or four layers of spiral textile reinforcement; a helical reinforcing wire spiraled throughout the textile reinforcement to prevent collapse under vacuum; synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40° F to +212° F (-40° C to +100° C).
- Water, water/oil emulsion, and water/glycol hydraulic fluids up to +185° F (+85° C).
- Air up to +158° F (+70° C).

Fittings: Compatible with Parkrimp 43 Series. Compatible with Field Attachable 88 Series fittings and TB Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Press. (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
100	400	2-1/2	1.18	3/4	811-12
70	280	3	1.50	1	811-16
50	200	4	1.77	1-1/4	811-20
50	200	5	2.05	1-1/2	811-24
50	200	6	2.50	2	811-32
62	250	7	3.00	2-1/2	811-40

SAE 100R4 - Hydraulic Suction and Return Line Hose

881

Synthetic rubber tube; reinforced by two textile braids or a woven ply, combined with wire spiraled throughout the textile reinforcement. Use with Parkrimp 43 Series or Reusable 88 Series fittings.



Hose cover does not have to be removed to attach Parker No-Skive fittings.

Construction: Synthetic rubber tube; reinforced by two textile braids or a woven ply, combined with wire spiraled throughout the textile reinforcement to prevent collapse under vacuum; MSHA accepted synthetic rubber cover.

Temperature Range:

- Petroleum based hydraulic fluids and lubricating oils within a temperature range of -40°F to +257°F (-40°C to +125°C).
- Water, water/glycol and water/oil emulsion hydraulic fluids up to +185°F (+85°C).
- Air within a temperature range of -40°F to +158°F (-40°C to +70°C).

Fittings: Compatible with Parkrimp 43 Series. Compatible with Field Attachable 88 Series fittings and TB Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Press. (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
100	400	5	1.20	3/4	881-12
70	280	6	1.49	1	881-16
50	200	8	1.78	1-1/4	881-20
50	200	10	2.06	1-1/2	881-24
50	200	12	2.48	2	881-32
62	250	14	3.00	2-1/2	881-40

LPG Compressed Natural Gas Hose (CGA Type III)

SS23CG

Use with Parkrimp 26 Series fittings.



Construction: LPG/CNG-resistant nylon tube; stainless steel wire braid reinforcement; oil and weather resistant, pin-pricked synthetic rubber cover.

Temperature Range:

- Low pressure service use with liquefied petroleum gas (LPG) and compressed natural gas (CNG) within a temperature range of -40° F to +250° F (-40° C to +121° C).

Fittings: Compatible with Parkrimp 26 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	9000	4	0.68	5/16	SS23CG-6
350	8000	4-5/8	0.77	13/32	SS23CG-8
350	7000	5-1/2	0.92	1/2	SS23CG-10

LPG Hose UL Listed for LPG Service UL Standard 21

SS25UL

One stainless steel (SS) wire, textile cover hose for LPG service. Use with 20 Series or 22 Series fittings. Listed for LPG service to UL Standard 21.



Construction: Synthetic rubber tube; textile inner braid, stainless steel wire braid reinforcement; black textile braid cover with white helical identification stripe.

Temperature Range and Applications:

- Low pressure service hose for use with: Liquefied petroleum gas (LPG) within a temperature range of -40°F to +257°F (-40°C to +125°C).

Fittings: Compatible with Field Attachable 20 Series and 22 Series fittings.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
350	1750	3/4	0.52	3/16	SS25UL-4
350	1750	1	0.58	1/4	SS25UL-5
350	1750	1-1/4	0.68	5/16	SS25UL-6
350	1750	1-3/4	0.77	13/32	SS25UL-8
350	1750	2-1/4	0.92	1/2	SS25UL-10
350	1750	2-3/4	1.08	5/8	SS25UL-12

Silicone - Low Pressure

848

Silicone inner tube, nylon fiber braid reinforcement. For Low pressure coolant and heater connections. Use with Lined Hose Clamps.



Construction: Silicone rubber inner tube, reinforced with nylon fiber braid compatible with most anti-freeze. Braid expands for easy assembly to fitting. Green silicone rubber cover.

Applications and Temperature Range: Low pressure service for cooling and heater hose in diesel and gasoline engines within a temperature range of -55°F to +350°F. Resistant to radiator coolants, steam, aging, mildew, and most washdown fluids. Limited resistance to diesel fuel, petroleum base oils, and solvents.

Maximum Working Pressure (P.S.I.)	Minimum Bend Radius	Hose I.D.	Part No.
50	2	3/8	848-6
50	2	1/2	848-8
50	2 1/2	5/8	848-10
50	3	3/4	848-12
50	4	1	848-16

Silicone - Low Pressure

4241

Silicone inner tube, one ply reinforcement. For Low pressure coolant and heater connections, SAEJ20, TMC. Use with Lined Hose Clamps.



Construction: Polysiloxane (silicone) rubber inner tube, reinforced with one open fabric braid, covered with silicone rubber bonded to the braid and inner tube.

Applications and Temperature Range: Low pressure service for cooling and heater hose in diesel and gasoline engines within temperature range of -65°F to +350°F (continuous service). Resistant to radiator coolants, steam, aging, mildew, and most washdown fluids. Limited resistance to diesel fuel, petroleum base oils, and solvents.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Hose O.D.	Hose I.D.	Part No.
50	350	0.66	3/8	4241-6
50	325	0.80	1/2	4241-8
50	300	0.97	5/8	4241-10
50	250	1.13	3/4	4241-12
50	200	1.42	1	4241-16

Silicone - Low Pressure

4244

Silicone inner tube plus multiple ply reinforcement. For Low pressure coolant and heater connections. Use with Lined Hose Clamps.



Construction: Polysiloxane (silicone) rubber inner tube, reinforced with three or more plies of woven fabric impregnated with silicone rubber, and covered with a wrapped layer of silicone rubber bonded to the reinforcement.

Applications and Temperature Range: Low pressure service for cooling and heater hose in diesel and gasoline engines within temperature range of -65°F to +350°F (continuous service). Resistant to radiator coolants, steam, aging, mildew, and most washdown fluids. Limited resistance to diesel fuel, petroleum base oils, and solvents.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Hose O.D.	Hose I.D.	Part No.
50	450	0.89	1/2	4244-8
50	425	1.02	5/8	4244-10
50	425	1.14	3/4	4244-12
50	425	1.26	7/8	4244-14
50	375	1.39	1	4244-16
50	375	1.51	1 1/8	4244-18
50	350	1.64	1 1/4	4244-20
50	350	1.76	1 3/8	4244-22
50	350	1.89	1 1/2	4244-24
50	325	2.01	1 5/8	4244-26
50	325	2.14	1 3/4	4244-28
50	300	2.39	2	4244-32
50	300	2.64	2 1/4	4244-36
50	250	2.77	2 3/8	4244-38
50	250	2.89	2 1/2	4244-40
50	200	3.14	2 3/4	4244-44
50	200	3.39	3	4244-48
50	175	3.64	3 1/4	4244-52
50	175	3.98	3 1/2	4244-56

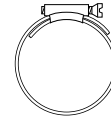
Lined Hose Clamp

H53

300 Series Stainless

With silicone 4241, 4244 & 848 hose and other silicone hoses, it is necessary to use a clamp which prevents extrusion of the soft silicone rubber thru the thread opening in the clamp. Never use wire clamps. The lined clamp is required.

Used With Dash Size	Clamp No.
-8	H5308
-10	H5310
-12	H5312
-16	H5316

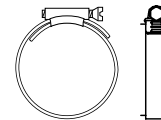


Low Pressure Hose Clamp

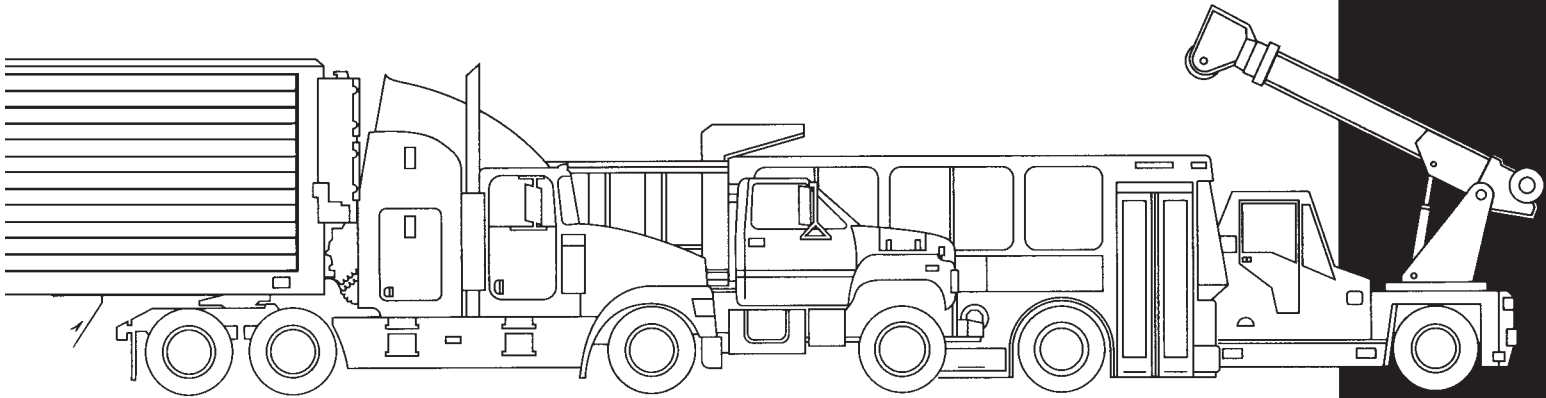
88HC-H

For use on 811 and 881 low pressure hose.

Used With Dash Size	Clamp No.
-12	88HC-12H+
-16	88HC-16H
-20	88HC-20H
-24	88HC-24H+
-32	88HC-32H
-40	88HC-40H
-48	88HC-48H



+ Non-standard.



Chemical Compatibility Guide	pg. 25
General Description	pg. B2*
*See page 31 of the introductory section for “How to Order” information	
High Pressure Hose	
• 520N Aramid-Fiber Braid 3500-5000 PSI	pg. B5
• 580N SAE 100R8 2000-5000 PSI	pg. B8
• 590 SAE 100R2 Wire-reinforced 2000-5000 PSI	pg. B9
Low Pressure Hose	
• GPH General Purpose	pg. B4
Medium Pressure Hose	
• 53LT Flexible Hydraulic Hose Constant 3000 PSI	pg. B9
• 55LT SAE 100R7 Low Temp 2000-3000 PSI	pg. B7
• 510A SAE 100R7 for Reusable Couplings 1000-3000 PSI	pg. B4
• 540N SAE 100R7 1250-3000 PSI	pg. B6
• 550H SAE 100R7 High Performance 1000-3250 PSI	pg. B6
• 560 SAE 100R1 Wire-reinforced 1750-3500 PSI	pg. B7
SAE J343 Non-Conductive Hose	
Medium Pressure	
• 518C SAE 100R7 for Reusable/Permanent Couplings 1250-3000 PSI	pg. B5
High Pressure	
• 588N SAE 100R8 3500-5000 PSI	pg. B8

Note: Please refer to Catalog 4660 for further information.

Specialty Hose

- **D6** Exceeds SAE 100R17 3000 PSI **pg. B10**
- **HFS** Firescreen® Hose Exceeds SAE 100R1AT USCG Marine Listed **pg. B10**
- **HFS2** Firescreen II® Hose SAE 100R16 USCG Marine Listed **pg. B11**
- **HTB** Eliminator® Hose USCG Marine Listed **pg. B11**
- **M8** E-Z FLEX® Hose 4000 PSI **pg. B12**
- **MSH** Marine Steering Hose 1000 PSI **pg. B12**
- **PSH/HPSH** Sewer Cleaning Hose 2000-3000 PSI **pg. B13**
- **PTH** Marine Power Tilt Hose 3000 PSI **pg. B13**
- **S4/S6/S9** Predator Sewer Cleaning Hose 2500-4000 PSI **pg. B14**
- **550H** Twin Line & Multi-Line Hose **pg. B16**
- **1035A** Power Clean Hose 1200-1500 PSI **pg. B15**
- **1035HT** Power Clean Hose 1500-1750 PSI **pg. B15**

TFE Hose

- **919** Stainless Steel Wire Braid 625-3000 PSI **pg. B14**

**General Purpose Hose
250 psi working pressure**

GPH

Use with economical brass barbed inserts and brass ferrules, or 55 Series couplings.



Construction: PVC (vinyl) core tube, single fiber braid reinforcement, PVC cover. All layers chemically bonded for optimum kink resistance and flexibility.

Applications: Air and water service for plants and machinery. Lubricated air systems, anti-freeze solutions, some acids.

Standard Colors: Red, yellow, blue, gray, black.

Temperature Range: -15°F to +150°F (-25°C to +65°C) continuous.

Couplings: Handy, economical brass barbed inserts and brass ferrules, Series H125-126, or 55 Series. See page N4.

Vacuum Service: All sizes to 28 ins. Hg.

The flexible PVC cover has excellent abrasion and tear resistance compared to synthetic rubbers; good weathering, ozone and UV resistance. GPH is not suggested for hydraulic service or for fuels and solvents.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Ins.	Part No.
250	1000	7/16	3/16	GPH-3
250	1000	5/8	1/4	GPH-4
250	1000	7/8	3/8	GPH-6
250	1000	1 1/4	1/2	GPH-8
250	1000	2 1/2	3/4	GPH-12

**SAE100R7 -
Medium Pressure**

510A

Two textile braid, urethane cover. For Cab tilt lines, medium pressure hydraulics. Use with 51 Series Fittings.



Construction: Copolymer core tube optimized for reusable couplings, fiber braid reinforcement and an abrasion-resistant urethane cover. All layers are bonded for excellent impulse life. Standard cover is black and perforated.

Application: Medium pressure service where reusable couplings are more convenient. Recommended for Cab tilt lines. Rugged braids are strongly bonded to core tube and cover. Compatible with most common hydraulic oils.

Temperature Range: -40°F to +212°F (-40°C to +100°C) except limited to +160°F (70°C) for synthetic hydraulic and water-based fluids.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	2	0.43	3/16	510A-3
2750	11000	2 1/2	0.47	1/4	510A-4
2500	10000	3	0.57	5/16	510A-5
2250	9000	4	0.63	3/8	510A-6
2000	8000	5 1/2	0.81	1/2	510A-8
1250	5000	7 1/2	1.10	3/4	510A-12

SAE 100R7 Non-Conductive Medium Pressure

518C

Meets SAE J517 for less than 50 microamps leakage under 75000 volts per ft. Meets or exceeds SAE 100R7 specifications and Ontario Hydro electrical standards. Complies with ANST A92.2 for vehicle-mounted aerial devices. Use with 51 Series and 55 Series Fittings.



Construction: Elastomeric core, fiber reinforcement, abrasion-resistant special PFX cover. All layers bonded for optimum kink resistance and flexibility. High density braid for maximum impulse life without loss of flexibility. Standard cover is orange, non-perforated.

Applications: Medium pressure hydraulic service where both reusable and permanent couplings are desired. For hydraulic circuits and systems found on utility vehicles and equipment where exposure and contact with high voltage may be encountered.

Temperature Range: -40°F to +212°F (-40°C to +100°C) except limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	10000	1/2	0.34	1/8	518C-2
3000	12000	3/4	0.42	3/16	518C-3
3000	11000	1-1/2	0.47	1/4	518C-4
3000	10000	1-3/4	0.57	5/16	518C-5
3000	9000	2	0.63	3/8	518C-6
3000	9000	3	0.81	1/2	518C-8
2000	6000	4	0.98	5/8	518C-10
1660	5000	6	1.08	3/4	518C-12
1330	4000	8	1.32	1	518C-16

High Pressure Hose - Aramid Fiber Braided 3500 to 5000 psi pressure range

520N

Meets or exceeds SAE 100R8 specifications for sizes -3 to -8.



Aramid reinforcement for compact strength and flexibility.

Construction: Polymeric core tube, aramid braid reinforcement, abrasion resistant urethane cover. All layers bonded. Standard cover is black and perforated for pneumatic service.

Applications: Hydraulic and pneumatic circuits and systems. Replaces 100R2 rubber hose wherever greater flexibility fluid compatibility and cover durability are required, lighter weight and smaller O.D. than 100R2. Aramid reinforcing yarn has twice the strength of steel wire on a pound-for-pound comparison thereby providing low volumetric expansion and excellent flex impulse life in a minimum O.D. hose. Ideal for use in hot water applications. Not recommended for use over the sheave.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Couplings: 55 Series, swaged or crimped.

Vacuum Service: All sizes to 28 ins. Hg.

Twin-line or multi-line constructions available.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
5000	22000	1 1/2	3/16	520N-3
5000	20000	2	1/4	520N-4
4500	18000	2 1/2	5/16	520N-5
4000	16000	2 1/2	3/8	520N-6
3500	14000	4	1/2	520N-8

Change in length at working pressure is ± 2% maximum.

Medium Pressure Hose 1250 to 3000 psi pressure

540N

Meets or exceeds SAE 100R7 specifications.



Construction: Polymeric core tube, one fiber braid reinforcement, abrasion-resistant urethane cover. All layers bonded for optimum kink resistance and flexibility. Standard cover is black and perforated for pneumatic service.

Applications: Hydraulic and pneumatic circuits and systems. Excellent overall chemical capability, wide service temperature range. Used for agricultural spraying, urethane foam mixers, robotics, fire-resistant fluid systems, and hot water. Note: For over-the-sheave cold temperature applications see 55LT.

Colors: Non-black on special order.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Couplings: 55 Series, swaged or crimped.

Vacuum Service: All sizes to 28 ins. Hg.

540N hose has a smaller OD, 1/3 the weight, greater flexibility and wider range of fluid compatibility than equivalent rubber wire hose (SAE 100R1). Twin-line or multi-line constructions available. Long lengths are standard.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
2500	10000	1/2	1/8	540N-2
3000	12000	3/4	3/16	540N-3
2750	11000	1 1/2	1/4	540N-4
2500	10000	1 3/4	5/16	540N-5
2250	9000	2	3/8	540N-6
2000	8000	3	1/2	540N-8
1250	5000	6	3/4	540N-12

Change in length at working pressure is ± 2% maximum.

High Performance, Medium Pressure Hose 1000 to 3250 psi pressure range

550H

Meets or exceeds SAE 100R7 specifications.



Construction: Elastomeric core tube, fiber braid reinforcement, abrasion-resistant urethane cover. All layers bonded for optimum kink resistance and flexibility. Standard cover is black and perforated for pneumatic service. 558H version has an orange non-perforated cover and is used for electrically non-conductive applications. For very low temperature service use 55LT. For maximum flame retardance use 55FR.

Applications: Hydraulic and pneumatic circuits and systems. Excellent low temperature flexibility and flex fatigue life, broad range of chemical compatibility, low elongation and volumetric expansion. Can be installed with very small bend radii. Widely used on earthmoving and agricultural equipment. Core tube properties are maintained in contact with aggressive chemicals at elevated temperature. Note: For over-the-sheave cold temperature applications see 55LT.

Colors: Non-black on special order. Orange reserved for 558H non-conductive version.

Temperature Range: -40°F to +212°F (-40°C to +100°C) except limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids.

Couplings: 55 Series, swaged or crimped. 58 Series swaged or crimped for -10.

Vacuum Service: All sizes to 28 ins. Hg.

Twin-line or multi-line constructions available. Long lengths are standard.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
3250	13000	3/4	3/16	550H-3
3000	12000	1 1/4	1/4	550H-4
2500	10000	1 3/4	5/16	550H-5
2250	9000	2	3/8	550H-6
2000	8000	3	1/2	550H-8
1500	6000	4	5/8	550H-10
1250	5000	5	3/4	550H-12
1000	4000	8	1	550H-16

Change in length at working pressure is ± 2% maximum.

Medium Pressure, Low Temperature Hydraulic Hose 2000 to 3000 psi pressure range

55LT

Meets or exceeds SAE 100R7 specifications.



Construction: Elastomeric core tube, two fiber braid reinforcement, special polyester cover. All layers bonded. Standard cover is black and perforated for pneumatic service.

Applications: Hydraulic systems exposed to very low temperatures. Ideal for use at low temperature on fork trucks in refrigerated warehouses, earthmoving and agricultural machinery for cold climates.

Colors: Non-black on special order.

Temperature Range: -70°F to +212°F (-63°C to +100°C) except limited to +106°F (+70°C) for synthetic hydraulic fluids and water-based fluids.

Couplings: 55 Series, swaged or crimped; 58 Series on size -2.

Vacuum Service: All sizes to 28 ins. Hg.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
3000	11500	1/2	1/8	55LT-2
3250	13000	3/4	3/16	55LT-3
3000	12000	1 1/4	1/4	55LT-4
2500	10000	1 3/4	5/16	55LT-5
2250	9000	2	3/8	55LT-6
2000	8000	3	1/2	55LT-8
1250	5000	5	3/4	55LT-12

Change in length at working pressure is ± 2% maximum.

Medium Pressure

560

One wire braid, urethane cover. For Auto transport, construction equipment. Abrasion resistant. Use with 55 Series to -8 and 58 Series Fittings for -12.



Meets or exceeds SAE 100R1 specifications.

Construction: Elastomeric core tube, high tensile brass-plated steel wire reinforcement, abrasion-resistant, urethane cover. Standard cover is black, non-perforated.

Applications: Hydraulic circuits and systems wherever 100R1 rubber hose is now specified. 560 is suitable for most synthetic hydraulic fluids, water (to 160°F) and a wide range of chemicals. Much lighter and smaller than rubber 100R1 and available in economical longer lengths with wire reinforcement for kink and abuse resistance and low expansion. Urethane cover has excellent wear, cut, weather, ozone and chemical resistance. No cover skiving required for crimped or swaged coupling.

Temperature Range: - 40°F to +250°F (-40°C to +121°C) except limited to +135°F (57°C) for synthetic hydraulic and water based fluids.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3500	3500	3/4	.42	3/16	560-3
3250	3250	1 3/4	.51	1/4	560-4
2750	2750	2 1/4	.64	3/8	560-6
2500	2500	3 1/4	.79	1/2	560-8
1750	1750	7	1.12	3/4	560-12

High Pressure Hose 2000 to 5000 psi pressure range

580N

Meets or exceeds SAE 100R8 specifications for all sizes.



Construction: Polymeric core tube, fiber braid reinforcement, abrasion-resistant urethane cover. All layers bonded. Standard cover is black and perforated for pneumatic service.

Applications: Hydraulic and pneumatic circuits and systems. Replaces 100R2 rubber hose wherever greater flexibility, fluid compatibility and cover durability are required. Lighter weight and smaller OD than 100R2. No cover skiving needed. Long lengths are available.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Couplings: 58 Series, swaged or crimped.

Twin-line or multi-line constructions available.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

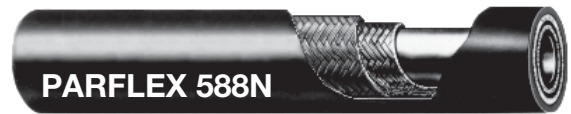
Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
5000	20000	2	1/4	580N-4
4000	16000	2 1/2	3/8	580N-6
3500	14000	4	1/2	580N-8
2750	11000	6	5/8	580N-10
2250	9000	8	3/4	580N-12
2000	8000	10	1	580N-16

Change in length at working pressure is ± 2% maximum.

High Pressure, Non-Conductive Hose 3500 to 5000 psi pressure range

588N

Meets SAEJ343 for less than 50 microamps leakage under 75000 volts per ft. Meets or exceeds SAE 100R8 specifications.



Construction: Polymeric core tube, fiber braid reinforcement, abrasion-resistant urethane cover. All layers bonded. Standard cover is orange, non-perforated.

Applications: Hydraulic circuits and systems. Replaces 100R2 hose wherever greater flexibility, fluid compatibility, electrical non-conductivity, and cover durability are required. For hydraulic circuits and systems found on utility vehicles and equipment where exposure and contact with high voltage may be encountered.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Couplings: 58 Series, swaged or crimped.

Twin-line or multi-line constructions available.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
5000	20000	2	1/4	588N-4
4000	16000	2 1/2	3/8	588N-6
3500	14000	4	1/2	588N-8
2750	11000	6	5/8	588N-10
2250	9000	8	3/4	588N-12
2000	8000	10	1	588N-16

Change in length at working pressure is ± 2% maximum.

High Pressure

590

One aramid fiber plus one wire braid, urethane cover (lightweight hose). For high pressure, general hydraulic service. Use with 55 Series to -8 and 58 Series Fittings -10 to -16.



Meets or exceeds SAE 100R2 specifications.

Construction: Elastomeric core tube, patented reinforcement of one aramid braid and one high tensile steel wire, abrasion-resistant, urethane cover. Standard cover is black, non-perforated.

Applications: Hydraulic circuits and systems wherever 100R2 rubber hose is now specified. 590 is suitable for most synthetic hydraulic fluids, petroleum based fluids, grease, lubricants, fuels, water (to 160°F) and a wide range of chemicals. Much lighter and smaller than rubber 100R2 and available in economical longer lengths. Patented hybrid reinforcement provides two wire strength with one wire braid flexibility, excellent flex fatigue and impulse durability and minimum bend radius. Urethane cover has excellent wear, cut, weather, ozone and chemical resistance. No cover skiving required for crimped or swaged coupling.

Temperature Range: - 40°F to +250°F (-40°C to +121°C) except limited to +135°F (57°C) for synthetic hydraulic fluids and water-based fluids.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
5000	20000	1 1/2	.43	3/16	590-3
5000	20000	1 3/4	.51	1/4	590-4
4000	16000	2 1/4	.64	3/8	590-6
3500	14000	3 1/4	.79	1/2	590-8
2750	12000	6	.97	5/8	590-10
2250	9000	7	1.10	3/4	590-12
2000	8000	8	1.42	1	590-16

Constant Working Pressure, Low Temperature Hydraulic Hose

53LT



Construction: Elastomeric core tube, fiber reinforcement, special polyester cover. All layers bonded. Standard cover is black and perforated for pneumatic service. Flame-retardant version is series 53FR.

Applications: Hydraulic systems exposed to very low temperatures.

Temperature Range: -70F to +212F (-57C to +100C) except limited to +135F (+57C) for synthetic hydraulic fluids and water-based fluids.

Fittings: 55 series for sizes -3 and -4 (crimped or swaged).
58 Series for sizes -5, -6, -8, and -10 (crimped or swaged).
58H Series for size -12 (crimped only).

Vacuum Service: All sizes to 28 in. Hg.

Twin-line or multi-line constructions available.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
3000	12000	1 1/4	0.43	3/16	53LT-3
3000	12000	1 3/4	0.51	1/4	53LT-4
3000	12000	2	0.61	5/16	53LT-5
3000	12000	3	0.72	3/8	53LT-6
3000	12000	3 1/2	0.89	1/2	53LT-8
3000	12000	4	1.00	5/8	53LT-10
3000	12000	5	1.24	3/4	53LT-12

Change in length at working pressure is ± 2% maximum.

Note: The above hose(s) are not intended for use in static discharge applications; i.e., airless paint spray.

3000 PSI constant pressure
D6 HOSE



Exceeds SAE 100R17

- Used in many industrial medium pressure hydraulic applications where a maximum 3000 PSI working pressure is required
- Ideally suited for inventory consolidations to cover all SAE 100R1 pressure and many SAE 100R2 pressure requirements

Tube: Elastomer

Reinforcement: One or two** braids of high tensile steel wire

Cover: Smooth synthetic rubber-MSHA approved

Temperature Range: -40° F to +250° F

Brand (white ink): PARFLEX DAYCO D6xx (ID) SAE 100R17 3000 PSI WP (MSHA #) MADE IN USA

Packaging: Plastic reels (nominal 250-feet/reel or nominal 500-feet/reel)

PERMANENT FITTING - SERIES HY (AVAILABLE THROUGH PARKER HOSE PRODUCTS DIVISION)

Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN)	Nom ID (IN)	Nom OD (IN)	Parflex HY Crimp Dia.	Parflex Crimp Die Part No.	Part No.
3,000	12,000	2.0	1/4	.50	0.570/0.590	80C-P0580	D604-250
3,000	12,000	2.0	1/4	.50	0.570/0.590	80C-P0580	D604-500
3,000	12,000	2.5	3/8	.66	0.730/0.750	80C-P0740	D606-250
3,000	12,000	2.5	3/8	.66	0.730/0.750	80C-P0740	D606-500
3,000	12,000	3.5	1/2	.80	0.860/0.880	80C-P0870	D608-250
3,000	12,000	3.5	1/2	.80	0.860/0.880	80C-P0870	D608-500
3,000	12,000	4.0	5/8	1.00	1.035/1.055	80C-P1045	D610-250**
3,000	12,000	4.8	3/4	1.18	1.210/1.230	80C-P1220	D612-250**
3,000	12,000	6.0	1	1.48	1.515/1.535	80C-P1525	D616-250**

All above Parflex tooling requires silver die ring.

Exceeds SAE 100R1AT-USCG Marine Listed

HFS
FIRESCREEN®
HOSE



- Used in high temperature (to +250° F), medium pressure hydraulic lines on mobile equipment, machine tools, farm machinery, and other industrial applications

- All sizes rated at pressures and temperatures ABOVE comparable SAE 100R1 requirements

Tube: Elastomer

Reinforcement: One braid of high tensile steel wire

Cover: Smooth synthetic rubber-MSHA approved

Temperature Range: -40° F to +250° F

Brand (white ink): PARFLEX DAYCO HFSxx (ID) FIRESCREEN® 250° F xxxx PSI WP (MSHA #) MADE IN USA

Packaging: Plastic reels (nominal 250-feet/reel or nominal 500-feet/reel)

PERMANENT FITTING - SERIES HY (AVAILABLE THROUGH PARKER HOSE PRODUCTS DIVISION)

Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN)	Nom ID (IN)	Nom OD (IN)	Parflex HY Crimp Dia.	Parflex Crimp Die Part No.	Part No.
3,000	12,000	2.0	1/4	.50	0.570/0.590	80C-P0580	HFS04-250
3,000	12,000	2.0	1/4	.50	0.570/0.590	80C-P0580	HFS04-500
2,500	10,000	2.5	3/8	.66	0.730/0.750	80C-P0740	HFS06-250
2,500	10,000	2.5	3/8	.66	0.730/0.750	80C-P0740	HFS06-500
2,500	10,000	3.5	1/2	.77	0.835/0.855	80C-P0845	HFS08-250
2,500	10,000	3.5	1/2	.77	0.835/0.855	80C-P0845	HFS08-500
1,500	6,000	5.0	3/4	1.05	1.120/1.140	80C-P1130	HFS12-250
1,250	5,000	10.0	1	1.35	1.385/1.405	80C-P1395	HFS16-250

All above Parflex tooling requires silver die ring.

SAE 100R16-USCG
Marine Listed

HFS2 FIRESCREEN® HOSE



- Used in high pressure (similar to SAE 100R2) hydraulic lines on off-road construction equipment, machine tools, mining equipment, and other industrial applications

Tube: Elastomer

Reinforcement: One or two** braids of high tensile steel wire

Cover: Smooth synthetic rubber-MSHA approved

Temperature Range: -40° F to +212° F

Brand (white ink): PARFLEX DAYCO HFS2xx (ID) SAE 100R16 FIRESCREEN II® 2500 F xxxx PSI WP (MSHA #) MADE IN USA

Packaging: Plastic reels (nominal 250-foot/reel or nominal 500-foot/reel)

PERMANENT FITTING - SERIES HY (AVAILABLE THROUGH PARKER HOSE PRODUCTS DIVISION)

Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN)	No m ID (IN)	Nom OD (IN)	Parflex HY Crimp Dia.	Parflex Crimp Die Part No.	Part No.
5,000	20,000	2.0	1/4	.56	0.615/0.635	80C-P0625	HFS204-250**
5,000	20,000	2.0	1/4	.56	0.615/0.635	80C-P0625	HFS204-500**
4,000	16,000	2.5	3/8	.66	0.730/0.750	80C-P0740	HFS206-250
4,000	16,000	2.5	3/8	.66	0.730/0.750	80C-P0740	HFS206-500
3,500	14,000	3.5	1/2	.80	0.860/0.880	80C-P0870	HFS208-250
3,500	14,000	3.5	1/2	.80	0.860/0.880	80C-P0870	HFS208-500
2,750	11,000	4.0	5/8	.95	1.005/1.025	80C-P1015	HFS210-250
2,250	9,000	4.8	3/4	1.08	1.140/1.160	80C-P1150	HFS212-250
2,000	8,000	6.0	1	1.43	1.440/1.460	80C-P1450	HFS216-250**

All above Parflex tooling requires silver die ring.

Four spiral wire performance, Two wire braid reinforcement

HTB ELIMINATOR® HOSE



USCG Marine Listed

- Used for high pressure hydraulic applications where spiral wire reinforced hose might normally be used.

- Because of high quality materials and a unique manufacturing process, ELIMINATOR offers four-spiral wire hose performance in a high tensile two-wire braid construction.

- Provides excellent flexibility, consistent long length patterns, and cost savings versus comparable SAE 100R9 and SAE 100R12 spiral reinforced hoses.

- HTB HOSE REQUIRES "A" SERIES PARKER DIES AND BLACK DIE RING

Tube: Elastomer

Reinforcement: Two braids of high tensile steel wire

Cover: Smooth synthetic rubber-MSHA approved

Temperature Range: -40° F to +212° F

Brand (white ink): PARFLEX DAYCO HTBxx (ID) ELIMINATOR II® xxxx PSI WP (MSHA #) MADE IN USA

Packaging: Plastic reels (nominal 250-foot/reel)

PERMANENT FITTING - SERIES 43 (HTB04-250 CONTACT PARFLEX)

Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN)	Nom ID (IN)	Nom OD (IN)	Series 43 Crimp Diameter	Series 43 Crimp Die Part NO.	Part No.
7,000	28,000	4.0	1/4	.60	CONTACT PARFLEX		HTB04-250
5,500	22,000	6.0	3/8	.74	0.865/0.885	80C-A06	HTB06-250
5,000	20,000	7.0	1/2	.88	0.985/1.005	80C-A08	HTB08-250
4,000	16,000	8.0	5/8	1.01	1.100/1.120	80C-A10	HTB10-250
4,000	16,000	9.5	3/4	1.18	1.285/1.305	80C-A12	HTB12-250
3,500	14,000	12.0	1	1.48	1.630/1.650	80C-A16	HTB16-250

All above Parflex tooling requires black die ring.

Four spiral wire performance, Two wire braid reinforcement

M8 E-Z FLEX® HOSE



4000 PSI constant pressure

- Used for high pressure hydraulic applications where spiral wire reinforced hose might normally be used
- Because of high quality materials and a unique manufacturing process, E-Z FLEX offers four-spiral wire hose performance in a high tensile two-wire braid construction, with a constant 4000 PSI working pressure in each size.
- Provides excellent flexibility, consistent long length patterns, and cost savings versus comparable SAE 100R9 and SAE 100R12 spiral reinforced hoses

Tube: Elastomer

Reinforcement: Two braids of high tensile steel wire

Cover: Smooth synthetic rubber-MSHA approved

Temperature Range: -40° F to +250° F

Brand (white ink): PARFLEX DAYCO M8xx E-Z FLEX(R) (ID) 4000 PSI MAX WP 2500 F (MSHA #) MADE IN USA

Packaging: Plastic reels (nominal 250-feet/reel or nominal 500-feet/reel) Plastic reels (nominal 250-feet/reel)

PERMANENT FITTING - SERIES 43 (HTB04-250 CONTANT PARFLEX)

Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN)	Nom ID (IN)	Nom OD (IN)	Series 43 Crimp Diameter	Series 43 Crimp Die Part NO.	Part No.
4,000	16,000	2.5	3/8	.74	0.840/0.860	80C-M0850	M806-250
4,000	16,000	3.5	1/2	.88	1.000/1.020	80C-M1010	M808-250
4,000	16,000	4.0	5/8	1.05	1.160/1.180	80C-M1170	M810-250

All above Parflex tooling requires silver die ring.

Marine Steering Hose 1000 psi working pressure Low volumetric expansion

MSH



Construction: Elastomeric core tube, fiber braid reinforcement, abrasion-resistant urethane cover. Black, non-perforated cover is standard. All layers bonded for optimum kink resistance and flexibility.

Applications: Marine steering hose for flexibility, low volumetric expansion for rapid, accurate hydraulic response.

Temperature Range: -40°F to +212°F (-40°C to +100°C) except limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids.

Couplings: MS Series, swaged, crimped or reusable.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	I.D. Inches	Part No.
1000	4000	2 1/4	5/16	MSH-5
1000	4000	3	3/8	MSH-6

Change in length at working pressure is ± 2% maximum.

**Sewer Cleaning Hose
2000/3000 psi working
pressure**

**PSH/ HPSH/
3PSH**



Construction: Elastomeric core tube, fiber braid reinforcement and abrasion-resistant urethane cover. Standard cover is bright orange, non-perforated. All layers bonded. 3PSH has dark blue cover for easy identification.

Applications: Multi-purpose sewer cleaning hose designed for maximum durability in cleaning sanitary service lines. High strength tube and strong adhesive bonds for flexibility, kink resistance and high fatigue strength. Thick urethane cover for wear resistance.

Temperature Range: -40°F to +135°F (-40°C to +57°C) for water, to +212°F (+100°C) for petroleum based fluids.

Length Availability: To meet sewer hose requirements. PSH is available in single piece lengths up to 600 ft. For longer lengths contact factory.

Couplings: 58 Series, swaged or crimped.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D.	Hose I.D.	Part No.
2000	5000	3	0.98	5/8	PSH-10
2000	5000	3 1/2	1.14	3/4	PSH-12
2000	5000	4	1.43	1	PSH-16
2500	6250	3 1/2	1.14	3/4	HPSH-12
2500	7000	4	1.43	1	HPSH-16
3000	7500	3 1/2	1.16	3/4	3PSH-12
3000	7500	4	1.47	1	3PSH-16

**High Performance Marine
Power Tilt Hose
3000 psi working pressure**

PTH



Construction: Polymeric core tube, fiber braid with stainless steel wire overbraid for enhanced kink resistance and cut-through protection. Clear, bonded UV resistant urethane cover for abrasion resistance and long service in marine environments.

Applications: Power tilt mechanisms for outboard engines.

Temperature Range: -40°F to +200°F (-40°C to +93°C).

Couplings: 92 Series swaged or crimped.

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Nominal I.D. Inches	Part No.
3000	12000	3/4	3/16	PTH-3

Predator Sewer Cleaning Hose, 2,500 to 4,000 PSI working pressure

S4/S6/S9



Construction: Elastomer or polymer (+) tube, one or two (#) fiber braids and abrasion resistant polyurethane cover. **GRAY** is the Parker color that now identifies PREDATOR sewer cleaning hose and complementary Parker products (the Dayco identifying color was red).

Applications: Parker sewer cleaning hose products have been designed, manufactured and tested to meet the Specifications and Repair/Inspection Procedures for High Pressure Hose Used in Conjunction with Sewer/Catch Basin Cleaning Equipment developed under the sponsorship of the National Solid Waste Management Association (NSWMA) and the Waste Equipment Technology Association (WASTEC).

Temperature Range: -40°F to +135°F for water.

Length Availability: To meet sewer requirements, stocked lengths up to 800 Ft. Contact Parflex for factory lengths. Non-standard lengths are subject to MOQ/quotation;

Couplings: SQ, JJ, SQ and 58. HY and JJ are crimp-only fittings – available through the Parker Hose Products Division.

Note: Not for use in hydraulic applications. For water/slurry applications contact Parflex for chemical compatibility/recommendations.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose O.D. In.	I.D. In.	Part No.
4000	10000	4	0.89	1/2	S408
4000	10000	5	1.06	5/8	S410
2500	6250	4	1.14	3/4	S612
2500	6250	6	1.41	1	S616
2500	6250	12	1.78	1 1/4	S620#
2500	6250	15	2.1	1 1/2	S624+#
3000	7500	4	1.15	3/4	S912
3000	7500	8	1.47	1	S916

TFE Stainless-SAE100R14 Medium Pressure

919

PTFE tube, 304 SS outer braid (S246). For compressor discharge lines. Use with 90 Series Reusable Fittings and 90 & 91N Series Permanent Fittings.



Construction: Extruded PTFE core tube, 304 stainless steel wire braid for reinforcement and mechanical protection.

Application: TFE liner is inert to almost all chemicals. Outstanding flex fatigue and shock resistance for hydraulic systems. Smooth, low friction, non-stick inner surface and corrosion resistant wire. PTFE is flexible at low temperatures, non-aging and low moisture permeation. Can be used for steam up to 200 psi (+388°F).

Temperature Range: -100°F to +450°F (-73°C to +232°C).

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	Hose I.D.	Part No.
3,000	12000	2	3/16	919-4
3,000	12000	3	1/4	919-5
2,500	10000	4	5/16	919-6
2,000	8000	5	13/32	919-8
1,500	6000	6 1/2	1/2	919-10
1,200	5000	7 1/2	5/8	919-12
1,000	4000	9	7/8	919-16
625	2500	16	1 1/8	919-20

**Power Clean, 1200 to 1500
psi working pressure**

1035A



Construction: The hose consists of a smooth, seamless thermoplastic core tube specially compounded to be resistant to water, air and oil, one layer of fiber reinforcement and a non-bluing, oil, weather and abrasion resistant thermoplastic cover.

Applications: Hose specifically designed for 200°F water applications such as pressure washers and carpet cleaning equipment. Not for use with chlorinated solvents.

Temperature Range: -25°F to 212°F (-32°C to +100°C).

Couplings: 55 Series crimp* or swage.

*Use silver spacer ring

Note: The above hose is not intended for use in static discharge applications; i.e., airless paint spray.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	O.D. Maximum Inch	I.D. Nominal Inch	Part No.
1500	5000	5/8	0.52	1/4	1035A-4
1200	4800	7/8	0.65	3/8	1035A-6

**Power Clean, 1500 to 1750
psi working pressure**

1035HT



Construction: The hose consists of a smooth, seamless thermoplastic inner tube specially compounded to be resistant to water, air and oil, one layer of fiber reinforcement and a non-bluing, oil, weather and abrasion resistant perforated PFXcover.

Applications: Hose specifically designed for water applications such as carpet cleaning equipment. Not for use with chlorinated solvents.

Standard Colors: Bright yellow. Other colors special order.

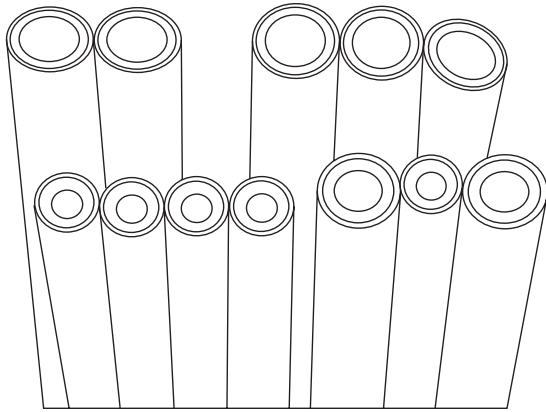
Temperature Range: -40°F to +230°F (-40°C to +110°C).

Fittings: 55 Series, swaged or crimped.

Maximum Working Pressure (P.S.I.)	Minimum Burst Pressure (P.S.I.)	Minimum Bend Radius	O.D. Maximum Inch	I.D. Nominal Inch	Part No.
1750	7000	1-1/2	0.51	1/4	1035HT-4
1500	6000	2	0.65	3/8	1035HT-6

Twin-Line and Multi-Line Hose Constructions

550H

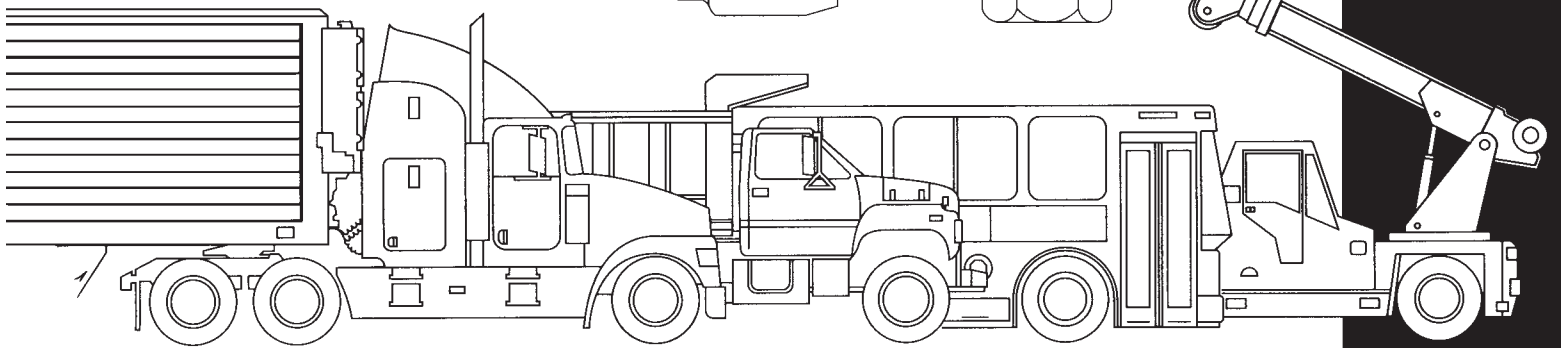
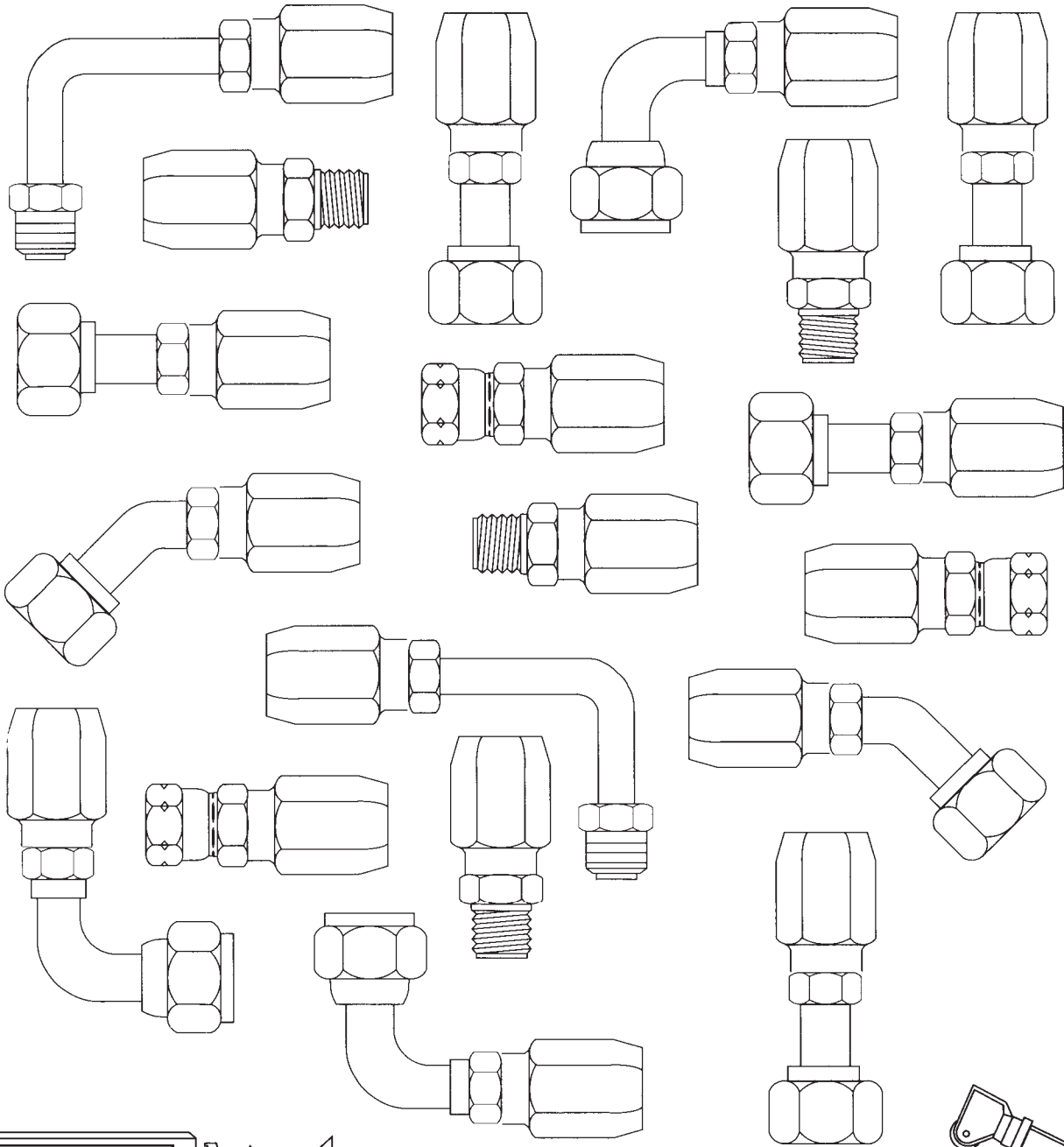


Parflex Twin-Line and Multi-Line can be constructed of various combinations of sizes and types of Parflex hoses. The configuration of permanently joined hoses makes for easier installation in multiple hose applications such as lift trucks, aerial lifts and hydraulic cranes.

For separating instructions and tooling see Tooling, accessories and installation section.

Hose I.D.	Part No.
1/4	550H-4-4
5/16	550H-5-5
3/8	550H-6-6
1/2	550H-8-8

Contact factory for other hose combinations.



General Description	pg. C2*
*See page 31 of the introductory section for “How to Order” information.	
Visual Index	pg. C4
20 Series	
Use with Parker SAE100R5, SAE J1402 All, and LPG Gas and Refrigerant Hoses. Hoses are: 201, 206, 225, 235, 261, 266, SS25UL, and 221FR. All 20 Series marked in accordance with D.O.T. FMVSS106 Type All. SAE 100R5 type hose construction. Non-mandrel type fittings do not require mandrel or adapters for field assembly.	pg. C19
21 Series (Non-Mandrel)	
Use with Parker SAE J1402 AI style hoses. Hoses are 213, 293 and 285.	pg. C28
22 Series (Mandrel)	
Use with Parker SAE100R5, SAE J1402 All, and LPG Gas and Refrigerant Hoses. Hoses are: 201, 206, 225, 235, 261, 266, SS25UL, and 221FR. All 22 Series marked in accordance with D.O.T. FMVSS106 Type All. SAE 100R5 type hose construction. Fittings -12 in size and smaller require use of mandrels to assemble to hose; swivel fittings -16 through -32 in size require use of assembly tool.	pg. C27
23 Series (Mandrel)	
Use with Parker SAE J1402 AI style hoses. Hoses are 213, 293 and 285. Fittings -12 and smaller require use of mandrels for assembly to hose. Sizes -16 through -32 require use of assembly tools.	pg. C35
30 Series	
Use with 301, 381 Hose. No Skive SAE 100R2 Type AT.	pg. C36
34 Series	
Use with 341 hose. No Skive SAE 100R9 Type AT.	pg. C46

42 Series

Use with 421, 481 Hose. No Skive SAE 100R1 - Type AT. Also used with 431 and 436 No Skive Compact Hose. SAE 100R16.

pg. C50**51 Series**

For use with 518C Hose.

pg. C58**82 Series**

Use with Push-Lok Hoses 801, 821, 831, and 836. Suitable for vacuum service. Available in brass, steel, and stainless steel. No hose clamps required.

pg. C10**88 Series**

For use with 881 and 811 Hose. SAE 100R4. Clamp-Type fittings in two clamp styles for either vacuum or low pressure service.

pg. C63**90 Series**







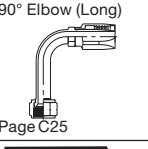
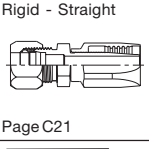

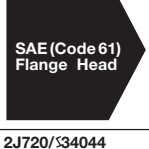
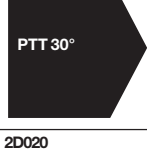





Use with 919 Hose. SAE 100R14 TFE Hose.






pg. C65**MS Series**

For use with MSH Marine Steering Hose.

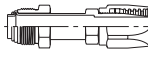
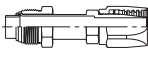


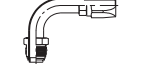
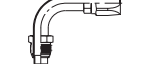
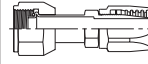
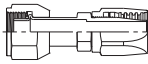
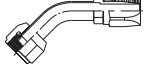
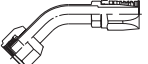


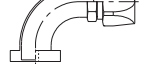

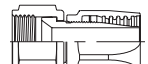


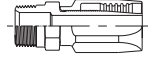
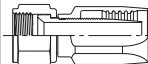
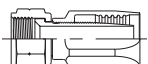
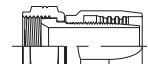
pg. C69

Note: Please refer to Catalogs 4400 and 4660 for further information.

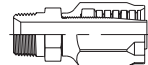
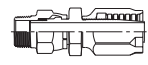
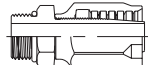
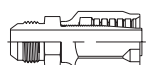
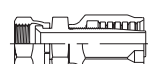
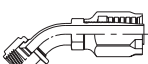

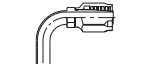
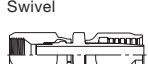

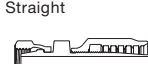










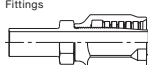
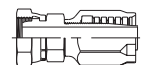
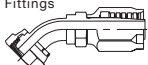

Reusable Hose Fittings-20 Series							
 Male Pipe NPTF Page C19	20120/3356/3326 Straight Page C19	 Male SAE JIC 37° Swivel Page C20	20320/3362 Rigid - Straight Page C20	 Female SAE JIC 37° Swivel Page C20	20620/3416/3417 Straight Page C20	23720/330000 45° Elbow Page C22	23920/330001 90° Elbow Page C23
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28120/330005 90° Elbow (Long) Page C25	 Ferrul-Fix (SAE Flareless) Page C25	21120 Rigid - Straight Page C21	 SAE Male Inverted Swivel Page C21	22820/327663 Straight Page C22	26720/327665 45° Elbow Page C24	26920/327667 90° Elbow Page C24	27120/327552 90° Elbow (Long) Page C24
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Reusable Hose Fittings- 21, 22 and 23 Series, and Group XV							
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 21 Series - PTT 30° Page C31	23221/724S Female PTT 30° Swivel Straight Page C31	 21 Series - SAE Male Inverted Flare Page C31	22821/27587S SAE Male Inverted Swivel Straight Page C31	26721/27659S SAE Male Inverted Swivel 45° Elbow Page C32	26921/27661S SAE Male Inverted Swivel 90° Elbow Page C32		
 21 Series - SAE Page C30	20821/725S Female SAE 45° Swivel Straight Page C30	27721/27233S Female SAE 45° Swivel 45° Elbow Page C30	24121/27229S Female JIC 37° Swivel 90° Elbow (Long) Page C30	24121/27232S Female JIC 37° Swivel 90° Elbow (Long) Page C30	27921/27234S Female SAE 45° Swivel 90° Elbow Page C31	28121/27235S Female SAE 45° Swivel 90° Elbow (Long) Page C31	


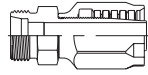

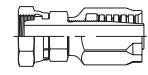
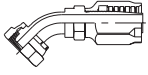
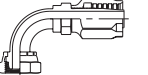

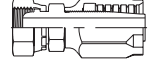

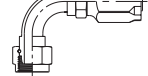

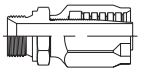
Reusable Hose Fittings- 21, 22 and 23 Series, and Group XV (Continued)

21 Series - Tube O-Ring	25S21/30395S Male Tube O-Ring Swivel Straight - Short Pilot  Page C32	24521/30385S Male Tube O-Ring Swivel Straight - Long Pilot  Page C32	25R21/30396S Male Tube O-Ring Swivel 45° Elbow - Short Pilot  Page C32	25P21/30386S Male Tube O-Ring Swivel 45° Elbow - Long Pilot  Page C33	25K21/30397S Male Tube O-Ring Swivel 90° Elbow - Short Pilot  Page C33	25M21/30387S Male Tube O-Ring Swivel 90° Elbow - Long Pilot  Page C33	25S21/30392S Female Tube O-Ring Swivel Straight - Short Pilot  Page C33
25921/30382S Female Tube O-Ring Swivel Straight - Long Pilot  Page C33	25H21/30393S Female Tube O-Ring Swivel 45° Elbow - Short Pilot  Page C34	25N21/30383S Female Tube O-Ring Swivel 45° Elbow - Long Pilot  Page C34	25T21/30394S Female Tube O-Ring Swivel 90° Elbow - Short Pilot  Page C34	25L21/30384S Female Tube O-Ring Swivel 90° Elbow - Long Pilot  Page C34	21 Series - Miscellaneous Fittings	22H21/32954S 2 Hole Rigid Flange 90° Elbow  Page C35	26121/7135S Male Air Brake  Page C35
23 Series - Mandrel Style	20623/7117S Female JIC 37° Swivel  Page C35	20823/7115B Female SAE 45° Swivel  Page C36	23223/71164 Female PTT 30° Swivel Straight  Page C36	22 Series- Male Pipe NPTF	20122/326 Straight  Page C27	22 Series- SAE JIC 37° Swivel	20622/319 Straight  Page C27
22 Series- SAE 45° Swivel	20822/323 Swivel - Straight  Page C28	22 Series- PTT 30° Swivel	23222/324 Swivel - Straight  Page C28				


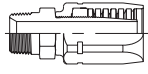

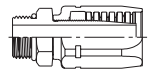

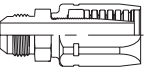

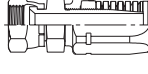

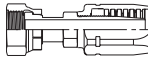
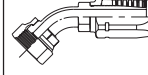
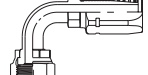
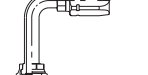

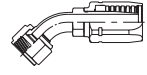
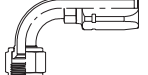


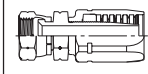

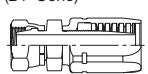

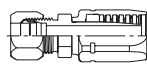

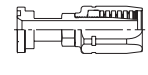
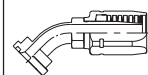
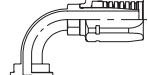
Reusable Hose Fittings-30 Series

Male Pipe NPTF	20130 Straight  Page C36	21330 Swivel-Straight  Page C39	SAE Straight Thread O-Ring	20530 Straight  Page C37	SAE JIC 37°	20330 Rigid - Straight  Page C37	
SAE JIC 37° Swivel	20630 Straight  Page C38	23730 45° Elbow  Page C40	23930 90° Elbow  Page C41	24130 90° Elbow (Long)  Page C41	24830 Under Pressure - Swivel  Page C41	SAE 45° Swivel	20830 Straight  Page C38
SAE Flareless Swivel	21230 Straight  Page C38	Ferrul Fix SAE Flareless	21130 Rigid - Straight  Page C38	SAE (Code 61) Flange Head	21530 Straight  Page C39	21730 45° Elbow  Page C39	21930 90° Elbow  Page C40
Female Seal-Lok® Swivel	21S30 Straight-Long  Page C42	21J730 45° Elbow  Page C42	21930 90° Elbow (Short)  Page C43	21J130 90° Elbow (Long)  Page C42	Metric Male Stud	2D030 20078 Light Series  Page C45	
Metric Standpipe	21D30 Light Series - Mates with EO "L" Series Fittings  Page C45	23D30 Heavy Series Mates with EO "S" Series Fittings  Page C46	Metric Swivel DIN 20078 Light Series Ball Nose	2C330 Mates with EO "L" Series Fittings  Page C43	2C430 45° Elbow - Mates with EO "L" Series Fittings  Page C44	2C530 90° Elbow - Mates with EO "L" Series Fittings  Page C44	


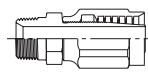

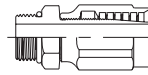

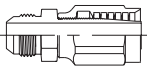

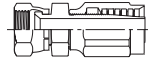
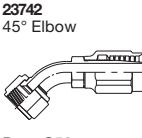
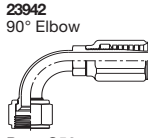

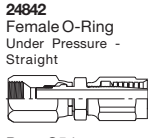

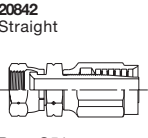

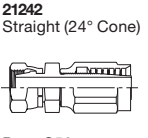



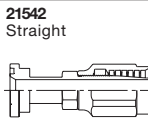
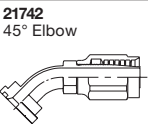
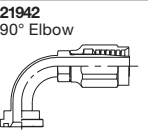
Reusable Hose Fittings-30 Series (Continued)

 <p>Metric Male Stud DIN 20078 Heavy Series</p>	<p>2D230 Rigid-Straight (24° Cone)</p>  <p>Page C45</p>	 <p>Metric Female Swivel DIN 20078 Heavy Series</p>	<p>2C630 Mates with EO "S" Series Fittings</p>  <p>Page C44</p>	<p>2C730 45° Elbow (Mates with EO "S" Series Fittings)</p>  <p>Page C44</p>	<p>2C830 90° Elbow (Mates with EO "S" Series Fittings)</p>  <p>Page C45</p>		
 <p>BSP Swivel Female Ballnose</p>	<p>29230 Straight</p>  <p>Page C42</p>	<p>2B130 45° Elbow</p>  <p>Page C43</p>	<p>2B230 90° Elbow</p>  <p>Page C43</p>	 <p>Male BSP Parallel</p>	<p>2D930 Rigid-Straight (60° Cone)</p>  <p>Page C46</p>		

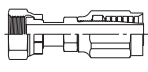

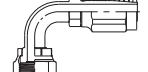

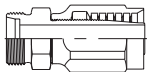
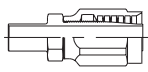
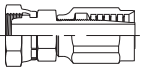
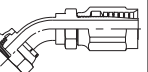
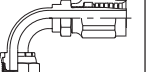
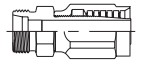



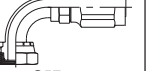
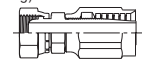

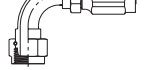
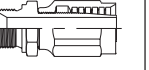
Reusable Hose Fittings-34 Series

 <p>Male NPTF Pipe</p>	<p>20134 Straight</p>  <p>Page C46</p>	 <p>SAE Straight Thread</p>	<p>20534 O-Ring</p>  <p>Page C47</p>	 <p>Male SAE JIC 37°</p>	<p>20334 Rigid - Straight</p>  <p>Page C46</p>	 <p>SAE JIC 37° Swivel</p>	<p>20634 Straight</p>  <p>Page C47</p>
 <p>Female Seal-Lok® Swivel</p>	<p>2JS34 Straight</p>  <p>Page C49</p>	<p>2J734 45° Elbow</p>  <p>Page C50</p>	<p>2J934 90° Elbow (Short)</p>  <p>Page C50</p>	<p>2J134 90° Elbow (Long)</p>  <p>Page C50</p>	 <p>Female SAE JIC 37° Swivel</p>	<p>23734 45° Elbow</p>  <p>Page C49</p>	<p>23934 90° Elbow</p>  <p>Page C49</p>
<p>24134 90° Elbow (Long)</p>  <p>Page C49</p>	 <p>SAE 45° Swivel</p>	<p>20834 Straight</p>  <p>Page C47</p>	 <p>SAE Flareless Swivel</p>	<p>21234 Swivel Straight (24° Cone)</p>  <p>Page C48</p>	 <p>Ferrul Fix SAE Flareless</p>	<p>21134 Ferrule-Fix</p>  <p>Page C47</p>	
 <p>SAE (Code 61) Flange Head</p>	<p>21534 Straight</p>  <p>Page C48</p>	<p>21734 45° Elbow</p>  <p>Page C48</p>	<p>21934 90° Elbow</p>  <p>Page C48</p>				

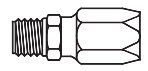
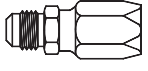
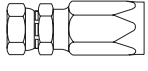
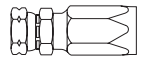

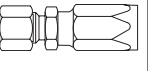
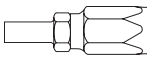
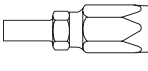
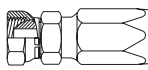
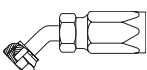

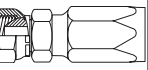
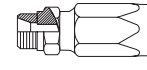
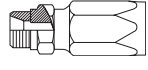
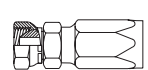

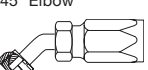
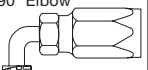

Reusable Hose Fittings-42 Series

 <p>Male NPTF Pipe</p>	<p>20142 Straight</p>  <p>Page C50</p>	 <p>SAE Straight Thread</p>	<p>20542 O-Ring</p>  <p>Page C51</p>	 <p>Male SAE JIC 37°</p>	<p>20342 Rigid - Straight</p>  <p>Page C51</p>	 <p>Female SAE JIC 37° Swivel</p>	<p>20642 Straight</p>  <p>Page C51</p>
<p>23742 45° Elbow</p>  <p>Page C53</p>	<p>23942 90° Elbow</p>  <p>Page C53</p>	<p>24142 90° Elbow (Long)</p>  <p>Page C53</p>	<p>24842 Female O-Ring Under Pressure - Straight</p>  <p>Page C54</p>	 <p>Female SAE 45° Swivel</p>	<p>20842 Straight</p>  <p>Page C51</p>	 <p>SAE Flareless Swivel</p>	<p>21242 Straight (24° Cone)</p>  <p>Page C52</p>
 <p>Ferrul-Fix (SAE Flareless)</p>	<p>21142 Rigid - Straight (24° Cone)</p>  <p>Page C52</p>	 <p>SAE (Code 61) Flange Head</p>	<p>21542 Straight</p>  <p>Page C52</p>	<p>21742 45° Elbow</p>  <p>Page C52</p>	<p>21942 90° Elbow</p>  <p>Page C53</p>		





Reusable Hose Fittings-42 Series (Continued)

Female Seal-Lok® Swivel	2JS42 Straight Page C54 	2J742 45° Elbow Page C54 	2J942 90° Elbow (Short) Page C55 	2J142 90° Elbow (Long) Page C54 	Male Stud DIN20078 Light Series	2D042 Rigid - Straight Page C56 	
Metric Standpipe Light Series	21D42 Mates with EO "L" Series Fittings Page C56 	Metric Swivel Female DIN20078 Light Series	2C342 Mates with EO "L" Series Fittings Page C55 	2C442 45° Elbow (Mates with EO "L" Series Fittings) Page C55 	2C542 90° Elbow (Mates with EO "L" Series Fittings) Page C55 	Male Stud DIN20078 Heavy Series	2D242 Mates with EO "S" Series Fittings Page C57 
Metric Standpipe Heavy Series	23D42 Rigid - Straight Page C57 	Metric Female DIN20078 Heavy Series	2C642 Straight (Mates with EO "S" Series Fittings) Page C56 	2C742 45° Elbow (Mates with EO "S" Series Fittings) Page C56 	2C842 90° Elbow (Mates with EO "S" Series Fittings) Page C57 		
BSP Swivel Female Ballnose	29242 Straight (24° Cone with O-Ring) Page C58 	2B142 45° Elbow Page C58 	2B242 90° Elbow Page C58 	Male BSP Parallel	2D942 Rigid - Straight (24° Cone) Page C58 		


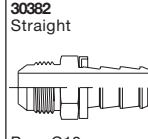

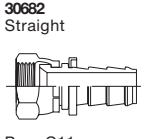
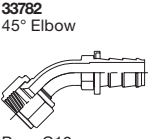
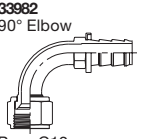
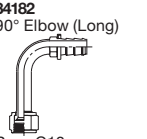

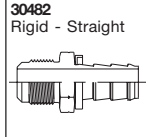

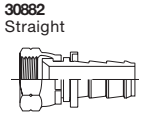
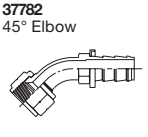
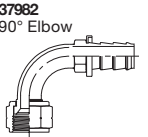

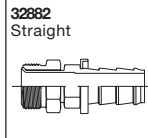
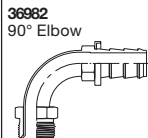
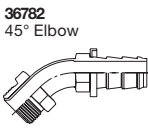

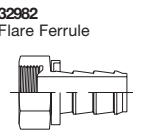



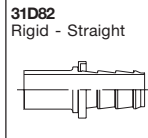





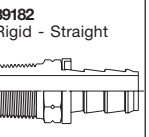
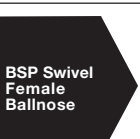
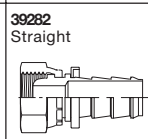
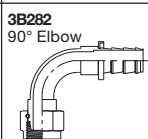
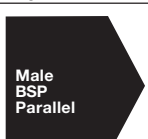
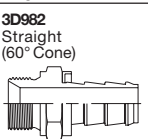


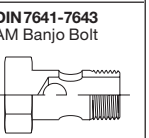
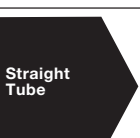
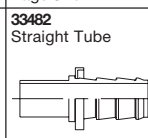
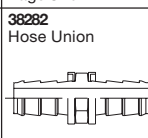

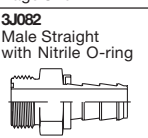
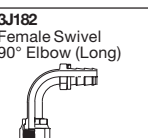
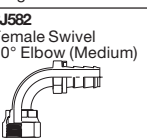
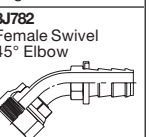


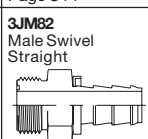
Reusable Hose Fittings-51 Series

Male Taper Pipe	20151 Rigid Page C58 	Male Flare	20351 JIC 37° Page C59 				
Female Swivels	20651 JIC 37° Page C59 	20851 SAE 45° Page C59 	23951 JIC 37° - 90° Elbow Page C59 	21151 Ferrul-Fix Page C59 	Standpipes	21D51 Light Page C61 	23D51 Heavy Page C61 
Metric Swivels DIN20078	2C351 Light Page C60 	2C451 45° Elbow Light Page C60 	2C551 90° Elbow Light Page C60 	2C651 Heavy (Without O-Ring) Page C60 	Stud DIN20078	2D051 Light Page C61 	2D251 Heavy Page C61 
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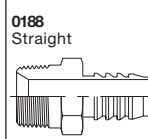
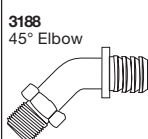
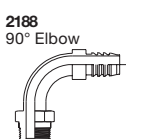

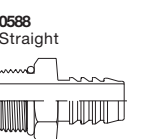

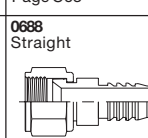

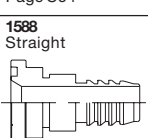
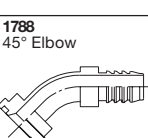
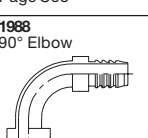




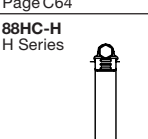
Reusable Hose Fittings-82 Series




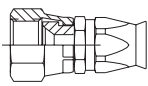
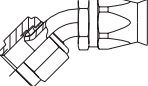



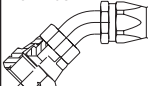
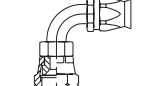




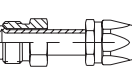
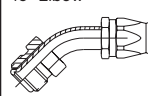
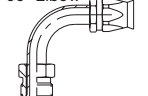

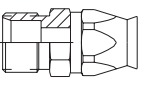
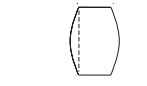
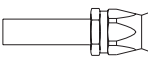

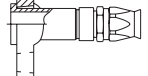

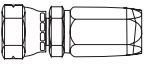
Male Pipe NPTF	30182 Straight Page C10 	31382 360° Swivel Page C11 	Female NPTF Pipe	30282 Female Pipe NPTF Page C10 	Female Pipe Swivel NPSM With Gasket	37G82 Straight Page C14 
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Reusable Hose Fittings-82 Series (Continued)

 Male SAE JIC 37° Page C10	 SAE JIC 37° Swivel Page C10	 SAE JIC 37° Swivel Page C11	 30682 Straight Page C11	 33782 45° Elbow Page C12	 33982 90° Elbow Page C12	 34182 90° Elbow (Long) Page C13	
 Male SAE 45° Page C10	 30482 Rigid - Straight Page C10	 SAE 45° Swivel Page C11	 30682 Straight Page C11	 37782 45° Elbow Page C13	 37982 90° Elbow Page C14		
 SAE Male Inverted Swivel Page C11	 32882 Straight Page C11	 36982 90° Elbow Page C13	 36782 45° Elbow Page C13	 SAE Female Inverted Rigid Page C12	 32982 Flare Ferrule Page C12	 Male Stud DIN 20078 Light Series Page C17	 3D082 Mates with EO "L" Series Fittings Page C17
 Metric Standpipe Light Series Page C17	 31D82 Rigid - Straight Page C17	 Metric Swivel Female DIN 20078 Light Series Page C16	 3C382 Mates with EO "L" Series Fittings Page C16	 3C482 45° Elbow (Mates with EO "L" Series Fittings) Page C17	 3C582 90° Elbow (Mates with EO "L" Series Fittings) Page C17	 Male BSP Tapered Page C18	 39182 Rigid - Straight Page C18
 BSP Swivel Female Ballnose Page C18	 39282 Straight Page C18	 3B282 90° Elbow Page C18	 Male BSP Parallel Page C18	 3D982 Straight (60° Cone) Page C18	 Banjo Page C19	 34982 Banjo Union Page C19	 DIN 7641-7643 AM Banjo Bolt Page C19
 Straight Tube Page C12	 33482 Straight Tube Page C12	 38282 Hose Union Page C14	 Seal-Lok® Page C14	 3J082 Male Straight with Nitrile O-ring Page C14	 3J182 Female Swivel 90° Elbow (Long) Page C14	 3J582 Female Swivel 90° Elbow (Medium) Page C15	 3J782 Female Swivel 45° Elbow Page C15
 3J982 Female Swivel 90° Elbow (Short) Page C15	 3JC82 Female Swivel Straight Page C16	 3JM82 Male Swivel Straight Page C16					

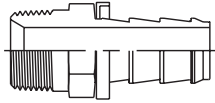
Reusable Hose Fittings-88 Series

 Male NPTF Pipe Page C63	 0188 Straight Page C63	 3188 45° Elbow Page C65	 2188 90° Elbow Page C64	 SAE Straight Thread with O-Ring Page C63	 0588 Straight Page C63		
 SAE JIC 37° Swivel Page C63	 0688 Straight Page C63	 SAE (Code 61) Flange Head Page C64	 1588 Straight Page C64	 1788 45° Elbow Page C64	 1988 90° Elbow Page C64		
 Hose Splicer Page C65	 8888 Hose Splicer Page C65	 Hose Clamps Page C65	 88HC Low Pressure Page C65	 88HC-H H Series Page C65			

Reusable Hose Fittings-90 Series						
 <p>Male Pipe</p>	<p>20190 Straight</p>  <p>Page C65</p>	 <p>Female SAE Swivel JIC 37°</p>	<p>20690 Straight</p>  <p>Page C66</p>	<p>23790 45° Elbow</p>  <p>Page C67</p>	<p>23990 90° Elbow</p>  <p>Page C67</p>	
 <p>Female SAE 45° Swivel</p>	<p>20890 Straight</p>  <p>Page C66</p>	<p>27790 45° Elbow</p>  <p>Page C68</p>	<p>27990 90° Elbow</p>  <p>Page C68</p>	 <p>Replacements</p>	<p>20090 Socket for Reusable Fittings</p>  <p>Page C68</p>	<p>090 Ferrule for 90 Series Reusable Fittings</p>  <p>Page C69</p>
 <p>SAE Male Inverted Swivel</p>	<p>22890 Straight</p>  <p>Page C66</p>	<p>26790 45° Elbow</p>  <p>Page C67</p>	<p>26990 90° Elbow</p>  <p>Page C68</p>	 <p>SAE Compression Airbrake</p>	<p>26190 Air Brake</p>  <p>Page C67</p>	<p>60 HAB Sleeve</p>  <p>Page C69</p>
<p>23490 Straight Tube - Rigid</p>  <p>Page C66</p>	 <p>Laundry Flange</p>	<p>2LF90</p>  <p>Page C68</p>				
<h2>Reusable Hose Fittings-MS Series</h2>						
 <p>MS Series (Brass)</p>	<p>208MS SAE 45° Swivel</p>  <p>Page C69</p>					

Male Pipe NPTF

30182



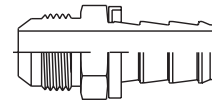
Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/8x27	1/4	0.63	30182-2-4B	30182-2-4*
1/8x27	3/8	0.63	30182-2-6B+	30182-2-6+*
1/4x18	1/4	0.82	30182-4-4B	30182-4-4*
1/4x18	3/8	0.88	30182-4-6B	30182-4-6*
1/4x18	1/2	0.88	30182-4-8B+	30182-4-8+*
3/8x18	1/4	0.88	30182-6-4B+	30182-6-4+
3/8x18	3/8	0.88	30182-6-6B	30182-6-6*
3/8x18	1/2	0.88	30182-6-8B	30182-6-8
1/2x14	1/4	1.13	—	30182-8-4+
1/2x14	3/8	1.13	30182-8-6B	30182-8-6+
1/2x14	3/8	1.13	—	30182-8-6C
1/2x14	1/2	1.13	30182-8-8B	30182-8-8*
1/2x14	5/8	1.13	30182-8-10B	30182-8-10
1/2x14	3/4	1.13	30182-8-12B	30182-8-12+
3/4x14	1/2	1.16	30182-12-8B	—
3/4x14	5/8	1.16	—	30182-12-10+
3/4x14	3/4	1.16	30182-12-12B	30182-12-12
1x11-1/2	1/2	1.51	30182-16-8B	30182-16-8C+
1x11-1/2	1	1.61	30182-16-16B+	30182-16-16+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 30182-2-4C.

+Non-standard.

Male SAE JIC 37°

30382



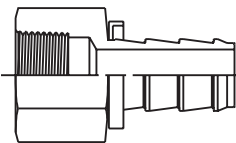
Hose Size	Tube Size	Tube Thread	Cut-Off Allow.	Brass Part No.	Steel Part No.
-4	1/4	7/16x20	0.81	30382-4-4B+	30382-4-4
-4	1/4	7/16x20	0.81	—	30382-4-4C+
-6	1/4	7/16x20	0.81	30382-4-6B+	—
-4	5/16	1/2x20	0.84	30382-5-4B+	30382-5-4
-4	3/8	9/16x18	0.89	30382-6-4B+	30382-6-4+
-6	3/8	9/16x18	0.88	30382-6-6B	30382-6-6
-8	3/8	9/16x18	0.88	30382-6-8B+	30382-6-8+
-8	1/2	3/4x16	1.01	30382-8-8B+	30382-8-8+*
-12	1/2	3/4x16	1.07	—	30382-8-12C+
-8	5/8	7/8x14	1.17	—	30382-10-8+
-10	5/8	7/8x14	1.17	30382-10-10B+	30382-10-10+
-12	3/4	1-1/16x12	1.27	30382-12-12B+	30382-12-12+
-16	1	1-5/16x12	1.65	30382-16-16B+	30382-16-16+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 30382-8-8C.

+Non-standard.

Female Pipe NPTF

30282

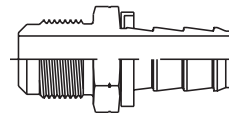


Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/8x27	-4	0.81	30282-2-4B+	30282-2-4+
1/4x18	-4	0.81	30282-4-4B	30282-4-4
1/4x18	-6	0.85	30282-4-6B+	30282-4-6+
3/8x18	-6	0.92	30282-6-6B	—
1/2x14	-8	1.11	30282-8-8B	—
1/2x14	-10	1.11	—	30282-8-10+
3/4x14	-10	1.09	—	30282-12-10+
3/4x14	-12	1.15	—	30282-12-12+

+Non-standard.

Male SAE 45°

30482



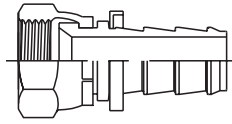
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
7/16x20	1/4	-4	0.76	30482-4-4B	30482-4-4+
7/16x20	1/4	-6	0.89	30482-4-6B+	—
1/2x20	5/16	-4	0.85	30482-5-4B	30482-5-4+
1/2x20	5/16	-6	0.95	30482-5-6B+	30482-5-6+
5/8x18	3/8	-6	0.94	30482-6-6B	30482-6-6+
3/4x16	1/2	-8	1.10	30482-8-8B	30482-8-8+
7/8x14	5/8	-10	1.25	—	30482-10-10+
1-1/16x14	3/4	-12	1.41	—	30482-12-12+

+Non-standard.

Notch in Hex for SAE identification on size -6.

SAE JIC 37° Swivel

30682



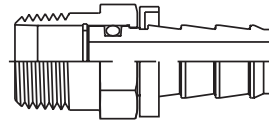
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
7/16x20	1/4	-4	0.76	30682-4-4B	30682-4-4*
7/16x20	1/4	-8	0.76	30682-4-8B+	—
1/2x20	5/16	-4	0.83	30682-5-4B	30682-5-4
1/2x20	5/16	-4	0.83	—	30682-5-4C+
1/2x20	5/16	-6	0.83	30682-5-6B+	—
9/16x18	3/8	-4	0.86	30682-6-4B	30682-6-4+*
9/16x18	3/8	-6	0.85	30682-6-6B	30682-6-6 *
9/16x18	3/8	-8	0.85	30682-6-8B+	30682-6-8+
3/4x16	1/2	-6	0.96	30682-8-6B	30682-8-6+*
3/4x16	1/2	-8	0.96	30682-8-8B	30682-8-8 *
3/4x16	1/2	-10	0.96	—	30682-8-10+
7/8x14	5/8	-8	0.98	30682-10-8B	30682-10-8+
7/8x14	5/8	-10	0.98	30682-10-10B	30682-10-10 *
1-1/16x12	3/4	-8	1.20	30682-12-8B+	30682-12-8+
1-1/16x12	3/4	-12	1.20	30682-12-12B	30682-12-12*
1-3/16x12	7/8	-12	1.24	—	30682-14-12+
1-5/16x12	1	-12	1.33	30682-16-12B+	—
1-5/16x12	1	-16	1.32	30682-16-16B+	30682-16-16+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 30682-4-4C

+Non-standard.

Male Pipe 360° Swivel NPTF

31382

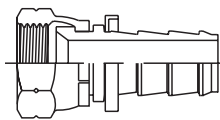


Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/8x27	-4	2.05	—	31382-2-4+
1/8x27	-6	2.06	—	31382-2-6+
1/4x18	-4	0.85	31382-4-4B+	31382-4-4
1/4x18	-4	0.85	—	31382-4-4C+
1/4x18	-6	1.80	—	31382-4-6+
3/8x18	-6	0.89	—	31382-6-6
3/8x18	-6	0.89	—	31382V-6-6C+
1/2x14	-8	1.15	—	31382-8-8
1/2x14	-8	1.15	—	31382-8-8C+
1/2x14	-8	1.15	—	31382-8-8-SM+
1/2x14	-10	2.16	—	31382-8-10+
3/4x14	-12	2.25	—	31382-12-12+

+Non-standard.

SAE 45° Swivel

30882



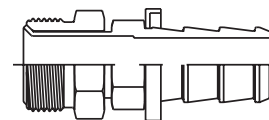
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
7/16x20	1/4	-4	0.76	30882-4-4B	30882-4-4
1/2x20	5/16	-4	0.83	30882-5-4B	30882-5-4
1/2x20	5/16	-4	0.83	—	30882-5-4C+
5/8x18	3/8	-4	0.92	—	30882-6-4+
5/8x18	3/8	-6	0.90	30882-6-6B	30882-6-6
5/8x18	3/8	-8	0.90	—	30882-6-8+
3/4x16	1/2	-6	0.96	30882-8-6B	30882-8-6+*
3/4x16	1/2	-8	0.98	30882-8-8B	30882-8-8
7/8x14	5/8	-8	1.09	30882-10-8B	—
7/8x14	5/8	-10	1.09	30882-10-10B	30882-10-10
1-1/16x14	3/4	-12	1.19	30882-12-12B	30882-12-12

*Also available in 316 stainless steel. Add "C" to part no.
Example: 30882-8-6C

+Non-standard.

SAE Male Inverted Swivel

32882

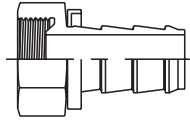


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
3/8x24	3/16	-4	1.41	32882-3-4
7/16x24	1/4	-4	1.40	32882-4-4
1/2x20	5/16	-4	1.56	32882-5-4
1/2x20	5/16	-6	1.56	32882-5-6+
5/8x18	3/8	-6	1.68	32882-6-6
3/4x18	1/2	-8	1.78	32882-8-8
7/8x18	5/8	-10	1.92	32882-10-10
1-1/16x16	3/4	-12	1.42	32882-12-12+

+Non-standard.

SAE Female Inverted Rigid

32982

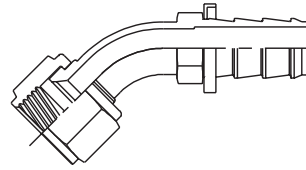


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.
3/8x24	3/16	-4	0.43	32982-3-4B
7/16x24	1/4	-4	0.43	32982-4-4B
1/2x20	5/16	-4	0.45	32982-5-4B
1/2x20	5/16	-6	0.50	32982-5-6B+
5/8x18	3/8	-6	0.54	32982-6-6B
3/4x18	1/2	-6	0.57	32982-8-6B+
3/4x18	1/2	-8	0.57	32982-8-8B
1-1/6x16	3/4	-12	0.68	32982-12-12B+

+Non-standard.

SAE JIC 37° Swivel
45° Elbow

33782

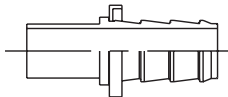


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.04	33782-4-4
9/16x18	3/8	-6	1.20	33782-6-6
3/4x16	1/2	-8	1.53	33782-8-8
3/4x16	1/2	-8	1.51	33782-8-8C+
7/8x14	5/8	-8	1.58	33782-10-8+
7/8x14	5/8	-10	1.59	33782-10-10+
1-1/16x12	3/4	-12	1.91	33782-12-12+

+Non-standard.

Straight Tube

33482



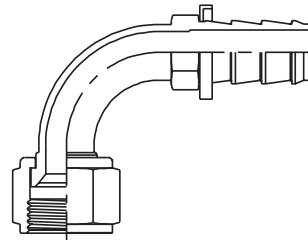
Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
3/16	-4	0.87	33482-3-4B	—
1/4	-4	1.13	33482-4-4B	33482-4-4C
5/16	-4	1.19	33482-5-4B	—
5/16	-8	1.22	33482-5-8B+	—
3/8	-4	1.34	—	33482-6-4+
3/8	-6	1.33	33482-6-6B	33482-6-6C
1/2	-8	1.10	33482-8-8B	33482-8-8C
5/8	-10	1.17	33482-10-10B	33482-10-10C+
3/4	-12	1.17	33482-12-12B+	33482-12-12C+

Used with flareless type fittings.

+Non-standard.

SAE JIC 37° Swivel 90°
Elbow

33982

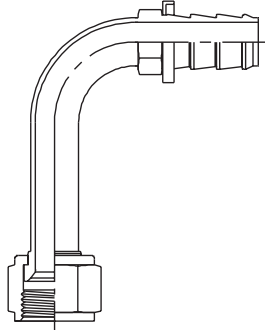


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	0.85	33982-4-4
1/2x20	5/16	-4	1.13	33982-5-4+
9/16x18	3/8	-4	1.08	33982-6-4+
9/16x18	3/8	-6	1.09	33982-6-6
3/4x16	1/2	-6	1.27	33982-8-6+
3/4x16	1/2	-8	1.29	33982-8-8
3/4x16	1/2	-8	1.29	33982-8-8C+
7/8x14	5/8	-8	1.43	33982-10-8+
7/8x14	5/8	-10	1.45	33982-10-10+
1-1/16x12	3/4	-10	1.81	33982-12-10+
1-1/16x12	3/4	-12	1.83	33982-12-12
1-3/16x12	7/8	-12	1.81	33982-14-12+

+Non-standard.

SAE JIC 37° Swivel 90° Elbow (Long)

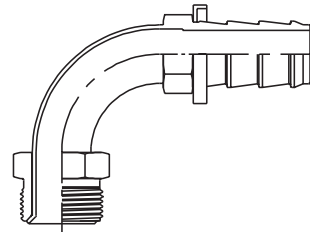
34182



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	0.78	34182-4-4
9/16x18	3/8	-6	1.08	34182-6-6

SAE Male Inverted Swivel 90° Elbow

36982

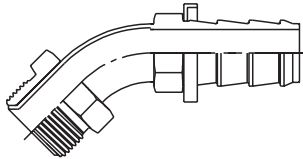


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x24	1/4	-4	1.25	36982-4-4
1/2x20	5/16	-4	1.38	36982-5-4
5/8x18	3/8	-6	1.41	36982-6-6
5/8x18	3/8	-10	1.43	36982-6-10+
3/4x18	1/2	-8	1.49	36982-8-8+

+Non-standard.

SAE Male Inverted Flare Swivel 45° Elbow

36782

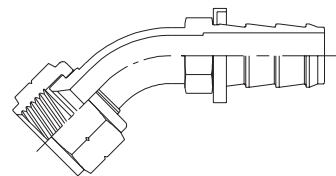


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x24	1/4	-4	1.10	36782-4-4
5/8x18	3/8	-6	1.75	36782-6-6
5/8x18	3/8	-6	1.75	36782-6-6C+

+Non-standard.

JIC Female 45° Swivel 45° Elbow

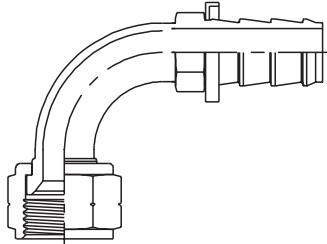
37782



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.04	37782-4-4
5/8x18	3/8	-6	1.18	37782-6-6
3/4x16	1/2	-8	1.53	37782-8-8

SAE 45° Swivel
90° Elbow

37982



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	0.85	37982-4-4
5/8x18	3/8	-6	1.08	37982-6-6
3/4x16	1/2	-8	1.28	37982-8-8

Notch in Hex for SAE identification on Size -6.

Female Pipe Swivel NPSM
With Gasket

37G82

Pipe Thread	Hose Size	Cut-Off Allow.	Steel Part No.
1/4x18	-4	0.79	37G82-4-4
1/4x18	-6	0.80	37G82-4-6
3/8x18	-6	0.85	37G82-6-6
1/2x14	-8	1.02	37G82-8-8
1/2x14	-10	1.02	37G82-8-10
3/4x14	-12	1.08	37G82-12-12



Mates with male pipe threads with or without 30° chamfer.

Hose Union

38282



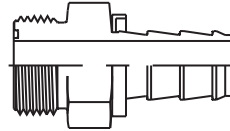
Hose Size	Brass Part No.	Steel Part No.
-4	38282-4-4B	38282-4-4*
-6	38282-6-6B	38282-6-6*
-8	38282-8-8B	38282-8-8
-8	—	38282-8-8C+
-10	38282-10-10B+	38282-10-10
-12	38282-12-12B+	38282-12-12

*Also available in 316 stainless steel. Add "C" to part no. Example: 38282-4-4C.

+Non-standard.

Male Seal-Lok Straight
with Nitrile O-ring

3J082



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
11/16x16	3/8	-6	0.85	3J082-6-6-SM
13/16x16	1/2	-8	0.86	3J082-8-8
13/16x16	1/2	-8	0.86	3J082-8-8-SM
13/16x16	1/2	-10	0.86	3J082-8-10-SM+
1x14	5/8	-8	1.07	3J082-10-8-SM+
1x14	5/8	-10	1.12	3J082-10-10-SM
1-3/16x12	3/4	-12	1.24	3J082-12-12+
1-3/16x12	3/4	-12	1.24	3J082-12-12-SM+

Note: Fittings with "SM" suffix have metric hex.

Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

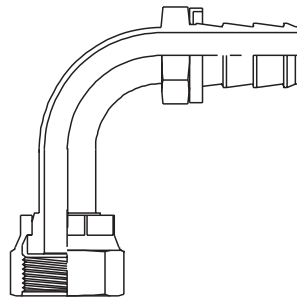
Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

Note: Part number 3JM82 is 3J082 without Nitrile O-ring.

+Non-standard.

Female Seal-Lok Swivel
90° Elbow (Long)

3J182



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	0.80	3J182-4-4
9/16x18	1/4	-4	0.80	3J182-4-4-SM+
11/16x16	3/8	-6	0.95	3J182-6-6
11/16x16	3/8	-6	0.95	3J182-6-6-SM+
13/16x16	1/2	-6	1.11	3J182-8-6-SM+
13/16x16	1/2	-8	1.11	3J182-8-8
13/16x16	1/2	-8	1.11	3J182-8-8-SM
1x14	5/8	-10	1.31	3J182-10-10+
1x14	5/8	-10	1.31	3J182-10-10-SM+

Note: Fittings with "SM" suffix have metric hex.

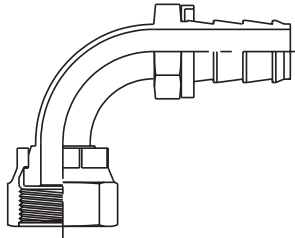
Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Medium)**

3J582



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
1x14	5/8	-10	1.31	3J582-10-10+
1x14	5/8	-10	1.31	3J582-10-10-SM

Note: Fittings with "SM" suffix have metrix hex.

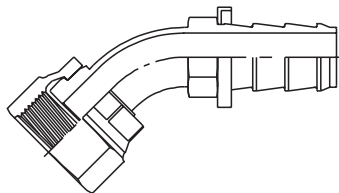
Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

+Non-standard.

**Female Seal-Lok Swivel
45° Elbow**

3J782



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	0.99	3J782-4-4
9/16x18	1/4	-4	1.19	3J782-4-4C+
9/16x18	1/4	-4	0.99	3J782-4-4-SM+
11/16x16	3/8	-6	1.09	3J782-6-6
11/16x16	3/8	-6	1.09	3J782-6-6-SM+
13/16x16	1/2	-6	1.29	3J782-8-6+
13/16x16	1/2	-8	1.36	3J782-8-8
13/16x16	1/2	-8	1.36	3J782-8-8-SM
1x14	5/8	-10	1.50	3J782-10-10
1x14	5/8	-10	1.50	3J782-10-10-SM+
1-3/16x12	3/4	-12	1.97	3J782-12-12
1-3/16x12	3/4	-12	1.97	3J782-12-12-SM+

Note: Fittings with "SM" suffix have metrix hex.

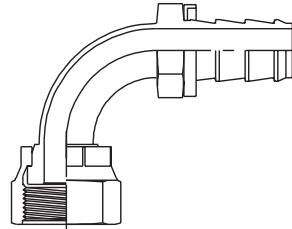
Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Short)**

3J982



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	0.80	3J982-4-4
9/16x18	1/4	-4	0.80	3J982-4-4-SM+
11/16x16	3/8	-6	0.95	3J982-6-6
11/16x16	3/8	-6	0.95	3J982-6-6-SM
11/16x16	3/8	-8	1.04	3J982-6-8
13/16x16	1/2	-6	1.04	3J982-8-6
13/16x16	1/2	-8	1.11	3J982-8-8
13/16x16	1/2	-8	1.11	3J982-8-8-SM
13/16x16	1/2	-10	1.29	3J982-8-10-SM
1x14	5/8	-10	1.31	3J982-10-10
1x14	5/8	-10	1.31	3J982-10-10-SM
1-3/6x12	3/4	-12	1.82	3J982-12-12

Note: Fittings with "SM" suffix have metrix hex.

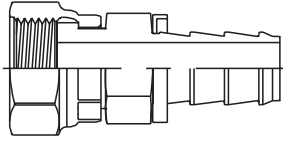
Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

+Non-standard.

Female Seal-Lok Swivel Straight

3JC82



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
9/16x18	1/4	-4	0.65	—	3JC82-4-4*
9/16x18	1/4	-4	0.66	—	3JC82-4-4-SM+
11/16x16	3/8	-6	0.69	—	3JC82-6-6*
11/16x16	3/8	-6	0.70	—	3JC82-6-6-SM
13/16x16	1/2	-6	0.76	—	3JC82-8-6
13/16x16	1/2	-6	0.80	—	3JC82-8-6-SM+
13/16x16	1/2	-8	0.75	—	3JC82-8-8*
13/16x16	1/2	-8	0.76	—	3JC82-8-8-SM
13/16x16	1/2	-10	0.81	—	3JC82-8-10+
13/16x16	1/2	-10	0.81	—	3JC82-8-10-SM
1x14	5/8	-8	0.95	—	3JC82-10-8-SM
1x14	5/8	-10	0.96	3JC82-10-10B+	3JC82-10-10
1x14	5/8	-10	0.95	—	3JC82-10-10C+
1x14	5/8	-10	0.95	—	3JC82-10-10-SM
1x14	5/8	-12	0.96	—	3JC82-10-12+
1-3/16x12	3/4	-12	1.18	—	3JC82-12-12*
1-3/16x12	3/4	-12	1.19	—	3JC82-12-12-SM+
1-7/16x12	1	-16	1.16	3JC82-16-16B+	3JC82-16-16+

Note: Fittings with "SM" suffix have metric hex.

Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

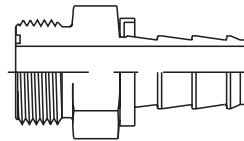
Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

*Also available in 316 stainless steel. Add "C" to part no.
Example: 3JC82-4-4C.

+Non-standard.

Male Seal-Lok Swivel Straight

3JM82



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
11/16x16	3/8	-6	0.84	3JM82-6-6+
11/16x16	3/8	-6	0.84	3JM82-6-6-SM
13/16x16	1/2	-8	0.85	3JM82-8-8
13/16x16	1/2	-8	0.85	3JM82-8-8-SM
13/16x16	1/2	-10	0.85	3JM82-8-10-SM+
1x14	5/8	-8	1.12	3JM82-10-8-SM+
1x14	5/8	-10	1.12	3JM82-10-10-SM
1-3/16x12	3/4	-10	1.23	3JM82-12-10-SM+
1-3/16x12	3/4	-12	1.23	3JM82-12-12+
1-3/16x12	3/4	-12	1.23	3JM82-12-12-SM+

Note: Fittings with "SM" suffix have metric hex.

Note: Seal-Lok torque tables are provided in Section G of the Hose Products Division 4400 Catalog USA February 2000.

Note: O-rings are listed in Section F of the Hose Products Division 4400 Catalog USA February 2000.

+Non-standard.

Metric Swivel Female DIN 20078 Light Series

3C382

Mates with EO "L" Series Fittings

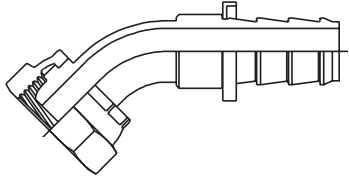


Tube Size mm	Hose Dash Size	Hose Size Inch	Metric Thread Size mm	Cut-Off Allow. mm	Part No.
6	-4	1/4	M12x1.5	14	3C382-6-4
8	-4	1/4	M14x1.5	14	3C382-8-4
10	-6	3/8	M16x1.5	14	3C382-10-6
12	-6	3/8	M18x1.5	14	3C382-12-6
15	-8	1/2	M22x1.5	16	3C382-15-8
18	-10	5/8	M26x1.5	16	3C382-18-10
22	-12	3/4	M30x2	16	3C382-22-12

**Metric Swivel Female
DIN 20078 Light Series
45° Elbow**

3C482

Mates with EO "L" Series Fittings

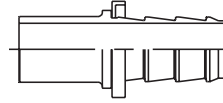


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	33	3C482-6-4
M14x1.5	8	-4	1/4	34	3C482-8-4
M16x1.5	10	-6	3/8	36	3C482-10-6
M18x1.5	12	-6	3/8	37	3C482-12-6
M22x1.5	15	-8	1/2	47	3C482-15-8
M26x1.5	18	-10	5/8	59	3C482-18-10
M30x2	22	-12	3/4	53	3C482-22-12

Metric Standpipe Light Series

31D82

Mates with EO "L" Series Fittings



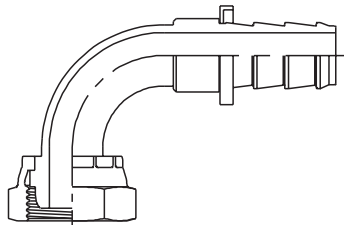
Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
6	-4	1/4	25	31D82-6-4
8	-4	1/4	25	31D82-8-4
10	-6	3/8	26	31D82-10-6
12	-6	3/8	27	31D82-12-6
15	-8	1/2	28	31D82-15-8
18	-10	5/8	28	31D82-18-10
22	-12	3/4	31	31D82-22-12

+Non-standard.

**Metric Swivel Female
DIN 20078 Light Series
90° Elbow**

3C582

Mates with EO "L" Series Fittings



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	22	3C582-6-4
M14x1.5	8	-4	1/4	24	3C582-8-4
M16x1.5	10	-6	3/8	26	3C582-10-6
M18x1.5	12	-6	3/8	26	3C582-12-6
M22x1.5	15	-8	1/2	37	3C582-15-8
M26x1.5	18	-10	5/8	48	3C582-18-10
M30x2	22	-12	3/4	48	3C582-22-12

**Male Stud DIN 20078
Light Series**

3D082

Mates with EO "L" Series Fittings

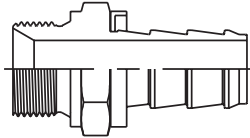


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Brass Part No.	Steel Part No.
M12x1.5	6	-4	1/4	14	—	3D082-6-4
M12x1.5	6	-6	3/8	18	—	3D082-6-6-SA+
M14x1.5	8	-4	1/4	15	—	3D082-8-4
M16x1.5	10	-6	3/8	16	—	3D082-10-6
M16x1.5	10	-8	1/2	18	3D082-10-8B-SP01+	—
M18x1.5	12	-6	3/8	17	—	3D082-12-6
M22x1.5	15	-8	1/2	18	—	3D082-15-8
M26x1.5	18	-10	5/8	20	—	3D082-18-10
M30x2	22	-12	3/4	21	—	3D082-22-12

+Non-standard.

Male BSP Parallel

3D982



BSP Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
1/8x28	-4	1/4	16	3D982-2-4
1/4x19	-4	1/4	21	3D982-4-4
1/4x19	-6	3/8	21	3D982-4-6
3/8x19	-6	3/8	22	3D982-6-6
1/2x14	-8	1/2	25	3D982-8-8
1/2x14	-8	1/2	25	3D982-8-8C+
1/2x14	-10	5/8	24	3D982-8-10
5/8x14	-10	5/8	27	3D982-10-10
3/4x14	-12	3/4	27	3D982-12-12

+Non-standard.

BSP Swivel Female Ballnose

39282



BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/4x19	-4	1/4	0.55	39282-4-4B+	39282-4-4
3/8x19	-6	3/8	0.55	39282-6-6B	39282-6-6
1/2x14	-8	1/2	1.06	—	39282-8-8
5/8x14	-10	5/8	1.18	—	39282-10-10+
3/4x14	-12	3/4	1.42	—	39282-12-12

+Non-standard.

Male BSP Tapered

39182

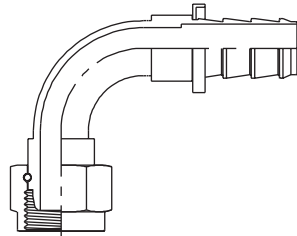


BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/4x19	-4	1/4	0.83	39182-4-4B	39182-4-4
1/4x19	-4	1/4	0.83	—	39182-4-4C+
1/4x19	-6	3/8	0.94	39182-4-6B	—
3/8x19	-6	3/8	0.98	39182-6-6B	39182-6-6
3/8x19	-6	3/8	0.94	—	39182-6-6C-SA+
3/8x19	-8	1/2	0.98	39182-6-8B	—
1/2x14	-8	1/2	1.10	39182-8-8B	39182-8-8
1/2x14	-8	1/2	1.10	—	39182-8-8C+
3/4x14	-10	5/8	1.14	39182-12-10B	—
3/4x14	-12	3/4	1.22	39182-12-12B	39182-12-12
3/4x14	-12	3/4	1.22	—	39182-12-12C-SA+

+Non-standard.

BSP Swivel Female 90° Elbow - Ballnose

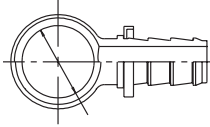
3B282



Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.02	3B282-4-4
3/8x19	-6	3/8	1.18	3B282-6-6
1/2x14	-8	1/2	1.57	3B282-8-8
5/8x14	-10	5/8	1.57	3B282-10-10
3/4x14	-12	3/4	2.2	3B282-12-12

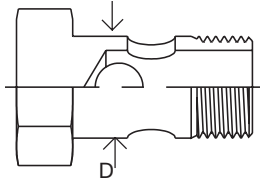
Banjo Union

34982



Bolt Hole mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
8	-4	1/4	0.63	34982-8-4
10	-4	1/4	0.71	34982-10-4
12	-4	1/4	0.79	34982-12-4
12	-6	3/8	0.79	34982-12-6
14	-4	1/4	0.87	34982-14-4
14	-6	3/8	0.91	34982-14-6
16	-6	3/8	0.98	34982-16-6
18	-8	1/2	1.06	34982-18-8

AM Banjo Bolt (DIN-7643)

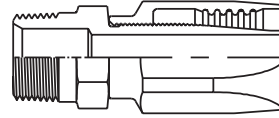


Banjo Size mm	Bolt Metric Thread	Bolt Part No.	Copper Washers (2 required)
8	M8x1	AM-03	853009-8
10	M10x1	AM-04	853009-10
12	M12x1.5	AM-06	853009-12
14	M14x1.5	AM-08	853009-14
16	M16x1.5	AM-10	853009-16
18	M18x1.5	AM-13	853009-18
22	M22x1.5	AM-16	853009-22
26	M26x1.5	AM-20	853009-26
30	M30x1.5	AM-30	853009-30

Male Pipe NPTF

20120

(Σ 356 & Σ 326)



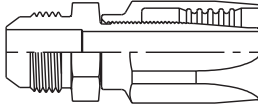
Hose Size	Pipe Thread	Cut-Off Allow.	Brass Part No.	Steel Part No.
-4	1/8x27	0.94	—	20120-2-4
-4	1/8x27	0.94	—	20120-2-4C+
-5	1/8x27	0.99	20120-2-5B+	20120-2-5
-4	1/4x18	1.15	—	20120-4-4
-4	1/4x18	1.15	—	20120-4-4C+
-5	1/4x18	1.18	20120-4-5B+	20120-4-5
-6	1/4x18	1.19	—	20120-4-6
-6	1/4x18	1.19	—	20120-4-6C+
-4	3/8x18	1.22	—	20120-6-4+
-5	3/8x18	1.27	—	20120-6-5+
-6	3/8x18	1.28	—	20120-6-6
-6	3/8x18	1.28	—	20120-6-6C+
-8	3/8x18	1.39	—	20120-6-8
-8	1/2x14	1.64	—	20120-8-8
-8	1/2x14	1.64	—	20120-8-8C+
-10	1/2x14	1.66	—	20120-8-10
-10	1/2x14	1.66	—	20120-8-10C+
-12	1/2x14	1.75	—	20120-8-12+
-8	3/4x14	1.71	—	20120-12-8C+
-10	3/4x14	1.73	—	20120-12-10
-12	3/4x14	1.75	—	20120-12-12
-12	3/4x14	1.75	—	20120-12-12C+
-16	3/4x14	1.62	20120-12-16B+	20120-12-16
-16	1x11-1/2	1.80	20120-16-16B	20120-16-16
-16	1x11-1/2	1.80	—	20120-16-16C+
-20	1x11-1/2	1.80	—	20120-16-20+
-20	1-1/4x11-1/2	1.96	20120-20-20B	20120-20-20
-20	1-1/4x11-1/2	1.96	—	20120-20-20C+
-24	1-1/2x11-1/2	2.12	20120-24-24B	20120-24-24
-24	1-1/2x11-1/2	2.12	—	20120-24-24C+
-24	2 x11-1/2	2.28	—	20120-32-24+
-32	2 x11-1/2	2.31	20120-32-32B	20120-32-32
-32	2 x11-1/2	2.31	—	20120-32-32C
-40	2-1/2x8	3.20	20120-40-40B+	20120-40-40
-40	2-1/2x8	3.20	—	20120-40-40C+
-48	3x8	3.27	20120-48-48B+	20120-48-48+

Part number Σ 356 used for hoses size -4 through -12.
 Σ 326 used for hose sizes -16 through -48.

+Non-standard.

Male SAE JIC 37°

20320 (Σ362)



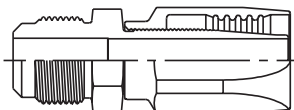
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
3/8x24	3/16	-4	1.05	20320-3-4+
7/16x20	1/4	-4	1.05	20320-4-4
7/16x20	1/4	-5	1.11	20320-4-5+
1/2x20	5/16	-5	1.11	20320-5-5
1/2x20	5/16	-5	1.11	20320-5-5C+
1/2x20	5/16	-6	1.19	20320-5-6+*
9/16x18	3/8	-6	1.19	20320-6-6
3/4x16	1/2	-8	1.48	20320-8-8
3/4x16	1/2	-8	1.48	20320-8-8C+
3/4x16	1/2	-10	1.50	20320-8-10+
7/8x14	5/8	-8	1.64	20320-10-8+
7/8x14	5/8	-10	1.66	20320-10-10
7/8x14	5/8	-10	1.66	20320-10-10C+
1-1/16x12	3/4	-10	1.83	20320-12-10+*
1-1/16x12	3/4	-12	1.85	20320-12-12
1-1/16x12	3/4	-12	1.85	20320-12-12C+
1-5/16x12	1	-12	1.89	20320-16-12+
1-5/16x12	1	-16	1.76	20320-16-16
1-5/8x12	1.25	-20	1.94	20320-20-20+
1-7/8x12	1.5	-24	2.12	20320-24-24+
2-1/2x12	2	-32	2.60	20320-32-32+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 20320-5-6C.

+Non-standard.

Male SAE 45°

20420 (Σ360)

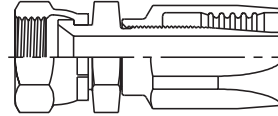


Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.02	20420-4-4
1/2x20	5/16	-5	1.14	20420-5-5
5/8x18	3/8	-6	1.25	20420-6-6
3/4x16	1/2	-8	1.58	20420-8-8
7/8x14	5/8	-10	1.78	20420-10-10
1-1/16x14	3/4	-12	2.00	20420-12-12

Notch in hex for SAE identification on sizes -6 and -12.

SAE JIC 37° Swivel

20620 (Σ416 & Σ417)

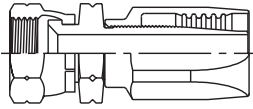


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.16	20620-4-4*
7/16x20	1/4	-5	1.21	20620-4-5
7/16x20	1/4	-5	1.21	20620-4-5C+
7/16x20	1/4	-6	1.23	20620-4-6+*
9/16x18	3/8	-8	1.41	20620-4-8+
1/2x20	5/16	-4	1.24	20620-5-4+
1/2x20	5/16	-5	1.29	20620-5-5
1/2x20	5/16	-5	1.29	20620-5-5C+
1/2x20	5/16	-6	1.29	20620-5-6+
9/16x18	3/8	-4	1.31	20620-6-4+
9/16x18	3/8	-5	1.36	20620-6-5
9/16x18	3/8	-5	1.36	20620-6-5C+
9/16x18	3/8	-6	1.40	20620-6-6*
9/16x18	3/8	-8	1.58	20620-6-8+
3/4x16	1/2	-4	1.46	20620-8-4+
3/4x16	1/2	-6	1.52	20620-8-6
3/4x16	1/2	-6	1.52	20620-8-6C+
3/4x16	1/2	-8	1.70	20620-8-8*
3/4x16	1/2	-10	1.77	20620-8-10
3/4x16	1/2	-10	1.77	20620-8-10C+
3/4x16	1/2	-12	1.79	20620-8-12+
7/8x14	5/8	-8	1.85	20620-10-8
7/8x14	5/8	-10	1.88	20620-10-10*
7/8x14	5/8	-12	1.90	20620-10-12
7/8x14	5/8	-12	1.90	20620-10-12C+
7/8x14	5/8	-16	1.83	20620-10-16+
1-1/16x12	3/4	-10	1.97	20620-12-10+*
1-1/16x12	3/4	-12	1.99	20620-12-12*
1-1/16x12	3/4	-16	1.88	20620-12-16+*
1-5/16x12	1	-12	2.14	20620-16-12+*
1-5/16x12	1	-16	2.01	20620-16-16*
1-5/16x12	1	-20	2.15	20620-16-20C+
1-5/8x12	1-1/4	-20	2.28	20620-20-20
1-5/8x12	1-1/4	-20	2.28	20620-20-20C+
1-5/8x12	1-1/4	-24	2.39	20620-20-24+
1-7/8x12	1-1/2	-24	2.58	20620-24-24
1-7/8x12	1-1/2	-24	2.58	20620-24-24C+
2-1/2x12	2	-32	2.97	20620-32-32
2-1/2x12	2	-32	2.97	20620-32-32C+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 20620-4-4C.

+Non-standard.

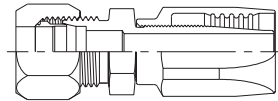
SAE 45° Swivel
20820 (Σ418)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
5/8x18	3/8	-6	1.44	20820-6-6
1-1/16x14	3/4	-12	1.99	20820-12-12
1-1/16x14	3/4	-16	1.88	20820-12-16+

Notch on nut indicates SAE (45°) flare. See 20620 for additional sizes.
+Non-standard.

Ferrul-Fix (SAE Flareless)
21120



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.02	21120-4-4
7/16x20	1/4	-6	1.12	21120-4-6
1/2x20	5/16	-5	1.07	21120-5-5
9/16x18	3/8	-6	1.14	21120-6-6
3/4x16	1/2	-8	1.43	21120-8-8
7/8x14	5/8	-10	1.55	21120-10-10
1-1/16x12	3/4	-10	1.61	21120-12-10+
1-1/16x12	3/4	-12	1.69	21120-12-12+
1-3/16x12	7/8	-12	1.70	21120-14-12+
1-5/16x12	1	-16	1.56	21120-16-16+

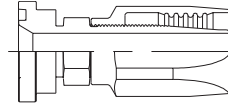
The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy, on the job repairs.

See page M34 for assembly instructions.

+Non-standard.

SAE (Code 61) Flange Head Straight

21520 (Σ406)



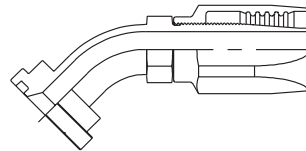
SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	1.67	21520-8-8+
3/4	-12	1.62	21520-12-12
1	-16	1.57	21520-16-16
1-1/4	-20	2.30	21520-20-20
1-1/2	-24	2.65	21520-24-24
2	-24	2.61	21520-32-24+
2	-32	3.17	21520-32-32
2-1/2	-32	3.23	21520-40-32+
2-1/2	-40	3.34	21520-40-40

Flange Kits listed under Accessories.

+Non-standard.

SAE (Code 61) Flange Head 45° Elbow

21720 (Σ408)

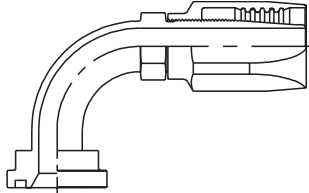


SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.35	21720-8-8+
3/4	-12	2.50	21720-12-12+
1	-16	2.55	21720-16-16+
1-1/4	-20	2.82	21720-20-20
2	-20	2.87	21720-32-20+
1-1/2	-24	2.98	21720-24-24+
1-1/2	-32	3.09	21720-24-32+
2	-32	3.42	21720-32-32+
2-1/2	-32	3.47	21720-40-32+
2-1/2	-40	3.99	21720-40-40+
3	-48	6.30	21720-48-48+

+Non-standard.

SAE (Code 61) Flange Head 90° Elbow

21920 (≤410)

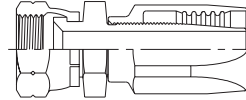


Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	1.81	21920-8-8
3/4	-12	2.24	21920-12-12
1	-16	2.35	21920-16-16
1-1/4	-16	2.35	21920-20-16+
1-1/4	-20	2.73	21920-20-20
1-1/4	-20	2.73	21920-32-20+
1-1/4	-24	2.74	21920-20-24+
1-1/2	-20	2.73	21920-24-20+
1-1/2	-24	3.05	21920-24-24
2	-24	3.03	21920-32-24+
2	-32	3.71	21920-32-32
2-1/2	-32	3.70	21920-40-32+
2-1/2	-40	4.36	21920-40-40+
3	-40	4.37	21920-48-40+
3	-48	7.57	21920-48-48+

+Non-standard.

Female PTT 30° Swivel Straight

23220

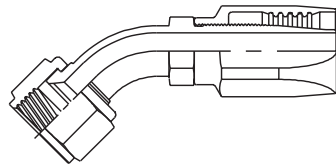


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
1-5/16x14	1	-12	2.06	23220-16-12+
1-5/16x14	1	-16	1.79	23220-16-16
1-5/8x14	1-1/4	-20	2.20	23220-20-20+
1-7/8x14	1-1/2	-24	2.51	23220-24-24+
2-1/2x12	2	-32	2.97	23220-32-32+

+Non-standard.

SAE JIC 37° Swivel 45° Elbow

23720 (≤30000)

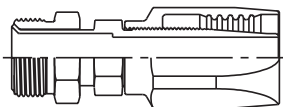


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.30	23720-4-4
7/16x20	1/4	-5	1.35	23720-4-5+
1/2x20	5/16	-5	1.47	23720-5-5
1/2x20	5/16	-6	1.49	23720-5-6+
9/16x18	3/8	-6	1.54	23720-6-6
3/4x16	1/2	-6	1.86	23720-8-6
3/4x16	1/2	-8	2.01	23720-8-8
3/4x16	1/2	-10	2.06	23720-8-10+
7/8x14	5/8	-10	2.14	23720-10-10
7/8x14	5/8	-12	2.16	23720-10-12+
1-1/16x12	3/4	-12	2.45	23720-12-12
1-5/16x12	1	-16	2.54	23720-16-16
1-5/8x12	1-1/4	-16	2.62	23720-20-16+
1-5/8x12	1-1/4	-20	2.89	23720-20-20

+Non-standard.

SAE Male Inverted Swivel

22820 (≤27663)

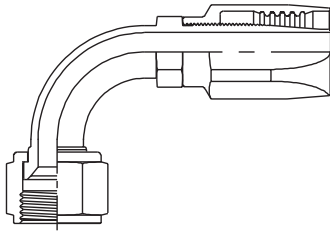


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x24	1/4	-4	1.67	22820-4-4
7/16x24	1/4	-5	1.76	22820-4-5
1/2x20	5/16	-5	1.87	22820-5-5
1/2x20	5/16	-6	1.90	22820-5-6+
5/8x18	3/8	-6	2.06	22820-6-6
5/8x18	1/2	-8	2.03	22820-6-8+
3/4x18	1/2	-8	2.27	22820-8-8
7/8x18	5/8	-10	2.42	22820-10-10

+Non-standard.

**SAE JIC 37° Swivel
90° Elbow**

23920 (Σ30001)

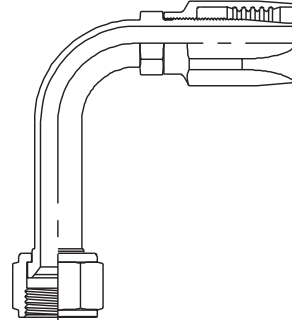


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.13	23920-4-4
7/16x20	1/4	-5	1.18	23920-4-5+
1/2x20	5/16	-5	1.47	23920-5-5
9/16x18	3/8	-6	1.43	23920-6-6
3/4x16	1/2	-6	1.59	23920-8-6+
3/4x16	1/2	-8	1.79	23920-8-8
3/4x16	1/2	-10	1.78	23920-8-10
7/8x14	5/8	-8	1.95	23920-10-8+
7/8x14	5/8	-10	1.98	23920-10-10
7/8x14	5/8	-12	2.27	23920-10-12
1-1/16x12	3/4	-12	2.36	23920-12-12
1-1/16x12	3/4	-12	2.34	23920-12-12C+
1-5/16x12	1	-16	2.50	23920-16-16
1-5/16x12	1	-16	2.75	23920-16-16C+
1-5/8x12	1-1/4	-20	2.77	23920-20-20
1-5/8x12	1-1/4	-20	2.73	23920-20-20C+
1-7/8x12	1-1/2	-24	3.06	23920-24-24
1-7/8x12	1-1/2	-24	3.19	23920-24-24C+
2-1/2x12	2	-32	3.71	23920-32-32+

+Non-standard.

**SAE JIC 37° Swivel
90° Elbow (Long)**

24120 (Σ30002)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.30	24120-4-4
7/16x20	1/4	-5	1.35	24120-4-5+
1/2x20	5/16	-5	1.21	24120-5-5
1/2x20	5/16	-6	1.21	24120-5-6+
9/16x18	3/8	-6	1.42	24120-6-6
3/4x16	1/2	-8	1.87	24120-8-8
7/8x14	5/8	-10	2.06	24120-10-10
1-1/16x12	3/4	-12	2.27	24120-12-12
1-5/16x12	1	-16	2.35	24120-16-16
1-5/8x12	1-1/4	-20	2.73	24120-20-20*

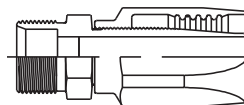
*Also available in 316 stainless steel. Add "C" to part no.

Example: 24120-20-20C.

+Non-standard.

SAE Air Brake

26120 (Σ30184)

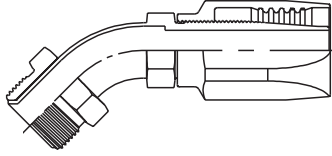


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Part No.
13/16x18	5/8	-10	1.41	26120-10-10

Use with Air Brake Nut and Sleeve.

**SAE Male Inverted Swivel
45° Elbow**

26720 (Σ27665)

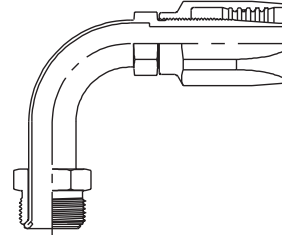


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
3/8x24	3/16	-4	1.46	26720-3-4+
7/16x24	1/4	-4	1.43	26720-4-4
1/2x20	5/16	-4	1.51	26720-5-4+
1/2x20	5/16	-5	1.56	26720-5-5
1/2x20	5/16	-6	1.66	26720-5-6+
5/8x18	3/8	-6	2.08	26720-6-6
3/4x18	1/2	-8	2.38	26720-8-8

+Non-standard.

**SAE Male Inverted Swivel
90° Elbow (Long)**

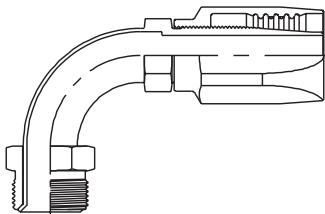
27120 (Σ27552)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
5/8x18	3/8	-6	2.81	27120-6-6

**SAE Male Inverted Swivel
90° Elbow (Long)**

26920 (Σ27667)

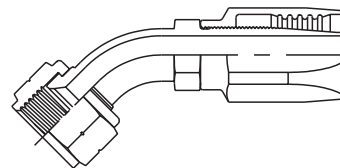


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x24	1/4	-4	1.44	26920-4-4
1/2x20	5/16	-5	1.72	26920-5-5
1/2x20	5/16	-6	1.72	26920-5-6
5/8x18	3/8	-6	1.69	26920-6-6
11/16x18	7/16	-6	1.58	26920-7-6+
5/8x18	3/8	-8	1.95	26920-6-8+
3/4x18	1/2	-8	1.95	26920-8-8
7/8x18	5/8	-10	2.24	26920-10-10+

+Non-standard.

SAE 45° Swivel 45° Elbow

27720 (Σ30003)

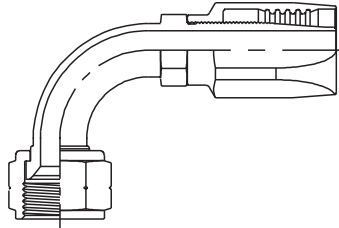


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.30	27720-4-4~
1/2x20	5/16	-5	1.47	27720-5-5~
5/8x18	3/8	-6	1.54	27720-6-6
3/4x16	1/2	-6	1.85	27720-8-6~
3/4x16	1/2	-8	2.03	27720-8-8~
7/8x14	5/8	-10	2.13	27720-10-10~
1-1/16x14	3/4	-12	2.46	27720-12-12

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

Note: Notch in nut indicates SAE (45°) flare. See part number 23720 for additional sizes.

SAE 45° Swivel 90° Elbow
27920 (Σ30004)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.19	27920-4-4~
1/2x20	5/16	-5	1.47	27920-5-5~
5/8x18	3/8	-6	1.44	27920-6-6
5/8x18	3/8	-8	1.67	27920-6-8+
3/4x16	1/2	-8	1.77	27920-8-8*
7/8x14	5/8	-10	1.97	27920-10-10~
1-1/16x14	3/4	-12	2.39	27920-12-12

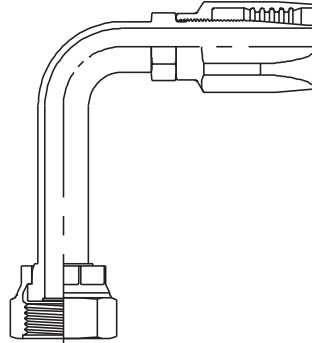
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

Note: Notch in nut indicates SAE (45°) flare. See part number 23920 for additional sizes.

*Also available in 316 stainless steel. Add "C" to part no. Example: 27920-8-8C.

+Non-standard.

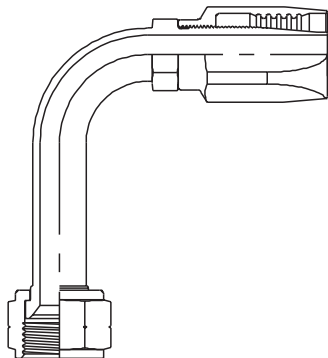
Female Seal-Lok Swivel 90° Elbow (Long)
2J120 (Σ34046)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.30	2J120-4-4
11/16x16	3/8	-6	1.42	2J120-6-6
13/16x16	1/2	-8	1.87	2J120-8-8
1x14	5/8	-10	2.05	2J120-10-10
1-3/16x12	3/4	-12	2.26	2J120-12-12
1-7/16x12	1	-16	2.35	2J120-16-16*

*Also available in 316 stainless steel. Add "C" to part no. Example: 2J120-16-16C.

SAE 45° Swivel 90° Elbow (Long)
28120 (Σ30005)

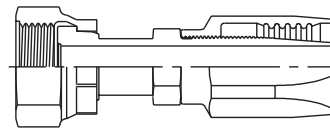


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.30	28120-4-4~
5/8x18	3/8	-6	1.43	28120-6-6
3/4x16	1/2	-8	1.87	28120-8-8~
7/8x14	5/8	-10	2.05	28120-10-10~
1-1/16x14	3/4	-12	2.28	28120-12-12

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

Note: Notch in nut indicates SAE (45°) flare. See part number 23920 for additional sizes.

Female Seal-Lok Swivel Straight
2JS20 (Σ34043)

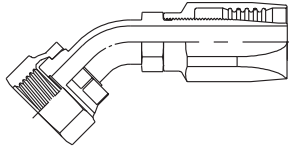


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.29	2JS20-4-4
11/16x16	3/8	-6	1.44	2JS20-6-6
13/16x16	1/2	-8	1.83	2JS20-8-8
13/16x16	1/2	-8	1.83	2JS20-8-8C+
1x14	5/8	-10	1.93	2JS20-10-10
1-3/16x12	3/4	-12	2.16	2JS20-12-12
1-7/16x12	1	-16	2.05	2JS20-16-16
1-11/16x12	1-1/4	-20	2.25	2JS20-20-20+

+Non-standard.

**Female Seal-Lok Swivel
45° Elbow**

2J720 (Σ34044)

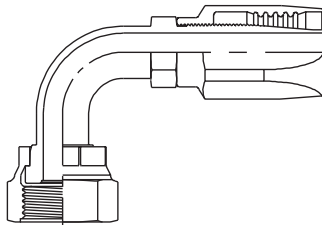


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.46	2J720-4-4
11/16x16	3/8	-6	1.60	2J720-6-6
13/16x16	1/2	-8	2.10	2J720-8-8
1x14	5/8	-10	2.24	2J720-10-10
1-3/16x12	3/4	-12	2.32	2J720-12-12
1-7/16x12	1	-16	2.81	2J720-16-16
1-11/16x12	1-1/4	-20	3.08	2J720-20-20+
2x12	1-1/2	-24	3.30	2J720-24-24+

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Short)**

2J920 (Σ34045)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.44	2J920-4-4
11/16x16	3/8	-6	1.47	2J920-6-6
13/16x16	1/2	-8	1.82	2J920-8-8
1x14	5/8	-10	1.93	2J920-10-10
1-3/16x12	3/4	-12	2.24	2J920-12-12
1-7/16x12	1	-16	2.76	2J920-16-16
1-11/16x12	1-1/4	-20	3.16	2J920-20-20+
2x12	1-1/2	-24	4.10	2J920-24-24+

+Non-standard.

O-Rings

For Tube O-Ring Air Conditioning and Refrigeration Fittings.
(Compound N1173-70)*

Tube Size	I.D.	Part No.
3/8	.301 ± .005	771513-1
1/2	.426 ± .005	771513-2
5/8	.551 ± .005	771513-4
3/4	.676 ± .005	771513-4

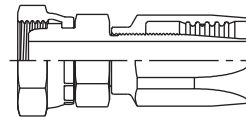


*For use with R12 or R134a and appropriate lubricants.

**Metric Swivel Female
DIN 20078 Light Series**

2C320

Mates with EO "L" Series Fittings



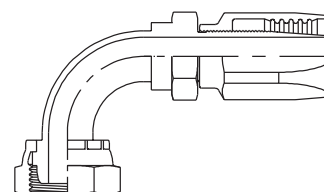
Thread Size	Tube Size mm	Hose Dash Size	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1.26	2C320-6-4
M14x1.5	8	-5	1.54	2C320-8-5
M16x1.5	10	-6	1.61	2C320-10-6
M22x1.5	15	-10	1.64	2C320-15-10+

+Non-standard.

**Metric Swivel Female
DIN 20078 Light Series
90° Elbow**

2C520

Mates with EO "L" Series Fittings

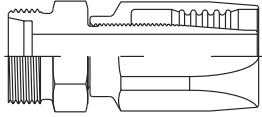


Thread Size	Tube Size mm	Hose Dash Size	Cut-Off Allow. mm	Part No.
M16x1.5	10	-6	1.73	2C520-10-6
M45x1.5	32	-24	3.05	2C520-32-24-SA+

**Male Stud
DIN 20078 Light Series**

2D020

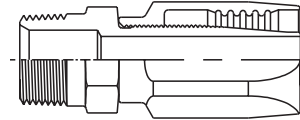
Mates with EO "L" Series Fittings



Thread Size	Tube Size mm	Hose Dash Size	Cut-Off Allow. mm	Part No.
M14x1.5	8	-5	25	2D020-8-5

Male Pipe NPTF

20122 (Σ326)



Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/8x27	-4	0.93	—	20122-2-4
1/8x27	-5	1.00	—	20122-2-5
1/4x18	-4	1.11	20122-4-4B	20122-4-4
1/4x18	-5	1.18	20122-4-5B	20122-4-5
1/4x18	-6	1.19	20122-4-6B	20122-4-6
3/8x18	-5	1.30	—	20122-6-5+
3/8x18	-6	1.27	—	20122-6-6+
3/8x18	-8	1.33	20122-6-8B	20122-6-8
1/2x14	-8	1.58	—	20122-8-8
1/2x14	-10	1.66	—	20122-8-10
3/4x14	-12	1.67	20122-12-12B	20122-12-12

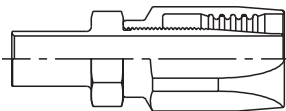
Note: Use 20 Series fittings for size -16 and larger.

+Non-standard.

Metric Standpipe Light Series

21D20

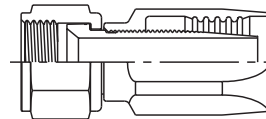
Mates with EO "L" Series Fittings



Tube Size mm	Hose Dash Size	Cut-Off Allow. mm	Part No.
6	-4	1.42	21D20-6-4
8	-5	1.50	21D20-8-5
10	-6	1.57	21D20-10-6
15	-10	1.77	21D20-15-10

Female SAE JIC 37° Swivel

20622 (Σ319)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
7/16x20	1/4	-4	1.00	20622-4-4B~	20622-4-4~
1/2x20	5/16	-5	1.12	20622-5-5B~	20622-5-5~
9/16x18	3/8	-6	1.15	20622-6-6B	20622-6-6
3/4x16	1/2	-6	1.66	—	20622-8-6C~+
3/4x16	1/2	-8	1.38	20622-8-8B~	20622-8-8~
7/8x14	5/8	-10	1.51	20622-10-10B~	20622-10-10~
1-1/16x12	3/4	-12	1.58	20622-12-12B	20622-12-12
1-5/16x12	1	-16	1.54	20622-16-16B	20622-16-16
1-5/8x12	1-1/4	-20	1.64	20622-20-20B	20622-20-20
1-7/8x12	1-1/2	-24	1.93	20622-24-24B	20622-24-24
2-1/2x12	2	-32	2.03	20622-32-32B	20622-32-32
3x12	2-1/2	-40	2.25	—	20622-40-40

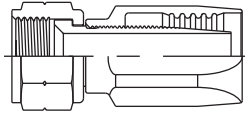
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

Note: Use 20 Series fittings for size -16 and larger.

+Non-standard.

Female SAE 45° Swivel

20822 (Σ323)

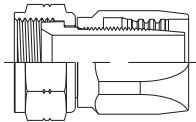


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
7/16x20	1/4	-4	1.00	20822-4-4B	20822-4-4
1/2x20	5/16	-5	1.12	20822-5-5B	20822-5-5
5/8x18	3/8	-6	1.15	20822-6-6B	20822-6-6
3/4x16	1/2	-6	1.66	—	20822-8-6C+
3/4x16	1/2	-8	1.38	20822-8-8B	20822-8-8
7/8x14	5/8	-10	1.51	20822-10-10B	20822-10-10
1-1/16x14	3/4	-12	1.45	20822-12-12B	20822-12-12

Notch in nut for SAE identification on sizes -6 and -12.
+Non-standard.

Female PTT 30° Swivel

23222 (Σ324)

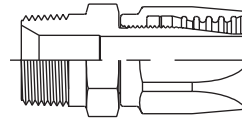


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
1-5/16x14	1	-16	1.32	23222-16-16
1-5/8x14	1-1/4	-20	1.50	23222-20-20
2-1/2x12	2	-32	2.11	23222-32-32+

+Non-standard.

Male NPTF Pipe

20121 (726S)

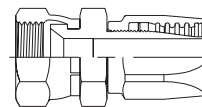


Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/8x27	-4	0.88	—	20121-2-4
1/4x18	-4	1.11	—	20121-4-4
1/4x18	-5	1.05	—	20121-4-5
1/4x18	-6	1.13	—	20121-4-6
1/4x18	-8	1.17	—	20121-4-8+
3/8x18	-6	1.17	—	20121-6-6
3/8x18	-8	1.18	—	20121-6-8
1/2x14	-8	1.42	—	20121-8-8
1/2x14	-10	1.44	—	20121-8-10
1/2x14	-12	1.44	20121-8-12B+	20121-8-12+
3/4x14	-10	1.50	—	20121-12-10+
3/4x14	-12	1.50	—	20121-12-12
3/4x14	-16	1.45	—	20121-12-16
3/4x14	-16	1.45	20121-12-16B+	20121-12-16+
1x11-1/2	-16	1.64	—	20121-16-16
1x11-1/2	-16	1.64	20121-16-16B+	20121-16-16+
1x11-1/2	-20	1.78	—	20121-16-20
1-1/4x11-1/2	-20	1.80	—	20121-20-20
1-1/2x11-1/2	-24	1.92	—	20121-24-24
1-1/2x11-1/2	-24	1.92	20121-24-24B+	20121-24-24+
2-1/2x8	-32	3.49	—	20121-32-32

+Non-standard.

Female JIC 37° Swivel

20621 (727S)



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Part Number
7/16x20	1/4	-4	1.16	20621-4-4~
1/2x20	5/16	-5	1.09	20621-5-5~
9/16x18	3/8	-6	1.32	20621-6-6
3/4x16	1/2	-8	1.54	20621-8-8~
3/4x16	1/2	-10	1.56	20621-8-10~+
7/8x14	5/8	-10	1.65	20621-10-10~
1-1/16x12	3/4	-12	1.77	20621-12-12
1-5/16x12	1	-16	1.72	20621-16-16
1-5/8x12	1-1/4	-20	2.11	20621-20-20
1-7/8x12	1-1/2	-24	2.51	20621-24-24+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

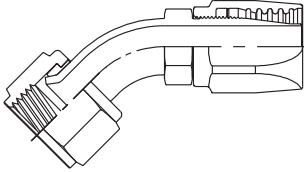
The -6 and -12 SAE (45°) swivel fittings are shown under part number 20821 (725S).

+Non-standard.

**Female JIC 37° Swivel
45° Elbow**

23721 (27227S)

Note: 23721 (27227S) can be used with 37° and 45° male flare adapters.



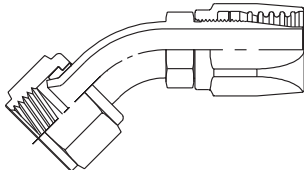
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Part Number
7/16x20	1/4	-4	1.35	23721-4-4~
7/16x20	1/4	-6	1.46	23721-4-6~
1/2x20	5/16	-5	1.33	23721-5-5~
9/16x18	3/8	-6	1.58	23721-6-6
7/8x14	5/8	-10	1.84	23721-10-10~

-These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

**Female JIC 37° Swivel
45° Elbow**

23721 (27230S)

Note: 23721 (27230S) can be used with 37° male flare adapters.



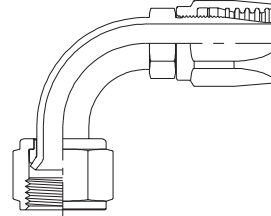
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
9/16x18	3/8	-6	1.58	23721-6-6
1-1/16x12	3/4	-12	1.99	23721-12-12
1-5/16x12	1	-16	2.30	23721-16-16
1-5/8x12	1-1/4	-20	2.69	23721-20-20

-These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

**Female JIC 37° Swivel
90° Elbow**

23921 (27228S)

Note: 23921 (27228S) can be used with 37° and 45° male flare adapters.



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x20	1/4	-4	1.14	23921-4-4~
7/16x20	1/4	-5	0.84	23921-4-5~+
7/16x20	1/4	-6	1.17	23921-4-6~
1/2x20	5/16	-5	0.90	23921-5-5~
3/4x16	1/2	-8	1.32	23921-8-8~
7/8x14	5/8	-10	1.44	23921-10-10~
7/8x14	5/8	-12	1.44	23921-10-12~+

-These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

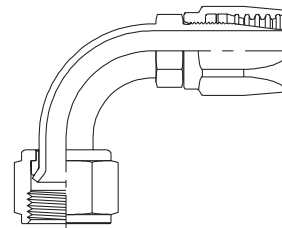
+Non-standard.

**Female JIC 37° Swivel
90° Elbow**

23921 (27231S)

Note: Reference 23921 (27228S) product illustration.

Note: 23921 (27231S) can be used with 37° male flare adapters.



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
9/16x18	3/8	-6	1.06	23921-6-6
9/16x18	3/8	-8	1.42	23921-6-8+
1-1/16x12	3/4	-12	1.94	23921-12-12
1-5/16x12	1	-16	2.19	23921-16-16
1-5/8x12	1-1/4	-20	2.52	23921-20-20
1-5/8x12	1-1/2	-24	2.91	23921-24-24

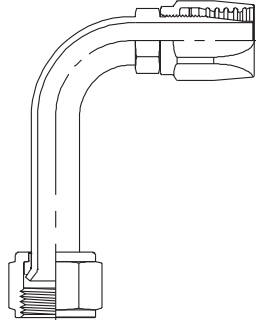
-These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**Female JIC 37° Swivel
90° Elbow - (Long)**

24121 (27229S)

Note: 24121 (27229S) can be used with 37° and 45° male flare adapters.



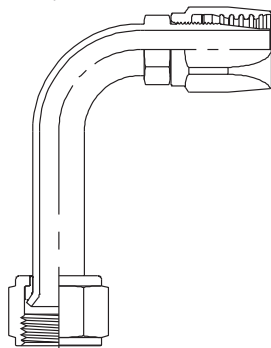
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x20	1/4	-4	1.32	24121-4-4~
1/2x20	5/16	-5	1.09	24121-5-5~
3/4x16	1/2	-8	1.44	24121-8-8~
7/8x14	5/8	-10	1.69	24121-10-10~

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

**27232S Female JIC 37°
Swivel 90° Elbow - (Long)**

24121 (27232S)

Note: 24121 (27232S) can be used with 37° male flare adapters.



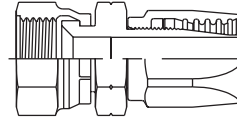
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
9/16x18	3/8	-6	1.38	24121-6-6
1-1/16x12	3/4	-12	1.94	24121-12-12
1-5/16x12	1	-16	2.16	24121-16-16+
1-5/8x12	1-1/4	-20	2.52	24121-20-20

+Non-standard.

**725S Female SAE 45° Swivel
Straight**

20821 (725S)

Note: 20821 (725S) can be used with 45° male flare adapters.



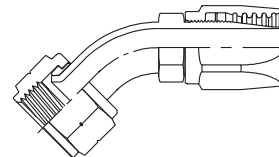
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x20	1/4	-4	1.15	20821-4-4*
5/8x18	3/8	-6	1.34	20821-6-6*
3/4x16	1/2	-8	1.54	20821-8-8*
7/8x14	5/8	-10	1.64	20821-10-10*
1-1/16x14	3/4	-12	1.77	20821-12-12*
1 1/16-14	3/4	-12	1.77	20821-12-12*

*These fittings are available in brass. Add "B" to part number. Example: 20821-4-4B. Steel fittings are standard and brass are non-standard.

**Female SAE 45° Swivel
45° Elbow**

27721 (27233S)

Note: 27721 (27233S) can be used with 45° male flare adapters.

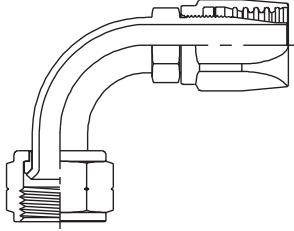


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.50	27721-6-6
1-1/16x14	3/4	-12	1.99	27721-12-12

**Female SAE 45° Swivel
90° Elbow**

27921 (27234S)

Note: 27921 (27234S) can be used with 45° male flare adapters.

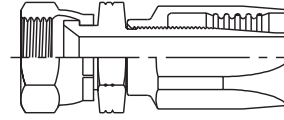


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.38	27921-6-6
1-1/16x14	3/4	-12	1.94	27921-12-12

**Female PTT 30° Swivel
Straight**

23221 (724S)

Note: 23221 (724S) can be used with 30° flare adapters.



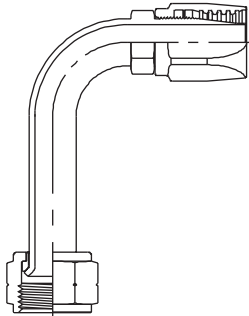
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
1-5/16x14	1	-16	1.66	23221-16-16
1-5/8x14	1-1/4	-20	2.00	23221-20-20
1-7/8x14	1-1/2	-24	2.23	23221-24-24+

+Non-standard.

**Female SAE 45° Swivel
90° Elbow - (Long)**

28121 (27235S)

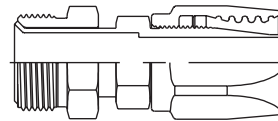
Note: 28121 (27235S) can be used with 45° male flare adapters.



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.38	28121-6-6
1-1/16x14	3/4	-12	1.94	28121-12-12

**SAE Male Inverted Swivel
Straight**

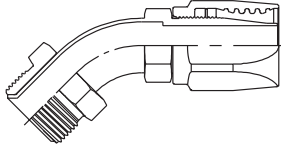
22821 (27587S)



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x24	1/4	-4	1.70	22821-4-4
7/16x24	1/4	-6	1.74	22821-4-6
1/2x20	5/16	-4	1.66	22821-5-4
1/2x20	5/16	-5	1.61	22821-5-5
1/2x20	5/16	-6	1.70	22821-5-6
5/8x18	3/8	-6	1.68	22821-6-6
5/8x18	3/8	-8	1.80	22821-6-8
3/4x18	1/2	-6	1.78	22821-8-6+
3/4x18	1/2	-8	1.85	22821-8-8
7/8x18	5/8	-10	1.83	22821-10-10
1-1/16x16	3/4	-12	1.80	22821-12-12

**SAE Male Inverted Swivel
45° Elbow**

26721 (27659S)

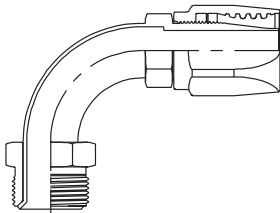


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x24	1/4	-4	1.98	26721-4-4
7/16x24	1/4	-6	2.02	26721-4-6
1/2x20	5/16	-5	1.86	26721-5-5
1/2x20	5/16	-6	1.96	26721-5-6
5/8x18	3/8	-5	1.86	26721-6-5
5/8x18	3/8	-6	1.96	26721-6-6
3/4x18	1/2	-8	2.06	26721-8-8
7/8x18	5/8	-10	2.25	26721-10-10
1-1/16x16	3/4	-12	2.27	26721-12-12+

+Non-standard.

**SAE Male Inverted Swivel
90° Elbow**

26921 (27661S)

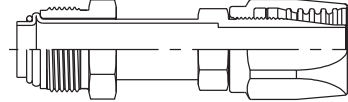


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x24	1/4	-4	1.37	26921-4-4
7/16x24	1/4	-6	1.52	26921-4-6
1/2x20	1/4	-4	1.48	26921-5-4
1/2x20	5/16	-5	1.52	26921-5-5
1/2x20	5/16	-6	1.62	26921-5-6
5/8x18	3/8	-6	1.66	26921-6-6
5/8x18	3/8	-8	1.68	26921-6-8
3/4x18	1/2	-8	1.69	26921-8-8
7/8x18	5/8	-10	1.98	26921-10-10
1-1/16x16	3/4	-12	1.99	26921-12-12+

+Non-standard.

**Male Tube O-Ring Swivel
Straight - Short Pilot**

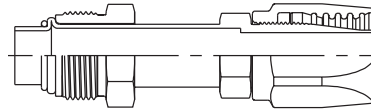
2S521 (30395S)



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.88	2S521-6-6
3/4x18	1/2	-8	2.48	2S521-8-8
7/8x18	5/8	-10	2.64	2S521-10-10

**Male Tube O-Ring Swivel
Straight - Long Pilot**

24521 (30385S)

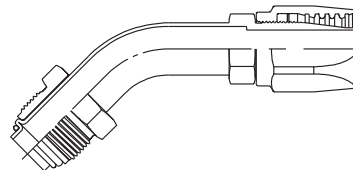


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	2.18	24521-6-6
3/4x18	1/2	-8	2.48	24521-8-8+
7/8x18	5/8	-10	2.2	24521-10-10

+Non-standard.

**Male Tube O-Ring Swivel
45° Elbow - Short Pilot**

25R21 (30396S)

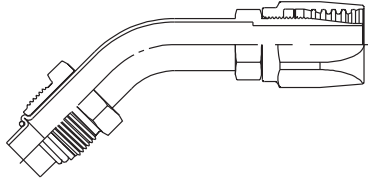


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	2.48	25R21-6-6
3/4x18	1/2	-8	2.67	25R21-8-8
7/8x18	5/8	-10	2.94	25R21-10-10+

+Non-standard.

**Male Tube O-Ring Swivel
45° Elbow - Long Pilot**

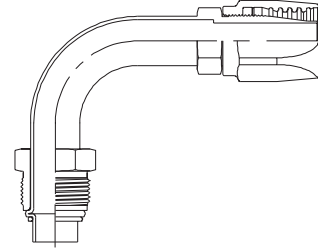
25P21 (30386S)



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	2.48	25P21-6-6
3/4x18	1/2	-8	2.67	25P21-8-8
7/8x18	5/8	-10	2.94	25P21-10-10

**Male Tube O-Ring Swivel
90° Elbow - Long Pilot**

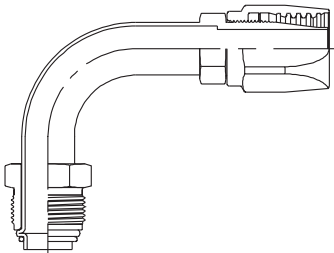
25M21



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.98	25M21-6-6
3/4x18	1/2	-8	2.19	25M21-8-8
7/8x18	5/8	-10	2.27	25M21-10-10

**Male Tube O-Ring Swivel
90° Elbow - Short Pilot**

25K21 (30397S)

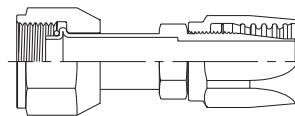


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.52	25K21-6-6
3/4x18	1/2	-8	2.10	25K21-8-8+
7/8x18	5/8	-10	2.50	25K21-10-10+

+Non-standard.

**Female Tube O-Ring Swivel
Straight - Short Pilot**

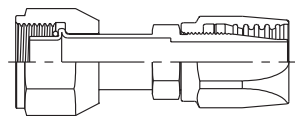
25S21 (30392S)



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.90	25S21-6-6
3/4x16	1/2	-8	1.86	25S21-8-8
7/8x14	5/8	-10	1.92	25S21-10-10

**Female Tube O-Ring Swivel
Straight - Long Pilot**

25921 (30382S)

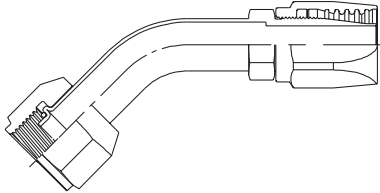


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.50	25921-6-6
3/4x16	1/2	-8	1.86	25921-8-8
7/8x14	5/8	-10	1.92	25921-10-10+
1-1/16x14	3/4	-10	1.98	25921-12-10+
1-1/16x14	3/4	-12	1.98	25921-12-12

+Non-standard.

**Female Tube O-Ring Swivel
45° Elbow - Short Pilot**

25H21 (30393S)

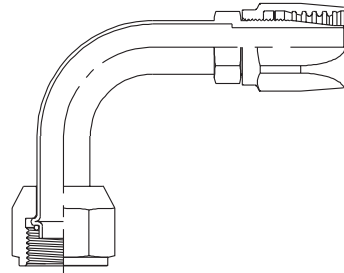


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	2.41	25H21-6-6
3/4x16	1/2	-8	2.35	25H21-8-8
7/8x14	5/8	-10	2.62	25H21-10-10+

+Non-standard.

**Female Tube O-Ring Swivel
90° Elbow - Short Pilot**

25T21 (30394S)

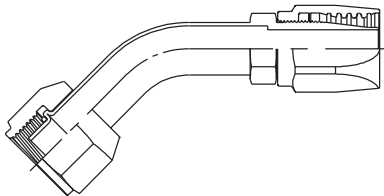


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.58	25T21-6-6
3/4x16	1/2	-8	2.19	25T21-8-8
7/8x14	5/8	-10	2.50	25T21-10-10

+Non-standard.

**Female Tube O-Ring Swivel
45° Elbow - Long Pilot**

25N21 (30383S)

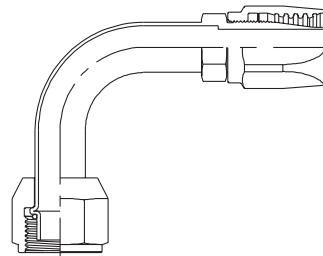


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	2.24	25N21-6-6
3/4x16	1/2	-8	2.57	25N21-8-8
7/8x14	5/8	-10	2.87	25N21-10-10
1-1/16x14	3/4	-10	3.33	25N21-12-10+
1-1/16x14	3/4	-12	3.33	25N21-12-12+

+Non-standard.

**Female Tube O-Ring Swivel
90° Elbow - Long Pilot**

25L21 (30384S)

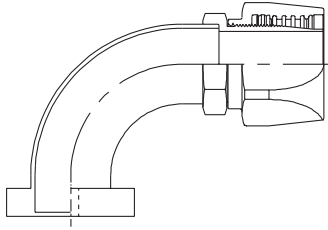


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	1.46	25L21-6-6
3/4x16	1/2	-8	2.19	25L21-8-8
7/8x14	5/8	-10	2.50	25L21-10-10
1-1/16x14	3/4	-12	2.82	25L21-12-10
1-1/16x14	3/4	-12	2.82	25L21-12-12+

+Non-standard.

Hole Rigid Flange 90° Elbow

22H21 (32954S)



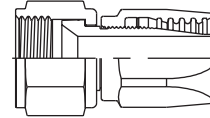
Flange Dash Size	Hose Size	Hose Dash Size	Cut-off Allow.	Part Number
-20	1-1/8	-20	2.93	22H21-20-20

***Mandrel Assembly Fittings**

Fittings -12 and smaller require use of mandrels for assembly to hose. Sizes -16 through -32 require use of assembly tools. Mandrels and assembly tools listed under Assembly Equipment.

Female JIC 37° Swivel

20623 (7117S)



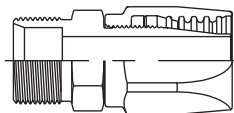
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x20	1/4	-4	0.92	20623-4-4~
1/2x20	5/16	-5	0.92	20623-5-5~
9/16x18	3/8	-6	1.06	20623-6-6
3/4x16	1/2	-8	1.19	20623-8-8~
7/8x14	5/8	-10	1.32	20623-10-10~
1-1/16x12	3/4	-12	1.36	20623-12-12
1-5/16x12	1	-16	1.47	20623-16-16
1-5/8x12	1-1/4	-20	1.64	20623-20-20
1-7/8x12	1-1/2	-24	1.80	20623-24-24
2-1/2x12	2	-32	2.05	20623-32-32
3x12	2-1/2	-40	2.25	20623-40-40+

*These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The -6 and -12 SAE 45° swivel fittings are shown under part number 20823 (7115B).

+Non-standard.

Male Air Brake

26121 (7135S)

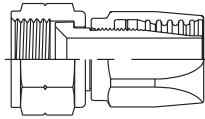


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
11/16x20	1/2	-10	1.16	26121-8-10+
13/16x18	5/8	-10	1.22	26121-10-10
1x18	3/4	-10	1.35	26121-12-10+

+Non-standard.

Female SAE 45° Swivel

20823 (7115B)



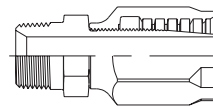
Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x20	1/4	-4	1.14	20823-4-4*
7/16x20	1/4	-4	1.14	20823-4-4BA
1/2x12	5/16	-5	1.15	20823-5-5*
1/2x12	5/16	-5	1.15	20823-5-5BA
5/8x18	3/8	-6	1.30	20823-6-6*
5/8x18	3/8	-6	1.30	20823-6-6BA
3/4x16	1/2	-8	1.50	20823-8-8*
3/4x16	1/2	-8	1.50	20823-8-8BA
7/8x14	5/8	-10	1.60	20823-10-10*
7/8x14	5/8	-10	1.60	20823-10-10BA
1-1/16x14	3/4	-12	1.72	20823-12-12*
1-1/16x14	3/4	-12	1.72	20823-12-12BA

Note: Part numbers with a "BA" suffix have a brass nipple and a steel nut and socket.

*Available in brass.

Male Pipe NPTF

20130

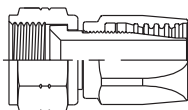


Pipe Thread	Hose Size	Cut-Off Allow.	Steel Part No.
1/8x27	-3	1.23	20130-2-3
1/8x27	-4	1.22	20130-2-4
1/4x18	-3	1.42	20130-4-3+
1/4x18	-4	1.41	20130-4-4
1/4x18	-4	1.41	20130-4-4C+
1/4x18	-6	1.44	20130-4-6
3/8x18	-4	1.41	20130-6-4
3/8x18	-6	1.44	20130-6-6
3/8x18	-6	1.44	20130-6-6C+
3/8x18	-8	1.58	20130-6-8
3/8x16	-12	1.58	20130-6-12+
1/2x14	-4	1.66	20130-8-4+
1/2x14	-6	1.62	20130-8-6
1/2x14	-8	1.77	20130-8-8
1/2x14	-8	1.77	20130-8-8C+
1/2x14	-10	1.88	20130-8-10
1/2x14	-12	1.77	20130-8-12+
3/4x14	-8	1.83	20130-12-8
3/4x14	-10	1.88	20130-12-10+
3/4x14	-12	1.77	20130-12-12
3/4x14	-12	1.84	20130-12-12C+
3/4x14	-16	1.83	20130-12-16
1x11-1/2	-12	1.96	20130-16-12+
1x11-1/2	-16	2.02	20130-16-16
1x11-1/2	-16	2.02	20130-16-16C+
1-1/4x11-1/2	-20	2.13	20130-20-20
1-1/2x11-1/2	-24	2.60	20130-24-24
2x11-1/2	-32	3.25	20130-32-32

+Non-standard.

Female PTT 30° Swivel Straight

23223 (7116S)

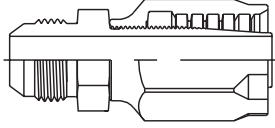


Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Part Number
1-5/16x14	1	-16	1.26	23223-16-16
1-5/8x14	1-1/4	-20	1.58	23223-20-20
1-7/8x14	1-1/2	-24	1.66	23223-24-24
2-1/2x12	2	-32	2.05	23223-32-32+

+Non-standard.

Male SAE JIC 37°

20330



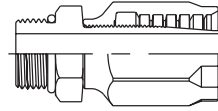
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-3	1.39	20330-4-3+
7/16x20	1/4	-4	1.40	20330-4-4
7/16x20	1/4	-6	1.43	20330-4-6+*
1/2x20	5/16	-4	1.40	20330-5-4
9/16x18	3/8	-3	1.45	20330-6-3+
9/16x18	3/8	-4	1.40	20330-6-4
9/16x18	3/8	-6	1.43	20330-6-6
9/16x18	3/8	-6	1.43	20330-6-6C+
3/4x16	1/2	-6	1.53	20330-8-6
3/4x16	1/2	-6	1.53	20330-8-6C+
3/4x16	1/2	-8	1.67	20330-8-8
3/4x16	1/2	-8	1.67	20330-8-8C+
7/8x14	5/8	-8	1.77	20330-10-8
7/8x14	5/8	-10	1.83	20330-10-10
1-1/16x12	3/4	-10	2.00	20330-12-10+
1-1/16x12	3/4	-12	1.88	20330-12-12
1-1/16x12	3/4	-12	1.88	20330-12-12C+
1-3/16x12	7/8	-12	1.91	20330-14-12
1-3/16x12	7/8	-16	1.97	20330-14-16+
1-5/16x12	1	-12	2.14	20330-16-12+
1-5/16x12	1	-16	1.99	20330-16-16
1-1/2x12	1-1/8	-16	2.02	20330-18-16+
1-5/8x12	1-1/4	-20	2.15	20330-20-20
1-7/8x12	1-1/2	-24	2.69	20330-24-24+
2-1/2x12	2	-32	3.55	20330-32-32+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 20330-4-6C.

+Non-standard.

SAE Straight Thread
O-Ring*

20530



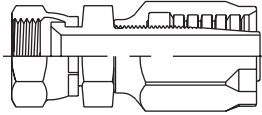
Pipe Thread	Hose Size	Cut-Off Allow.	Stainless Steel Part No.	Steel Part No.
7/16x20	-3	1.26	—	20530-4-3+
7/16x20	-4	1.25	—	20530-4-4
1/2x20	-4	1.25	—	20530-5-4+
9/16x18	-4	1.28	20530-6-4C+	20530-6-4
9/16x18	-6	1.31	20530-6-6C+	20530-6-6
3/4x16	-6	1.39	—	20530-8-6
3/4x16	-8	1.53	20530-8-8C+	20530-8-8
7/8x14	-6	1.51	—	20530-10-6+
7/8x14	-8	1.59	—	20530-10-8
7/8x14	-16	1.59	—	20530-10-16+
1-1/16x12	-8	1.75	20530-12-8C+	20530-12-8
1-1/16x12	-10	1.80	—	20530-12-10+
1-1/16x12	-12	1.69	—	20530-12-12
1-5/16x12	-16	1.79	—	20530-16-16+
1-5/8x12	-20	1.86	—	20530-20-20+
1-7/8x12	-24	2.32	—	20530-24-24+
2-1/2x12	-32	2.93	—	20530-32-32+

*O-Ring not to be used with Phosphate Ester Fluid.

+Non-standard.

Female SAE JIC 37° Swivel

20630



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Stainless Steel Part No.*	Steel Part No.
7/16x20	1/4	-3	1.49	—	20630-4-3~
7/16x20	1/4	-4	1.48	20630-4-4C~	20630-4-4~
7/16x20	1/4	-6	1.51	—	20630-4-6~+
1/2x20	5/16	-4	1.54	—	20630-5-4~
1/2x20	5/16	-6	1.58	—	20630-5-6~+
9/16x18	3/8	-4	1.57	20630-6-4C	20630-6-4
9/16x18	3/8	-6	1.6	20630-6-6C	20630-6-6
9/16x18	3/8	-8	1.8	—	20630-6-8+
3/4x16	1/2	-4	1.68	—	20630-8-4~+
3/4x16	1/2	-6	1.71	20630-8-6C~	20630-8-6~
3/4x16	1/2	-8	1.85	20630-8-8C~	20630-8-8~
3/4x16	1/2	-10	1.9	—	20630-8-10~+
7/8x14	5/8	-6	1.89	—	20630-10-6~+
7/8x14	5/8	-8	1.96	20630-10-8C~	20630-10-8~
7/8x14	5/8	-10	2.08	20630-10-10C~	20630-10-10~
7/8x14	5/8	-12	1.97	—	20630-10-12~
1-1/16x12	3/4	-8	2.13	20630-12-8C+	20630-12-8
1-1/16x12	3/4	-10	2.19	—	20630-12-10
1-1/16x12	3/4	-12	2.07	20630-12-12C	20630-12-12
1-3/16x12	7/8	-12	2.07	20630-14-12C+	20630-14-12
1-3/16x12	7/8	-16	2.13	—	20630-14-16+
1-5/16x12	1	-12	2.15	20630-16-12C+	20630-16-12
1-5/16x12	1	-16	2.22	20630-16-16C	20630-16-16
1-5/8x12	1-1/4	-16	2.44	20630-20-16C+	20630-20-16
1-5/8x12	1-1/4	-20	2.5	20630-20-20C	20630-20-20
1-7/8x12	1-1/2	-20	2.68	20630-24-20C+	—
1-7/8x12	1-1/2	-24	3.05	20630-24-24C+	20630-24-24
2-1/2x12	2	-32	3.91	20630-32-32C+	20630-32-32

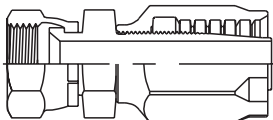
*Type 316 Stainless Steel. Stainless Steel reusable fittings utilize Everlube on the nipple thread.

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

Female SAE 45° Swivel

20830

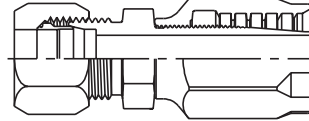


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
5/8x18	3/8	-6	1.66	20830-6-6

Notch in nut for SAE identification on size -6.

Ferrul-Fix (SAE Flareless)

21130



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.45	21130-4-4
7/16x20	1/4	-6	1.71	21130-4-6
1/2x20	5/16	-6	1.73	21130-5-6+
9/16x18	3/8	-4	1.78	21130-6-4+
9/16x18	3/8	-6	1.83	21130-6-6
3/4x16	1/2	-6	1.98	21130-8-6
3/4x16	1/2	-8	2.10	21130-8-8
3/4x16	1/2	-8	2.10	21130-8-8C+
7/8x14	5/8	-6	2.09	21130-10-6+
7/8x14	5/8	-8	2.17	21130-10-8
1-1/16x12	3/4	-10	2.37	21130-12-10C+
1-1/16x12	3/4	-12	2.32	21130-12-12
1-3/16x12	7/8	-12	2.41	21130-14-12+
1-5/16x12	1	-16	2.44	21130-16-16
1-5/8x12	1-1/4	-16	2.57	21130-20-16+

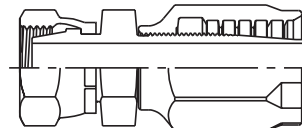
The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy, on the job repairs.

See page M34 for assembly instructions.

+Non-standard.

Female SAE Flareless Swivel

21230



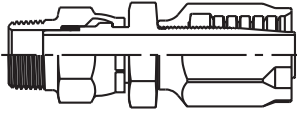
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.48	21230-4-4
9/16x18	3/8	-4	1.62	21230-6-4+
9/16x18	3/8	-6	1.60	21230-6-6
3/4x16	1/2	-6	1.77	21230-8-6
3/4x16	1/2	-8	1.85	21230-8-8
7/8x14	5/8	-8	2.03	21230-10-8
7/8x14	5/8	-10	2.08	21230-10-10+
7/8x14	5/8	-12	1.97	21230-10-12+
1-1/16x12	3/4	-12	2.01	21230-12-12
1-3/16x12	7/8	-12	2.06	21230-14-12+
1-5/16x12	1	-16	2.22	21230-16-16
1-5/8x12	1-1/4	-20	2.44	21230-20-20+
1-7/8x12	1-1/2	-24	3.05	21230-24-24+

Connects with Parker Ferrulok tube fittings and other SAE J514 flareless tube fittings.

+Non-standard.

Male Pipe Swivel NPTF

21330



Pipe Thread	Hose Size	Cut-Off Allow.	Steel Part No.
1/8x27	-4	2.41	21330-2-4+
1/4x18	-4	2.42	21330-4-4
3/8x18	-6	2.35	21330-6-6
1/2x14	-8	2.70	21330-8-8
1/2x14	-8	2.70	21330-8-8C+
3/4x14	-12	2.83	21330-12-12
3/4x14	-12	2.83	21330-12-12C+
1x11-1/2	-16	3.18	21330-16-16
1x11-1/2	-16	3.18	21330-16-16C+

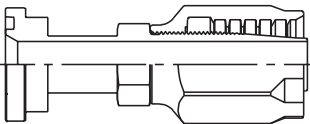
The 21330 fitting allows minor movement under pressure to relieve stress on hose but is not recommended for continuous or extensive swiveling. For continuous swivel under pressure service use S-Series Swivels.

O-Ring not to be used with Phosphate Ester Fluid.

+Non-standard.

SAE (Code 61) Flange Head Straight

21530



SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.68	21530-8-8
1/2	-8	2.68	21530-8-8C+
3/4	-8	2.74	21530-12-8
3/4	-12	2.52	21530-12-12
3/4	-12	2.52	21530-12-12C+
1	-12	2.52	21530-16-12
1	-16	2.58	21530-16-16
1	-32	5.43	21530-16-32+
1-1/4	-12	2.52	21530-20-12
1-1/4	-16	2.58	21530-20-16
1-1/4	-20	3.24	21530-20-20
1-1/4	-24	3.61	21530-20-24+*
1-1/2	-20	3.31	21530-24-20
1-1/2	-24	3.68	21530-24-24
2	-32	4.34	21530-32-32

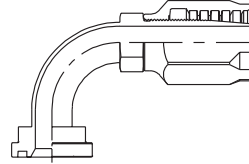
Flange kits listed under accessories.

*Also available in 316 stainless steel. Add "C" to part no. Example: 21530-20-24C.

+Non-standard.

SAE (Code 61) Flange Head 45° Elbow

21730



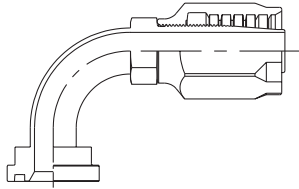
SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.61	21730-8-8+
3/4	-8	2.66	21730-12-8
3/4	-12	2.60	21730-12-12
1	-12	2.60	21730-16-12
1	-16	2.81	21730-16-16
1	-20	3.08	21730-16-20+
1/2	-12	2.58	21730-20-12+
1-1/4	-16	2.81	21730-20-16
1-1/4	-20	3.08	21730-20-20
1-1/2	-20	3.12	21730-24-20
1-1/2	-24	4.68	21730-24-24
2	-32	6.62	21730-32-32

Flange kits listed under accessories.

+Non-standard.

**SAE (Code 61) Flange Head
90° Elbow**

21930



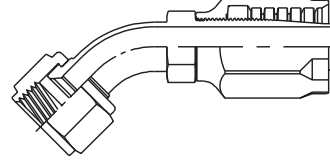
SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.02	21930-8-8
3/4	-8	2.02	21930-12-8
3/4	-8	2.02	21930-12-8C+
3/4	-12	2.30	21930-12-12
3/4	-16	2.34	21930-12-16+
1	-12	2.30	21930-16-12
1	-16	2.61	21930-16-16
1-1/4	-12	2.30	21930-20-12
1-1/4	-16	2.61	21930-20-16
1-1/4	-16	2.61	21930-20-16C+
1-1/4	-20	2.98	21930-20-20
1-1/2	-16	2.61	21930-24-16+
1-1/2	-20	2.98	21930-24-20
1-1/2	-24	4.69	21930-24-24
2	-24	4.69	21930-32-24+
2	-32	6.12	21930-32-32
2-1/4	-32	6.12	21930-40-32+

Flange kits listed under accessories.

+Non-standard.

**SAE JIC 37° Swivel
45° Elbow**

23730



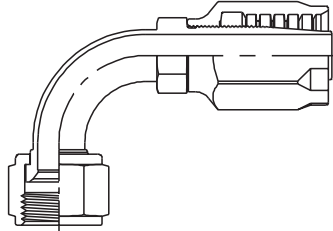
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.72	23730-4-4~
9/16x18	3/8	-6	1.86	23730-6-6
3/4x16	1/2	-6	2.13	23730-8-6~+
3/4x16	1/2	-8	2.21	23730-8-8~
7/8x14	5/8	-8	2.26	23730-10-8~
7/8x14	5/8	-10	2.31	23730-10-10~
7/8x14	5/8	-12	2.20	23730-10-12~+
1-1/16x12	3/4	-10	2.64	23730-12-10+
1-1/16x12	3/4	-12	2.53	23730-12-12
1-5/16x12	1	-12	2.55	23730-16-12+
1-5/16x12	1	-16	2.79	23730-16-16
1-5/8x12	1-1/4	-20	3.47	23730-20-20+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**SAE JIC 37° Swivel
90° Elbow**

23930



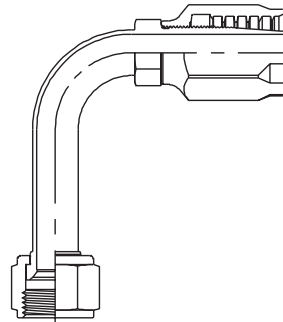
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.56	23930-4-4~
9/16x18	3/8	-6	1.77	23930-6-6
3/4x16	1/2	-6	1.86	23930-8-6~
3/4x16	1/2	-6	1.86	23930-8-6C~+
3/4x16	1/2	-8	1.97	23930-8-8~
7/8x14	5/8	-8	2.12	23930-10-8~
7/8x14	5/8	-10	2.17	23930-10-10~
7/8x14	5/8	-12	2.06	23930-10-12~+
1-1/16x12	3/4	-10	2.51	23930-12-10+
1-1/16x12	3/4	-12	2.45	23930-12-12
1-5/16x12	1	-12	2.45	23930-16-12+
1-5/16x12	1	-16	2.76	23930-16-16
1-5/8x12	1-1/4	-20	2.98	23930-20-20
1-7/8x12	1-1/2	-24	3.60	23930-24-24+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**SAE JIC 37° Swivel
90° Elbow (Long)**

24130



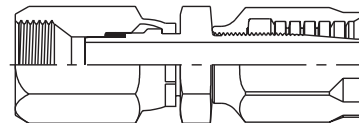
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.71	24130-4-4~
1/2x20	5/16	-4	1.59	24130-5-4~+
9/16x18	3/8	-4	1.71	24130-6-4+
9/16x18	3/8	-6	1.76	24130-6-6
3/4x16	1/2	-6	1.97	24130-8-6~+
3/4x16	1/2	-8	2.05	24130-8-8~
7/8x14	5/8	-8	2.19	24130-10-8~
7/8x14	5/8	-10	2.24	24130-10-10~
1-1/16x12	3/4	-12	2.33	24130-12-12
1-5/16x12	1	-16	2.61	24130-16-16
1-5/8x12	1-1/4	-20	3.31	24130-20-20+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**Female JIC 37° Swivel
Under Pressure Straight**

24830



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-4	2.75	24830-6-4
3/4x16	1/2	-6	2.82	24830-8-6~
7/8x14	5/8	-8	3.17	24830-10-8~
1-3/16x12	7/8	-12	3.34	24830-14-12
1-5/16x12	1	-16	3.42	24830-16-16

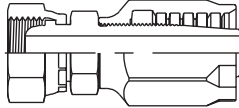
The 24830 fitting allows minor movement under pressure to relieve stress on hose but is not recommended for continuous or extensive swiveling. For continuous swivel under pressure service use S-Series Swivels.

O-Ring not to be used with Phosphate Ester Fluids.

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

**BSP Swivel Female
Ballnose**

29230

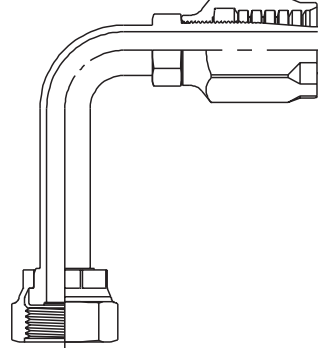


Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	2.56	29230-4-4
3/8x19	-6	3/8	1.68	29230-6-6
1/2x14	-8	1/2	3.35	29230-8-8
5/8x14	-8	1/2	3.19	29230-10-8
5/8x14	-10	5/8	2.00	29230-10-10
5/8x14	-12	3/4	1.89	29230-10-12+
3/4x14	-12	3/4	3.35	29230-12-12
1x11	-16	1	4.02	29230-16-16
1-1/4x11	-20	1-1/4	4.96	29230-20-20
1-1/2x11	-24	1-1/2	5.12	29230-24-24

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Long)**

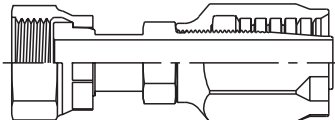
2J130



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.81	2J130-4-4
11/16x16	3/8	-6	1.89	2J130-6-6
13/16x16	1/2	-8	2.04	2J130-8-8
1x14	5/8	-10	2.24	2J130-10-10
1-3/16x12	3/4	-12	2.32	2J130-12-12
1-7/16x12	1	-16	2.61	2J130-16-16

**Female Seal-Lok Swivel
Straight**

2JS30



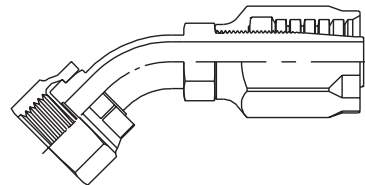
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.64	2JS30-4-4
11/16x16	3/8	-6	1.75	2JS30-6-6
13/16x16	1/2	-6	1.90	2JS30-8-6+*
13/16x16	1/2	-8	1.98	2JS30-8-8
1x14	5/8	-10	2.13	2JS30-10-10
1-3/16x12	3/4	-12	2.23	2JS30-12-12
1-7/16x12	1	-16	2.31	2JS30-16-16
1-11/16x12	1-1/4	-20	2.40	2JS30-20-20

*Also available in 316 stainless steel. Add "C" to part no.
Example: 2JS30-8-6C.

+Non-standard.

**Female Seal-Lok Swivel
45° Elbow**

2J730

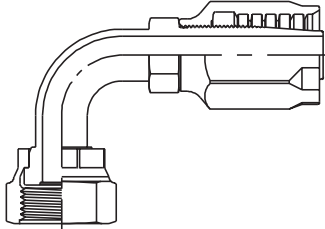


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.95	2J730-4-4
11/16x16	3/8	-6	1.91	2J730-6-6
11/16x16	3/8	-6	1.91	2J730-6-6C+
13/16x16	1/2	-8	2.24	2J730-8-8
1x14	5/8	-10	2.44	2J730-10-10
1-3/16x12	3/4	-12	2.40	2J730-12-12
1-7/16x12	1	-16	3.08	2J730-16-16
1-11/16x12	1-1/4	-20	3.32	2J730-20-20

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Short)**

2J930

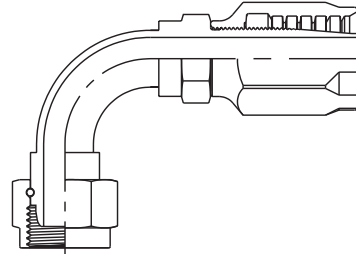


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.87	2J930-4-4
11/16x16	3/8	-6	1.77	2J930-6-6
13/16x16	1/2	-6	1.82	2J930-8-6+
13/16x16	1/2	-8	1.97	2J930-8-8
1x14	5/8	-10	2.13	2J930-10-10
1-3/16x12	3/4	-12	2.51	2J930-12-12
1-7/16x12	1	-16	3.02	2J930-16-16
1-11/16x12	1-1/4	-20	3.44	2J930-20-20

+Non-standard.

**BSP Swivel Female
90° Elbow - Ballnose**

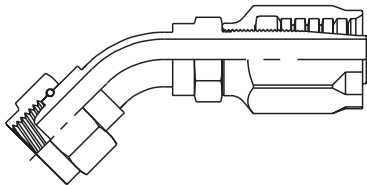
2B230



Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.57	2B230-4-4
3/8x19	-6	3/8	1.93	2B230-6-6
1/2x14	-8	1/2	2.08	2B230-8-8
5/8x14	-8	1/2	2.84	2B230-10-8
5/8x14	-10	5/8	2.64	2B230-10-10
3/4x14	-12	3/4	2.87	2B230-12-12
1x11	-16	1	2.95	2B230-16-16
1-1/4x11	-20	1-1/4	3.25	2B230-20-20

**BSP Swivel Female
45° Elbow - Ballnose**

2B130

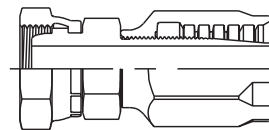


Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.93	2B130-4-4
3/8x19	-6	3/8	2.28	2B130-6-6
1/2x14	-8	1/2	2.52	2B130-8-8
5/8x14	-10	5/8	2.83	2B130-10-10
3/4x14	-12	3/4	3.11	2B130-12-12
1x11	-16	1	3.23	2B130-16-16

**Metric Swivel Female
DIN 20078 Light Series**

2C330

Mates with EO "L" Series Fittings



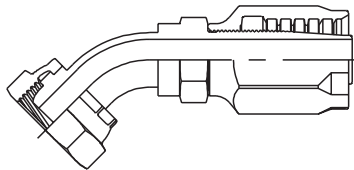
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Steel Part No.
M12x1.5	6	-4	1/4	1.22	2C330-6-4
M14x1.5	8	-4	1/4	1.26	2C330-8-4
M16x1.5	10	-5	5/16	1.91	2C330-10-5+
M16x1.5	10	-6	3/8	1.38	2C330-10-6
M18x1.5	12	-6	3/8	1.34	2C330-12-6
M22x1.5	15	-8	1/2	1.61	2C330-15-8
M26x1.5	18	-10	5/8	1.65	2C330-18-10
M26x1.5	18	-12	3/4	1.50	2C330-18-12
M30x2	22	-12	3/4	1.65	2C330-22-12
M36x2	28	-16	1	2.01	2C330-28-16
M45x2	35	-20	1-1/4	2.28	2C330-35-20
M52x2	42	-24	1-1/2	2.52	2C330-42-24

+Non-standard.

**Metric Swivel Female
DIN 20078 Light Series
45° Elbow**

2C430

Mates with EO "L" Series Fittings

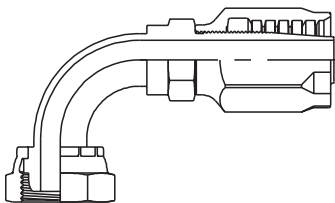


Thread Size	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	1.77	2C430-6-4
M14x1.5	8	-4	1/4	1.93	2C430-8-4
M16x1.5	10	-6	3/8	2.20	2C430-10-6
M18x1.5	12	-6	3/8	2.28	2C430-12-6
M22x1.5	15	-8	1/2	2.52	2C430-15-8
M26x1.5	18	-10	5/8	2.83	2C430-18-10
M30x2	22	-12	3/4	3.11	2C430-22-12
M36x2	28	-16	1	3.23	2C430-28-16

**Metric Swivel Female
DIN 20078 Light Series
90° Elbow**

2C530

Mates with EO "L" Series Fittings



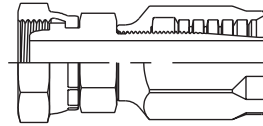
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Steel Part No.
M12x1.5	6	-4	1/4	1.57	2C530-6-4
M14x1.5	8	-4	1/4	1.57	2C530-8-4
M16x1.5	10	-5	5/16	1.77	2C530-10-5+
M16x1.5	10	-6	3/8	1.85	2C530-10-6
M18x1.5	12	-6	3/8	1.93	2C530-12-6
M22x1.5	15	-8	1/2	2.09	2C530-15-8
M26x1.5	18	-10	5/8	2.64	2C530-18-10
M26x1.5	18	-12	3/4	2.83	2C530-18-12
M30x2	22	-12	3/4	2.87	2C530-22-12
M36x2	28	-16	1	2.95	2C530-28-16

+Non-standard.

**Metric Female Swivel
DIN 20078 Heavy Series**

2C630

Mates with EO "S" Series Fittings



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Steel Part No.
M16x1.5	8	-4	1/4	1.34	2C630-8-4
M18x1.5	10	-4	1/4	1.38	2C630-10-4
M18x1.5	10	-6	3/8	1.58	2C630-10-6+
M20x1.5	12	-6	3/8	1.46	2C630-12-6
M22x1.5	14	-6	3/8	1.82	2C630-14-6
M24x1.5	16	-8	1/2	1.57	2C630-16-8
M30x2	20	-10	5/8	1.81	2C630-20-10
M30x2	20	-12	3/4	1.77	2C630-20-12
M36x2	25	-12	3/4	1.61	2C630-25-12
M42x2	30	-16	1	1.85	2C630-30-16
M52x2	38	-20	1-1/4	1.91	2C630-38-20

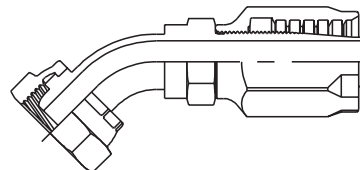
*Also available with O-Ring in hose-Order 2C930 in place of 2C630

+Non-standard.

**Metric Swivel Female
DIN 20078 Heavy Series
45° Elbow**

2C730

Mates with EO "S" Series Fittings



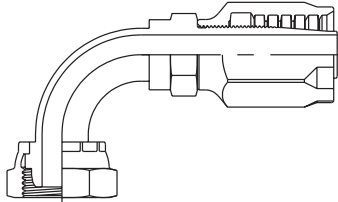
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Steel Part No.
M18x1.5	10	-4	1/4	1.97	2C730-10-4
M20x1.5	12	-5	5/16	2.09	2C730-12-5+
M20x1.5	12	-6	3/8	2.24	2C730-12-6
M22x1.5	14	-6	3/8	2.36	2C730-14-6
M24x1.5	16	-8	1/2	2.48	2C730-16-8
M30x2	20	-10	5/8	2.91	2C730-20-10
M36x2	25	-12	3/4	3.07	2C730-25-12
M42x2	30	-16	1	3.15	2C730-30-16

+Non-standard.

**Metric Swivel Female
DIN 20078 Heavy Series
90° Elbow**

2C830

Mates with EO "S" Series Fittings

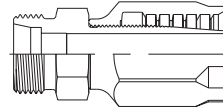


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Steel Part No.
M18x1.5	10	-4	1/4	1.31	2C830-10-4
M20x1.5	12	-6	3/8	1.85	2C830-12-6
M22x1.5	14	-6	3/8	0.98	2C830-14-6
M24x1.5	16	-8	1/2	2.09	2C830-16-8
M30x2	20	-10	5/8	2.64	2C830-20-10
M30x2	20	-12	3/4	2.76	2C830-20-12
M36x2	25	-12	3/4	2.87	2C830-25-12
M42x2	30	-16	1	2.95	2C830-30-16

**Metric Male Stud
DIN 20078 Heavy Series**

2D230

Mates with EO "S" Series Fittings



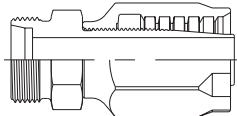
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M16x1.5	8	4	1/4	1.22	2D230-8-4
M18x1.5	10	4	1/4	1.26	2D230-10-4
M20x1.5	12	6	3/8	1.34	2D230-12-6
M22x1.5	14	6	3/8	1.38	2D230-14-6
M24x1.5	16	8	1/2	1.54	2D230-16-8
M30x2	20	10	5/8	1.73	2D230-20-10
M30x2	20	12	3/4	1.61	2D230-20-12
M36x2	25	12	3/4	1.77	2D230-25-12
M42x2	30	16	1	1.89	2D230-30-16
M52x2	38	20	1-1/4	2.36	2D230-38-20+

+Non-standard.

**Metric Male Stud DIN
20078 Light Series**

2D030

Mates with EO "L" Series Fittings



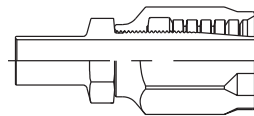
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Steel Part No.
M12x1.5	6	-4	1/4	1.06	2D030-6-4
M14x1.5	8	-4	1/4	1.06	2D030-8-4
M16x1.5	10	-5	5/16	1.18	2D030-10-5+
M16x1.5	10	-6	3/8	1.22	2D030-10-6
M18x1.5	12	-6	3/8	1.18	2D030-12-6
M22x1.5	15	-8	1/2	1.30	2D030-15-8
M26x1.5	18	-10	5/8	1.42	2D030-18-10
M26x1.5	18	-12	3/4	1.30	2D030-18-12
M30x2	22	-12	3/4	1.42	2D030-22-12+
M36x2	28	-16	1	1.42	2D030-28-16+
M45x2	35	-20	1-1/4	2.01	2D030-35-20
M52x2	42	-24	1-1/2	1.89	2D030-42-24+

+Non-standard.

**Metric Standpipe
Light Series**

21D30

Mates with EO "L" Series Fittings

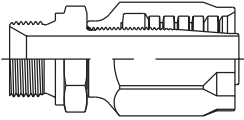


Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
-6	-4	1/4	1.54	21D30-6-4
-8	-4	1/4	1.57	21D30-8-4
-10	-6	3/8	1.69	21D30-10-6+
-12	-6	3/8	1.65	21D30-12-6
-15	-8	1/2	1.85	21D30-15-8
-18	-10	5/8	2.01	21D30-18-10
-18	-12	3/4	1.85	21D30-18-12
-22	-12	3/4	1.93	21D30-22-12
-28	-16	1	2.24	21D30-28-16
-35	-20	1-1/4	2.87	21D30-35-20
-42	-24	1-1/2	2.87	21D30-42-24

+Non-standard.

Male BSP Parallel

2D930

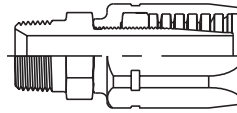


Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Steel Part No.
1/4x19	-4	1/4	1.30	2D930-4-4
3/8x19	-6	3/8	1.34	2D930-6-6
3/8x19	-6	3/8	1.34	2D930-6-6C+
1/2x14	-6	3/8	1.58	2D930-8-6+
1/2x14	-8	1/2	1.57	2D930-8-8
3/4x14	-12	3/4	1.65	2D930-12-12
1x11	-16	1	1.85	2D930-16-16
1-1/4x11	-20	1-1/4	2.28	2D930-20-20

+Non-standard.

Male Pipe NPTF

20134



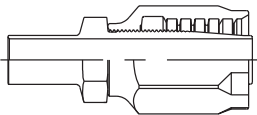
Pipe Thread	Hose Size	Cut-Off Allow.	Steel Part No.
1/4x18	-6	1.28	20134-4-6
3/8x18	-6	1.28	20134-6-6
3/8x18	-6	1.28	20134-6-6C+
3/8x18	-8	1.46	20134-6-8
1/2x14	-6	1.47	20134-8-6
1/2x14	-8	1.65	20134-8-8
1/2x14	-8	1.65	20134-8-8C+
1/2x14	-12	1.70	20134-8-12+
3/4x14	-8	1.71	20134-12-8
3/4x14	-12	1.70	20134-12-12
3/4x14	-12	1.70	20134-12-12C+
3/4x14	-16	1.74	20134-12-16
1x11-1/2	-12	1.89	20134-16-12+
1x11-1/2	-16	1.93	20134-16-16

+Non-standard.

Metric Standpipe
Heavy Series

23D30

Mates with EO "S" Series Fittings

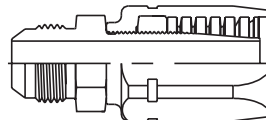


Nominal Tube Size MM	Hose Dash Size	Hose Size Inch	Cut-Off Allow. MM	Steel Part No.
8	-4	1/4	40	21D30-8-4 ^{^^^}
10	-4	1/4	45	23D30-10-4
12	-6	3/8	42	21D30-12-6 ^{^^^}
14	-6	3/8	48	23D30-14-6
16	-8	1/2	51	23D30-16-8
20	-10	5/8	62	23D30-20-10
20	-12	3/4	59	23D30-20-12
25	-12	3/4	66	23D30-25-12
30	-16	1	71	23D30-30-16
38	-20	1-1/4	88	23D30-38-20

^{^^^}21D30-8-4 and 21D30-12-6 can also be used with EO "L" Series fittings.

Male SAE JIC 37°

20334



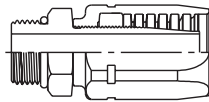
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-6	1.28	20334-6-6
3/4x16	1/2	-6	1.38	20334-8-6
3/4x16	1/2	-8	1.56	20334-8-8
7/8x14	5/8	-8	1.66	20334-10-8
1-1/16x12	3/4	-12	1.83	20334-12-12
1-3/16x12	7/8	-12	1.84	20334-14-12
1-3/16x12	7/8	-16	1.88	20334-14-16+
1-5/16x12	1	-12	1.86	20334-16-12+
1-5/16x12	1	-16	1.90	20334-16-16
1-1/2x12	1-1/8	-16	1.92	20334-18-16+

+Non-standard.

**SAE Straight Thread
O-Ring**

20534

SAE Thread Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	-6	1.15	20534-6-6
3/4x16	-6	1.22	20534-8-6
3/4x16	-8	1.41	20534-8-8
7/8x14	-6	1.34	20534-10-6+
7/8x14	-8	1.47	20534-10-8
7/8x14	-16	1.50	20534-10-16+
1-1/16x12	-8	1.63	20534-12-8
1-1/16x12	-12	1.62	20534-12-12
1-5/16x12	-16	1.69	20534-16-16+

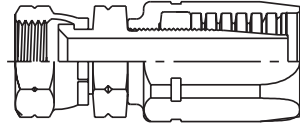


+Non-standard.

**Female SAE 45° Swivel
Straight**

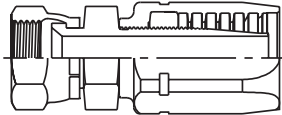
20834

Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
5/8x18	3/8	-6	1.50	20834-6-6



SAE JIC 37° Swivel

20634



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7503	0.25	-6	1.36	20634-4-6~+
1/2x20	5/16	-6	1.41	20634-5-6~+
9/16x18	3/8	-6	1.43	20634-6-6
9/16x18	3/8	-8	1.62	20634-6-8+
3/4x16	1/2	-6	1.56	20634-8-6~
3/4x16	1/2	-8	1.74	20634-8-8~
7/8x14	5/8	-8	1.84	20634-10-8~
7/8x14	5/8	-12	1.90	20634-10-12~
1-1/16x12	3/4	-8	2.01	20634-12-8
1-1/16x12	3/4	-12	2.00	20634-12-12
1-3/16x12	7/8	-12	2.00	20634-14-12
1-3/16x12	7/8	-16	2.04	20634-14-16+
1-5/16x12	1	-12	2.09	20634-16-12
1-5/16x12	1	-16	2.12	20634-16-16
1-5/8x12	1-1/4	-16	2.38	20634-20-16

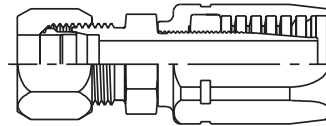
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

Ferrule-Fix (SAE Flareless)

21134

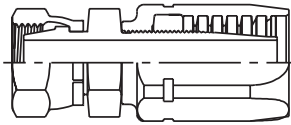
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-6	1.54	21134-4-6
1/2x20	5/16	-6	1.56	21134-5-6+
9/16x18	3/8	-6	1.66	21134-6-6
3/4x16	1/2	-6	1.81	21134-8-6
3/4x16	1/2	-8	1.98	21134-8-8
7/8x14	5/8	-6	1.92	21134-10-6+
7/8x14	5/8	-8	2.05	21134-10-8
1-1/16x12	3/4	-12	2.26	21134-12-12
1-3/16x12	7/8	-12	2.35	21134-14-12+
1-5/16x12	1	-16	2.31	21134-16-16
1-5/8x12	1-1/4	-16	2.44	21134-20-16+



+Non-standard.

**Female Flareless - Swivel
Straight (24° Cone)**

21234

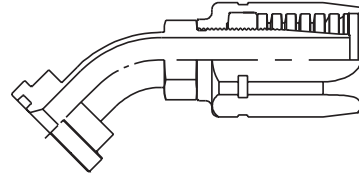


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-6	1.45	21234-6-6
3/4x16	1/2	-6	1.61	21234-8-6
3/4x16	1/2	-8	1.73	21234-8-8
7/8x14	5/8	-8	1.91	21234-10-8
7/8x14	5/8	-12	1.91	21234-10-12+
1-1/16x12	3/4	-12	1.94	21234-12-12
1-3/16x12	7/8	-12	1.99	21234-14-12+
1-5/16x12	1	-16	2.12	21234-16-16

+Non-standard.

**SAE Code 61 Flange
45° Elbow**

21734



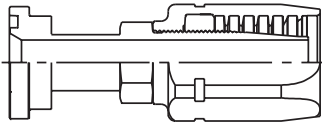
Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.53	21734-8-8+
3/4	-8	2.56	21734-12-8
3/4	-12	2.49	21734-12-12
1	-12	2.49	21734-16-12
1	-16	2.68	21734-16-16
1-1/4	-12	2.51	21734-20-12+
1-1/4	-16	2.72	21734-20-16

Flange kits listed under accessories.

+Non-standard.

**SAE Code 61 Flange
Straight**

21534



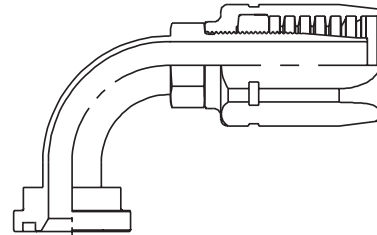
Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.56	21534-8-8
3/4	-8	2.63	21534-12-8+
3/4	-12	2.41	21534-12-12
1	-12	2.41	21534-16-12
1	-16	2.49	21534-16-16
1-1/4	-12	2.43	21534-20-12
1-1/4	-16	2.49	21534-20-16+

Flange kits listed under accessories.

+Non-standard.

**SAE Code 61 Flange
90° Elbow**

21934



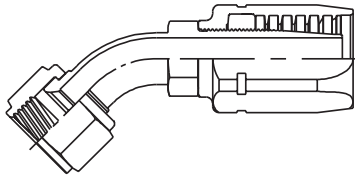
Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	1.91	21934-8-8
3/4	-8	1.90	21934-12-8
3/4	-8	1.90	21934-12-8C+
3/4	-12	2.21	21934-12-12
1	-12	2.21	21934-16-12
1	-16	2.52	21934-16-16
1-1/4	-12	2.21	21934-20-12
1-1/4	-16	2.52	21934-20-16
1-1/2	-16	2.52	21934-24-16+

Flange kits listed under accessories.

+Non-standard.

**Female JIC 37° Swivel
45° Elbow**

23734

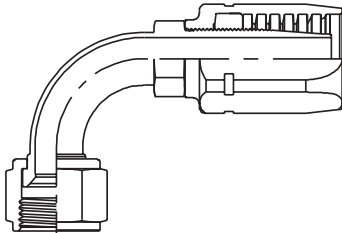


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-6	1.71	23734-6-6
3/4x16	1/2	-8	2.09	23734-8-8~
7/8x14	5/8	-8	2.15	23734-10-8~
1-1/16x12	3/4	-12	2.43	23734-12-12
1-5/16x12	1	-16	2.69	23734-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

**Female JIC 37° Swivel
90° Elbow**

23934



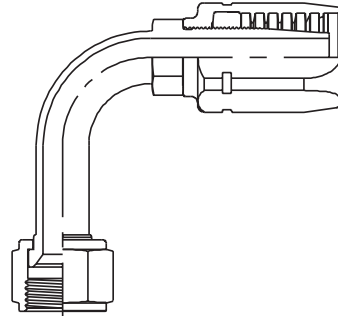
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-6	1.60	23934-6-6
3/4x16	1/2	-8	1.74	23934-8-6~
3/4x16	1/2	-8	1.85	23934-8-8~
7/8x14	5/8	-8	2.00	23934-10-8~
7/8x14	5/8	-12	1.99	23934-10-12~+
1-1/16x12	3/4	-12	2.36	23934-12-12
1-5/16x12	1	-12	2.38	23934-16-12+
1-5/16x12	1	-16	2.66	23934-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**Female JIC 37° Swivel
90° Elbow (Long)**

24134



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-6	1.60	24134-6-6
3/4x16	1/2	-6	1.81	24134-8-6~+
3/4x16	1/2	-8	1.93	24134-8-8~
7/8x14	5/8	-8	2.07	24134-10-8~
1-1/16x12	3/4	-12	2.25	24134-12-12
1-5/16x12	1	-16	2.51	24134-16-16

Note: The fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling.

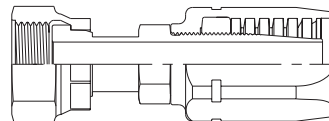
Note: O-ring is not compatible with Phosphate Ester Fluids.®

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**Female Seal-Lok Swivel
Straight**

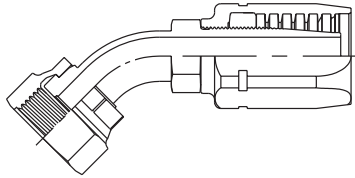
2JS34



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
11/16x16	3/8	-6	1.59	2JS34-6-6
13/16x16	1/2	-6	1.74	2JS34-8-6+
13/16x16	1/2	-8	1.86	2JS34-8-8
1-3/16x12	3/4	-12	2.15	2JS34-12-12
1-7/16x12	1	-16	2.21	2JS34-16-16

**Female Seal-Lok Swivel
45° Elbow**

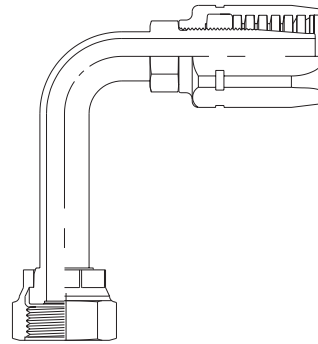
2J734



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
11/16x16	3/8	-6	1.74	2J734-6-6
13/16x16	1/2	-8	2.12	2J734-8-8
1-3/16x12	3/4	-12	2.33	2J734-12-12
1-7/16x12	1	-16	2.99	2J734-16-16

**Female Seal-Lok Swivel
90° Elbow (Long)**

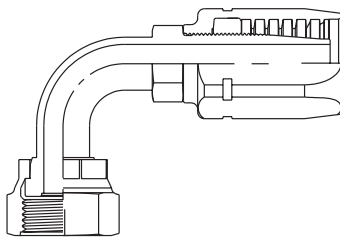
2J134



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
11/16x16	3/8	-6	1.71	2J134-6-6
13/16x16	1/2	-8	1.90	2J134-8-8
1-3/16x12	3/4	-12	2.25	2J134-12-12
1-7/16x12	1	-16	2.52	2J134-16-16

**Female Seal-Lok Swivel
90° Elbow (Short)**

2J934

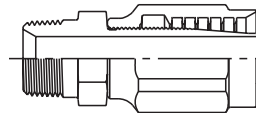


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
11/16x16	3/8	-6	1.61	2J934-6-6
13/16x16	1/2	-6	1.66	2J934-8-6+
13/16x16	1/2	-8	1.85	2J934-8-8
1-3/16x12	3/4	-12	2.21	2J934-12-12
1-7/16x12	1	-16	2.93	2J934-16-16

+Non-standard.

Male Pipe NPTF

20142

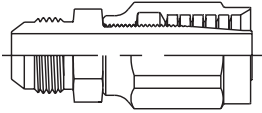


Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/8x27	-3	1.31	—	20142-2-3
1/8x27	-4	1.27	20142-2-4B+	20142-2-4
1/4x18	-3	1.50	—	20142-4-3
1/4x18	-4	1.45	20142-4-4B+	20142-4-4
1/4x18	-5	1.44	—	20142-4-5
1/4x18	-6	1.45	—	20142-4-6
3/8x18	-4	1.45	—	20142-6-4
3/8x18	-6	1.45	—	20142-6-6
3/8x18	-8	1.50	—	20142-6-8
1/2x14	-4	1.81	—	20142-8-4+
1/2x14	-6	1.64	—	20142-8-6
1/2x14	-8	1.69	—	20142-8-8
1/2x14	-10	1.87	—	20142-8-10
1/2x14	-12	1.75	—	20142-8-12+
3/4x14	-8	1.75	—	20142-12-8
3/4x14	-10	1.87	—	20142-12-10+
3/4x14	-12	1.75	—	20142-12-12
3/4x14	-16	1.88	—	20142-12-16
1x11-1/2	-12	1.94	—	20142-16-12+
1x11-1/2	-16	2.07	—	20142-16-16

+Non-standard.

Male SAE JIC 37°

20342

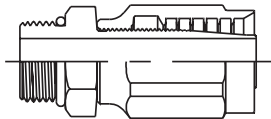


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
7/16x20	1/4	-3	1.42	—	20342-4-3+
7/16x20	1/4	-4	1.45	20342-4-4B+	20342-4-4
7/16x20	1/4	-6	1.44	—	20342-4-6+
1/2x20	5/16	-4	1.45	—	20342-5-4
1/2x20	5/16	-5	1.43	—	20342-5-5+
9/16x18	3/8	-3	1.53	—	20342-6-3+
9/16x18	3/8	-4	1.45	—	20342-6-4
9/16x18	3/8	-5	1.43	—	20342-6-5
9/16x18	3/8	-6	1.44	—	20342-6-6
3/4x16	1/2	-6	1.54	—	20342-8-6
3/4x16	1/2	-8	1.60	—	20342-8-8
3/4x16	1/2	-8	1.60	—	20342-8-8C+
7/8x14	5/8	-8	1.70	—	20342-10-8
7/8x14	5/8	-10	1.82	—	20342-10-10
1-1/16x12	3/4	-10	1.98	—	20342-12-10+
1-1/16x12	3/4	-12	1.86	—	20342-12-12
1-3/16x12	7/8	-12	1.89	—	20342-14-12
1-3/16x12	7/8	-16	2.02	—	20342-14-16+
1-5/16x12	1	-12	1.90	—	20342-16-12+
1-5/16x12	1	-16	2.04	—	20342-16-16
1-1/2x12	1-1/8	-16	2.07	—	20342-18-16+

+Non-standard.

SAE Straight Thread O-Ring

20542



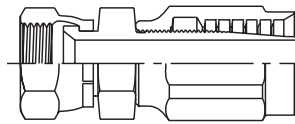
SAE Thread Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	-3	1.34	20542-4-3+
7/16x20	-4	1.30	20542-4-4
1/2x20	-4	1.30	20542-5-4+
1/2x20	-5	1.28	20542-5-5+
9/16x18	-4	1.33	20542-6-4
9/16x18	-5	1.31	20542-6-5+
9/16x18	-6	1.32	20542-6-6
3/4x16	-6	1.40	20542-8-6
3/4x16	-8	1.45	20542-8-8
7/8x14	-6	1.52	20542-10-6+
7/8x14	-8	1.51	20542-10-8
7/8x14	-16	1.64	20542-10-16+
1-1/16x12	-8	1.67	20542-12-8
1-1/16x12	-10	1.80	20542-12-10+
1-1/16x12	-12	1.67	20542-12-12
1-5/16x12	-16	1.83	20542-16-16+

*O-Ring not to be used with phosphate ester fluid.

+Non-standard.

Female SAE JIC 37° Swivel

20642



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-3	1.57	20642-4-3~
7/16x20	1/4	-4	1.51	20642-4-4~
7/16x20	1/4	-4	1.51	20642-4-4C~
7/16x20	1/4	-6	1.53	20642-4-6~+
1/2x20	5/16	-4	1.60	20642-5-4~
1/2x20	5/16	-5	1.58	20642-5-5~
1/2x20	5/16	-6	1.59	20642-5-6~+
9/16x18	3/8	-4	1.62	20642-6-4*
9/16x18	3/8	-5	1.60	20642-6-5
9/16x18	3/8	-6	1.60	20642-6-6*
9/16x18	3/8	-8	1.72	20642-6-8+
3/4x16	1/2	-4	1.73	20642-8-4~+
3/4x16	1/2	-6	1.72	20642-8-6~
3/4x16	1/2	-6	1.72	20642-8-6C~
3/4x16	1/2	-8	1.77	20642-8-8~
3/4x16	1/2	-8	1.77	20642-8-8C~
3/4x16	1/2	-10	1.89	20642-8-10~+
7/8x14	5/8	-8	1.88	20642-10-8~
7/8x14	5/8	-8	1.88	20642-10-8C~
7/8x14	5/8	-10	2.07	20642-10-10~
7/8x14	5/8	-12	1.95	20642-10-12~
1-1/16x12	3/4	-8	2.06	20642-12-8
1-1/16x12	3/4	-10	2.18	20642-12-10
1-1/16x12	3/4	-12	2.06	20642-12-12
1-3/16x12	7/8	-12	2.06	20642-14-12
1-3/16x12	7/8	-16	2.19	20642-14-16+
1-5/16x12	1	-12	2.14	20642-16-12
1-5/16x12	1	-16	2.27	20642-16-16
1-5/8x12	1-1/4	-16	2.44	20642-20-16

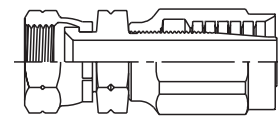
Stainless Steel reusable fittings utilize Everlube on the nipple thread.

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

Female SAE 45° Swivel

20842

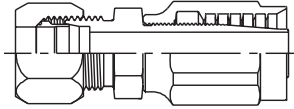


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
5/8x18	3/8	-6	1.67	20842-6-6

Notch in nut for SAE identification on size -6.

Ferrul-Fix (SAE Flareless)

21142

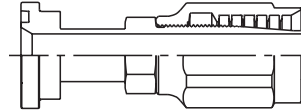


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.72	21142-4-4
7/16x20	1/4	-6	1.72	21142-4-6
1/2x20	5/16	-6	1.74	21142-5-6+
9/16x18	3/8	-4	1.83	21142-6-4+
9/16x18	3/8	-6	1.84	21142-6-6
3/4x16	1/2	-6	2.00	21142-8-6
3/4x16	1/2	-8	2.02	21142-8-8
7/8x14	5/8	-6	2.10	21142-10-6+
7/8x14	5/8	-8	2.09	21142-10-8
1-1/16x12	3/4	-10	2.36	21142-12-10+
1-1/16x12	3/4	-12	2.30	21142-12-12
1-3/16x12	7/8	-12	2.39	21142-14-12+
1-5/16x12	1	-16	2.49	21142-16-16
1-5/8x12	1-1/4	-16	2.62	21142-20-16+

+Non-standard.

SAE (Code 61) Flange Head Straight

21542



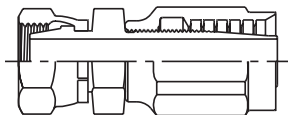
SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.60	21542-8-8
3/4	-8	2.66	21542-12-8+
3/4	-12	2.50	21542-12-12
1	-12	2.50	21542-16-12
1	-16	2.63	21542-16-16
1-1/4	-12	2.50	21542-20-12
1-1/4	-16	2.63	21542-20-16

Flange kits listed under accessories.

+Non-standard.

Female SAE Flareless Swivel

21242

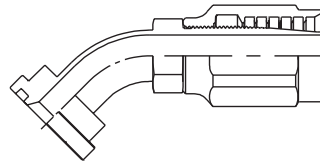


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.53	21242-4-4
1/2x20	5/16	-5	1.58	21242-5-5+
9/16x18	3/8	-4	1.62	21242-6-4+
9/16x18	3/8	-6	1.61	21242-6-6
3/4x16	1/2	-6	1.77	21242-8-6
3/4x16	1/2	-8	1.77	21242-8-8
7/8x14	5/8	-8	1.88	21242-10-8
7/8x14	5/8	-10	2.00	21242-10-10+
7/8x14	5/8	-12	1.88	21242-10-12+
1-1/16x12	3/4	-12	2.06	21242-12-12
1-3/16x12	7/8	-12	2.04	21242-14-12+
1-5/16x12	1	-16	2.27	21242-16-16

+Non-standard.

SAE (Code 61) Flange Head 45° Elbow

21742



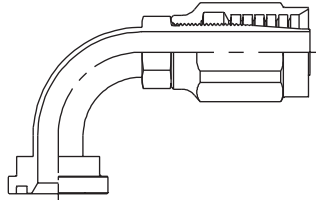
SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	2.54	21742-8-8+
3/4	-8	2.58	21742-12-8
3/4	-12	2.58	21742-12-12
1	-12	2.58	21742-16-12
1	-16	2.86	21742-16-16
1-1/4	-12	2.56	21742-20-12+
1-1/4	-16	2.86	21742-20-16

Flange kits listed under accessories.

+Non-standard.

**SAE (Code 61) Flange Head
90° Elbow**

21942

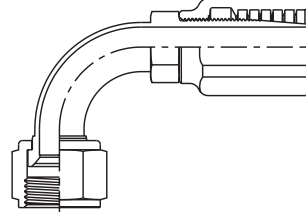


SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
1/2	-8	1.94	21942-8-8
3/4	-8	1.94	21942-12-8
3/4	-8	1.94	21942-12-8C+
3/4	-12	2.28	21942-12-12
1	-12	2.28	21942-16-12
1	-16	2.66	21942-16-16
1-1/4	-12	2.28	21942-20-12
1-1/4	-16	2.66	21942-20-16
1-1/2	-16	2.66	21942-24-16+

Flange kits listed under accessories.

**Female SAE JIC 37° Swivel
90° Elbow**

23942



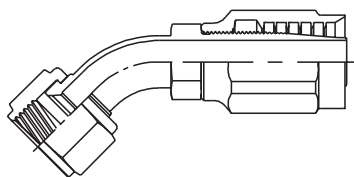
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.58	23942-4-4~
9/16x18	3/8	-6	1.78	23942-6-6
3/4x16	1/2	-6	1.90	23942-8-6~
3/4x16	1/2	-8	1.90	23942-8-8~
7/8x14	5/8	-8	2.04	23942-10-8~
7/8x14	5/8	-10	2.16	23942-10-10~
7/8x14	5/8	-12	2.04	23942-10-12~+
1-1/16x12	3/4	-10	2.55	23942-12-10+
1-1/16x12	3/4	-12	2.43	23942-12-12
1-5/16x12	3/4	-12	2.43	23942-16-12+
1-5/16x12	1	-16	2.81	23942-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**Female SAE JIC 37° Swivel
45° Elbow**

23742



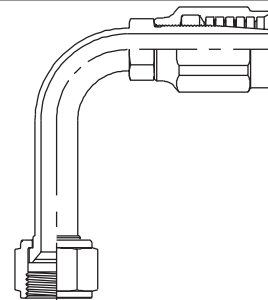
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.77	23742-4-4~
9/16x18	3/8	-6	1.88	23742-6-6
3/4x16	1/2	-6	2.13	23742-8-6~+
3/4x16	1/2	-8	2.13	23742-8-8~
7/8x14	5/8	-8	2.18	23742-10-8~
7/8x14	5/8	-10	2.30	23742-10-10~
7/8x14	5/8	-12	2.18	23742-10-12~+
1-1/16x12	3/4	-10	2.63	23742-12-10+
1-1/16x12	3/4	-12	2.50	23742-12-12
1-5/16x12	1	-12	2.58	23742-16-12+
1-5/16x12	1	-16	2.66	23742-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**Female SAE JIC 37° Swivel
90° Elbow (Long)**

24142



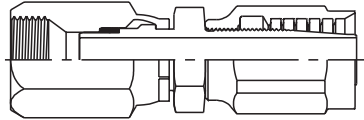
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
7/16x20	1/4	-4	1.76	24142-4-4~
9/16x18	3/8	-4	1.76	24142-6-4+
9/16x18	3/8	-6	1.78	24142-6-6
3/4x16	1/2	-6	1.98	24142-8-6~+
3/4x16	1/2	-8	2.00	24142-8-8~
7/8x14	5/8	-8	2.13	24142-10-8~
7/8x14	5/8	-10	2.23	24142-10-10~
1-1/16x12	3/4	-12	2.31	24142-12-12
1-5/16x12	1	-16	2.66	24142-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

Female JIC 37° Swivel Under Pressure Straight

24842



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	3/8	-4	2.80	24842-6-4
3/4x16	1/2	-6	2.83	24842-8-6~
7/8x14	5/8	-8	3.09	24842-10-8~
1-3/16x12	7/8	-12	3.32	24842-14-12
1-5/16x12	1	-16	3.52	24842-16-16

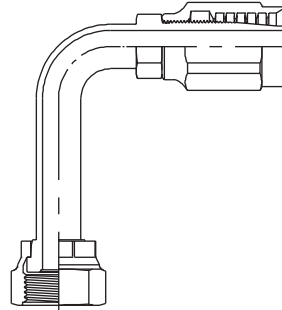
The 24842 fitting allows minor movement under pressure to relieve stress on hose but is not recommended for continuous or extensive swiveling. For continuous swivel under pressure service use S-Series Swivels.

O-Rings not to be used with Phosphate Ester Fluids.

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

Female Seal-Lok Swivel 90° Elbow (Long)

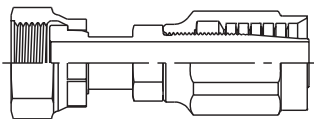
2J142



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.67	2J142-4-4
11/16x16	3/8	-6	1.88	2J142-6-6
13/16x16	1/2	-8	1.94	2J142-8-8
1x14	5/8	-10	2.23	2J142-10-10
1-3/16x12	3/4	-12	2.32	2J142-12-12
1-7/16x12	1	-16	2.66	2J142-16-16

Female Seal-Lok Swivel Straight

2JS42

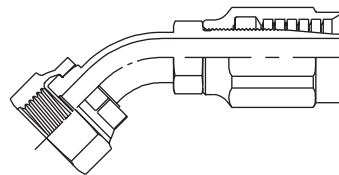


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.70	2JS42-4-4
11/16x16	3/8	-6	1.76	2JS42-6-6
13/16x16	1/2	-6	1.90	2JS42-8-6+
13/16x16	1/2	-8	1.90	2JS42-8-8
1x14	5/8	-10	2.12	2JS42-10-10
1-3/16x12	3/4	-12	2.21	2JS42-12-12
1-7/16x12	1	-16	2.36	2JS42-16-16

+Non-standard.

Female Seal-Lok Swivel 45° Elbow

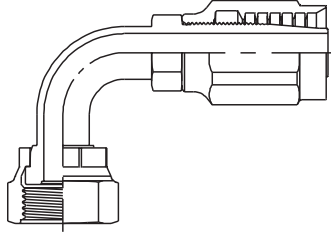
2J742



Tube Thread	Tube Size	Hose Size	Cut-off Allow.	Steel Part No.
9/16x18	1/4	-4	2.00	2J742-4-4
11/16x16	3/8	-6	1.92	2J742-6-6
13/16x16	1/2	-8	2.16	2J742-8-8
1x14	5/8	-10	2.43	2J742-10-10
1-3/16x12	3/4	-12	2.38	2J742-12-12
1-7/16x12	1	-16	3.13	2J742-16-16

**Female Seal-Lok Swivel
90° Elbow (Short)**

2J942



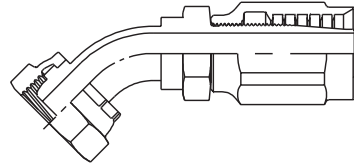
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	Steel Part No.
9/16x18	1/4	-4	1.85	2J942-4-4
11/16x16	3/8	-6	1.78	2J942-6-6
13/16x16	1/2	-6	1.82	2J942-8-6+
13/16x16	1/2	-8	1.85	2J942-8-8
1x14	5/8	-10	2.12	2J942-10-10
1-3/16x12	3/4	-12	2.28	2J942-12-12
1-7/16x12	1	-16	3.07	2J942-16-16

+Non-standard.

**Metric Swivel Female DIN
20078 Light Series - 45°
Elbow**

2C442

Mates with EO "L" Series Fittings

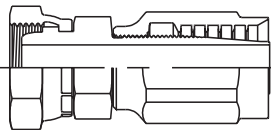


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	47	2C442-6-4
M14x1.5	8	-4	1/4	49	2C442-8-4
M16x1.5	10	-5	5/16	53	2C442-10-5
M16x1.5	10	-6	3/8	56	2C442-10-6
M18x1.5	12	-6	3/8	58	2C442-12-6
M22x1.5	15	-8	1/2	64	2C442-15-8
M26x1.5	18	-10	5/8	72	2C442-18-10
M30x2	22	-12	3/4	79	2C442-22-12
M36x2	28	-16	1	82	2C442-28-16

**Metric Swivel Female
DIN 20078 Light Series**

2C342

Mates with EO "L" Series Fittings

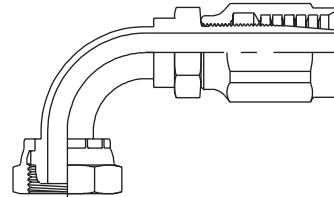


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	36	2C342-6-4
M14x1.5	8	-4	1/4	37	2C342-8-4
M16x1.5	10	-5	5/16	49	2C342-10-5
M16x1.5	10	-6	3/8	44	2C342-10-6
M18x1.5	12	-6	3/8	41	2C342-12-6
M22x1.5	15	-8	1/2	46	2C342-15-8
M26x1.5	18	-10	5/8	50	2C342-18-10
M26x1.5	18	-12	3/4	45	2C342-18-12
M30x2	22	-12	3/4	52	2C342-22-12
M36x2	28	-16	1	66	2C342-28-16

**Metric Swivel Female
DIN 20078 Light Series -
90° Elbow**

2C542

Mates with EO "L" Series Fittings

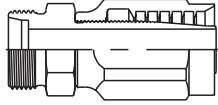


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	40	2C542-6-4
M14x1.5	8	-4	1/4	40	2C542-8-4
M16x1.5	10	-5	5/16	45	2C542-10-5
M16x1.5	10	-6	3/8	47	2C542-10-6
M18x1.5	12	-6	3/8	49	2C542-12-6
M22x1.5	15	-8	1/2	53	2C542-15-8
M26x1.5	18	-10	5/8	67	2C542-18-10
M26x1.5	18	-12	3/4	70	2C542-18-12
M30x2	22	-12	3/4	73	2C542-22-12
M36x2	28	-16	1	75	2C542-28-16

Male Stud DIN 20078 Light Series

2D042

Mates with EO "L" Series Fittings



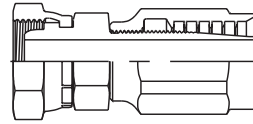
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	28	2D042-6-4
M14x1.5	8	-4	1/4	28	2D042-8-4
M16x1.5	10	-5	5/16	30	2D042-10-5
M16x1.5	10	-6	3/8	30	2D042-10-6
M18x1.5	12	-6	3/8	30	2D042-12-6
M22x1.5	15	-8	1/2	34	2D042-15-8
M26x1.5	18	-10	5/8	39	2D042-18-10
M26x1.5	18	-12	3/4	32	2D042-18-12
M30x2	22	-12	3/4	35	2D042-22-12+
M36x2	28	-16	1	38	2D042-28-16+

+Non-standard.

Metric Swivel Female DIN 20078 Heavy Series

2C642

Mates with EO "S" Series Fittings

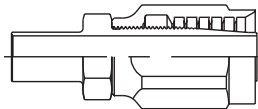


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M16x1.5	8	-4	1/4	40	2C642-8-4
M18x1.5	10	-4	1/4	40	2C642-10-4
M20x1.5	12	-5	5/16	40	2C642-12-5
M20x1.5	12	-6	3/8	41	2C642-12-6
M22x1.5	14	-6	3/8	46	2C642-14-6
M24x1.5	16	-8	1/2	45	2C642-16-8
M30x2	20	-10	5/8	54	2C642-20-10
M30x2	20	-12	3/4	47	2C642-20-12
M36x2	25	-12	3/4	47	2C642-25-12
M42x2	30	-16	1	58	2C642-30-16

Metric Standpipe Light Series

21D42

Mates with EO "L" Series Fittings

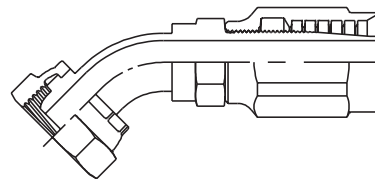


Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
6	-4	1/4	40	21D42-6-4
8	-4	1/4	40	21D42-8-4
10	-5	5/16	42	21D42-10-5
10	-6	3/8	42	21D42-10-6
12	-6	3/8	42	21D42-12-6
15	-8	1/2	48	21D42-15-8
18	-10	5/8	53	21D42-18-10
18	-12	3/4	46	21D42-18-12
22	-12	3/4	48	21D42-22-12
28	-16	1	58	21D42-28-16

Metric Swivel Female DIN 20078 Heavy Series - 45° Elbow

2C742

Mates with EO "S" Series Fittings

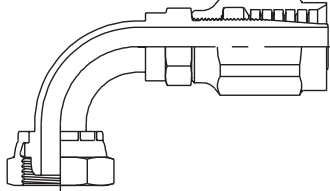


Thread Size	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M18x1.5	10	-4	1/4	50	2C742-10-4
M20x1.5	12	-5	5/16	53	2C742-12-5
M20x1.5	12	-6	3/8	56	2C742-12-6
M22x1.5	14	-6	3/8	60	2C742-14-6
M24x1.5	16	-8	1/2	63	2C742-16-8
M30x2	20	-10	5/8	74	2C742-20-10
M36x2	25	-12	3/4	78	2C742-25-12
M42x2	30	-16	1	80	2C742-30-16

**Metric Swivel Female DIN
20078 Heavy Series - 90°
Elbow**

2C842

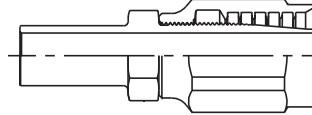
Mates with EO "S" Series Fittings



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M18x1.5	10	-4	1/4	35	2C842-10-4
M20x1.5	12	-6	3/8	47	2C842-12-6
M22x1.5	14	-6	3/8	49	2C842-14-6
M24x1.5	16	-8	1/2	53	2C842-16-8
M30x2	20	-10	5/8	67	2C842-20-10
M30x2	20	-12	3/4	70	2C842-20-12
M36x2	25	-12	3/4	73	2C842-25-12
M42x2	30	-16	1	75	2C842-30-16

**Metric Standpipe Heavy
Series**

23D42



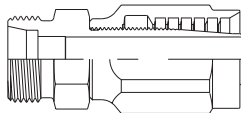
Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
8	-4	1/4	40	21D42-8-4^^^
10	-4	1/4	45	23D42-10-4
12	-5	5/16	46	23D42-12-5
12	-6	3/8	42	21D42-12-6^^^
14	-6	3/8	48	23D42-14-6
16	-8	1/2	52	23D42-16-8
20	-10	5/8	65	23D42-20-10
20	-12	3/4	58	23D42-20-12
25	-12	3/4	65	23D42-25-12
30	-16	1	76	23D42-30-16

^^^Can also be used with EO "L" Series Fittings.

**Male Stud DIN 20078 Heavy
Series**

2D242

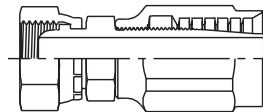
Mates with EO "SL" Series Fittings



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M16x1.5	8	-4	1/4	32	2D242-8-4
M18x1.5	10	-4	1/4	33	2D242-10-4
M20x1.5	12	-5	5/16	34	2D242-12-5
M20x1.5	12	-6	3/8	34	2D242-12-6
M22x1.5	14	-6	3/8	35	2D242-14-6
M24x1.5	16	-8	1/2	40	2D242-16-8
M30x2	20	-10	5/8	47	2D242-20-10
M30x2	20	-12	3/4	40	2D242-20-12
M36x2	25	-12	3/4	44	2D242-25-12
M42x2	30	-16	1	50	2D242-30-16

BSP Swivel Female Ballnose

29242

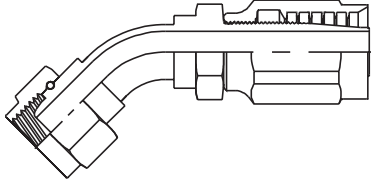


Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.57	29242-4-4
3/8x19	-5	5/16	1.57	29242-6-5+
3/8x19	-6	3/8	1.57	29242-6-6
1/2x14	-8	1/2	2.01	29242-8-8
5/8x14	-10	5/8	1.81	29242-10-8
5/8x14	-10	5/8	1.93	29242-10-10
3/4x14	-12	3/4	1.87	29242-12-12
1x11	-16	1	2.40	29242-16-16

+Non-standard.

**BSP Swivel Female
45° Elbow - Ballnose**

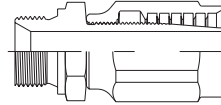
2B142



Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.81	2B142-4-4
3/8x19	-6	3/8	1.93	2B142-6-6
1/2x14	-8	1/2	2.32	2B142-8-8
5/8x14	-10	5/8	2.79	2B142-10-10
3/4x14	-12	3/4	2.36	2B142-12-12
1x11	-16	1	2.99	2B142-16-16

Male BSP Parallel

2D942

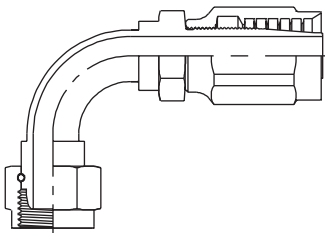


Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.30	2D942-4-4
3/8x19	-6	3/8	1.34	2D942-6-6
3/8x19	-6	3/8	1.34	2D942-6-6C+
1/2x14	-6	3/8	1.59	2D942-8-6+
1/2x14	-8	1/2	1.61	2D942-8-8
3/4x14	-12	3/4	1.61	2D942-12-12
1x11	-16	1	1.93	2D942-16-16

+Non-standard.

**BSP Swivel Female
90° Elbow - Ballnose**

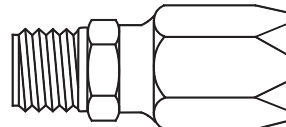
2B242



Thread Size	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
1/4x19	-4	1/4	1.57	2B242-4-4
3/8x19	-6	3/8	1.73	2B242-6-6
1/2x14	-8	1/2	2.09	2B242-8-8
5/8x14	-8	1/2	2.64	2B242-10-8
5/8x14	-10	5/8	2.64	2B242-10-10
3/4x14	-12	3/4	2.52	2B242-12-12
1x11	-16	1	2.91	2B242-16-16

Male Taper Pipe Rigid

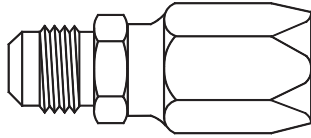
20151



Pipe Thread	Hose I.D.	Cut-Off Allow.	Steel Part No.
1/8-27	3/16	1	20151-2-3
1/4 18	3/16	1 5/32	20151-4-3
1/8-27	1/4	1	20151-2-4
1/4-18	1/4	1 3/16	20151-4-4
1/4-18	5/16	1 11/32	20151-4-5
3/8-18	5/16	1 11/32	20151-6-5
1/4-18	3/8	1 11/32	20151-4-6
3/8-18	3/8	1 11/32	20151-6-6
1/2-14	3/8	1 9/16	20151-8-6
3/8-18	1/2	1 17/32	20151-6-8
1/2-14	1/2	1 23/32	20151-8-8
3/4-14	3/4	1 3/4	20151-12-12
1-11 1/2	1	2 1/4	20151-16-16

Male JIC 37°

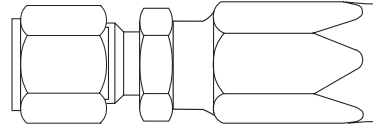
20351



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Steel Part No.
7/16-20	1/4	3/16	1 5/32	20351-4-3
1/2-20	5/16	1/4	1 5/32	20351-5-4
9/16-18	3/8	5/16	1 5/16	20351-6-5
9/16-18	3/8	3/8	1 11/32	20351-6-6
3/4-16	1/2	3/8	1 15/32	20351-8-6
3/4-16	1/2	1/2	1 5/8	20351-8-8

Ferrul-Fix
(Nut and Sleeve Included)

21151

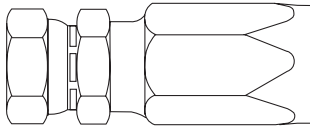


Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Steel Part No.
9/16-18	3/8	3/8	1 1/4	21151-6-6
3/4-16	1/2	1/2	1 1/2	21151-8-8

"Ferrule Fix" affords salvaging of bent tube section of combination tube-hose assemblies and quick, easy repair on the job.

JIC 37° Swivel

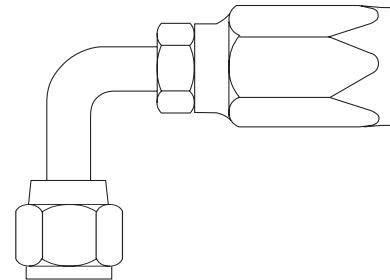
20651



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Steel Part No.
7/16/1920	1/4	3/16	1 1/4	20651-4-3
7/16/1920	1/4	1/4	1 9/32	20651-4-4
1/2/1920	5/16	1/4	1 11/32	20651-5-4
9/16/2018	3/8	1/4	1 7/16	20651-6-4
9/16/2018	3/8	5/16	1 1/2	20651-6-5
9/16/2018	3/8	3/8	1 1/2	20651-6-6
3/4/2016	1/2	3/8	1 5/8	20651-8-6
3/4/2016	1/2	1/2	1 25/32	20651-8-8
7/8/2014	5/8	1/2	1 29/32	20651-10-8
1 5/16-12	1	1	2 13/32	20651-16-16

JIC 37° Swivel 90° Elbow

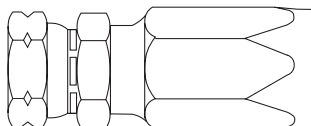
23951



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Steel Part No.
7/16-20	1/4	3/16	1 1/32	23951-4-3
9/16-18	3/8	3/8	1 15/32	23951-6-6
3/4-16	1/2	3/8	1 21/32	23951-8-6

SAE 45° Swivel

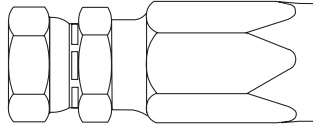
20851



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Steel Part No.
5/8-18	3/8	3/8	1 9/16	20851-6-6

Swivel DIN 20078 Light Series

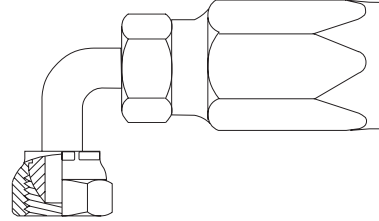
2C351



Metric Thread Size	Hose I.D.	Cut-Off Allow	Part No.
M12x1.5	3/16	24	2C351-6-3
M14x1.5	1/4	25	2C351-8-4
M16x1.5	5/16	22	2C351-10-5
M16x1.5	3/8	35	2C351-10-6
M18x1.5	3/8	34	2C351-12-6
M22x1.5	1/2	41	2C351-15-8
M26x1.5	3/4	37	2C351-18-12
M30x2	3/4	41	2C351-22-12
M36x2	1	52	2C351-28-16

Swivel DIN 20078 Light Series 90° Elbow

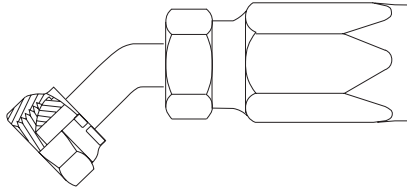
2C551



Metric Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
M12x1.5	3/16	33	2C551-6-3
M14x1.5	1/4	34	2C551-8-4
M16x1.5	5/16	40	2C551-10-5
M16x1.5	3/8	47	2C551-10-6
M18x1.5	3/8	49	2C551-12-6
M22x1.5	1/2	53	2C551-15-8
M26x1.5	3/4	70	2C551-18-12
M30x2	3/4	73	2C551-22-12
M36x2	1	75	2C551-28-16

Swivel DIN 20078 Light Series 45° Elbow

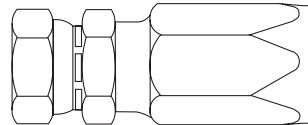
2C451



Metric Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
M12x1.5	3/16	32	2C451-6-3
M14x1.5	1/4	40	2C451-8-4
M16x1.5	5/16	41	2C451-10-5
M16x1.5	3/8	56	2C451-10-6
M18x1.5	3/8	58	2C451-12-6
M22x1.5	1/2	64	2C451-15-8
M26x1.5	3/4	75	2C451-18-12
M30x2	3/4	79	2C451-22-12
M36x2	1	82	2C451-28-16

Swivel DIN 20078 Heavy Series (Without O-Ring)

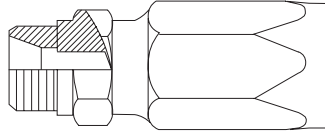
2C651



Metric Thread Size	Hose I.D.	Cut-Off Allow	Part No.
M16x1.5	3/16	28	2C651-8-3
M18x1.5	1/4	36	2C651-10-4
M20x1.5	5/16	35	2C651-12-5
M20x1.5	3/8	36	2C651-12-6
M22x1.5	3/8	37	2C651-14-6
M24x1.5	1/2	40	2C651-16-8
M30x2	3/4	41	2C651-20-12
M36x2	3/4	40	2C651-25-12
M42x2	1	48	2C651-30-16

Stud DIN 20078 Light Series

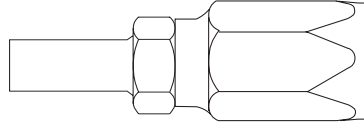
2D051



Metric Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
M12x1.5	3/16	24	2D051-6-3
M14x1.5	1/4	25	2D051-8-4
M16x1.5	5/16	26	2D051-10-5
M16x1.5	3/8	30	2D051-10-6
M18x1.5	3/8	30	2D051-12-6
M22x1.5	1/2	34	2D051-15-8
M26x1.5	3/4	32	2D051-18-12
M30x1.5	3/4	35	2D051-22-12
M36x2	1	38	2D051-28-16

Standpipe Light Series

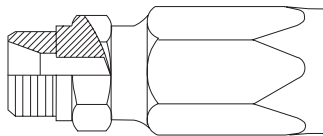
21D51



Hose I.D.	Cut-Off Allow.	Part No.
3/16	35	21D51-6-3
1/4	36	21D51-8-4
5/16	38	21D51-10-5
3/8	42	21D51-10-6
3/8	42	21D51-12-6
1/2	48	21D51-15-8
3/4	46	21D51-18-12
3/4	48	21D51-22-12
1	58	21D51-28-16

Stud DIN 20078 Heavy Series

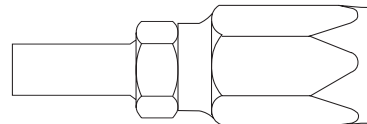
2D251



Metric Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
M16x1.5	3/16	27	2D251-8-3
M18x1.5	1/4	28	2D251-10-4
M20x1.5	5/16	27	2D251-12-5
M20x1.5	3/8	34	2D251-12-6
M22x1.5	3/8	35	2D251-14-6
M24x1.5	1/2	40	2D251-16-8
M30x2	3/4	40	2D251-20-12
M36x2	3/4	44	2D251-25-12
M42x2	1	50	2D251-30-16

Standpipe Heavy Series

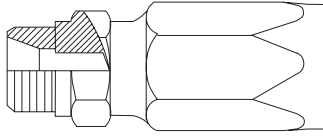
23D51



Hose I.D.	Cut-Off Allow.	Part No.
3/16	36	23D51-8-3
1/4	36	23D51-10-4
5/16	39	23D51-12-5
3/8	46	23D51-12-6
3/8	48	23D51-14-6
1/2	52	23D51-16-8
3/4	58	23D51-20-12
3/4	65	23D51-25-12
1	72	23D51-30-16

BSP Male

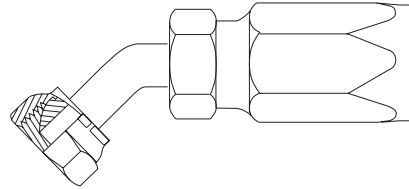
2D951



BSPP Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
1/8	3/16	24	2D951-2-3
1/4	3/16	29	2D951-4-3
1/4	1/4	29	2D951-4-4
3/8	5/16	30	2D951-6-5
3/8	3/8	34	2D951-6-6
1/2	1/2	41	2D951-8-8
3/4	3/4	41	2D951-12-12
1	1	49	2D951-16-16

BSP Swivel Female 45° Elbow

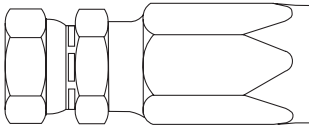
2B151



BSPP Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
1/4	3/16	38	2B151-4-3
1/4	1/4	40	2B151-4-4
3/8	5/16	44	2B151-6-5
3/8	3/8	49	2B151-6-6
1/2	1/2	59	2B151-8-8
3/4	3/4	60	2B151-12-12
1	1	76	2B151-16-16

BSP Swivel

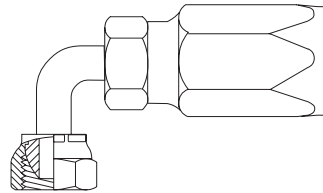
29251



BSPP Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
1/4	3/16	25	29251-4-3
1/4	1/4	28	29251-4-4
3/8	5/16	24	29251-6-5
3/8	3/8	35	29251-6-6
1/2	1/2	41	29251-8-8
5/8	1/2	40	29251-10-8
3/4	3/4	37	29251-12-12
1	1	44	29251-16-16

BSP Swivel 90° Elbow

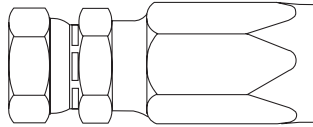
2B251



BSPP Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
1/4	3/16	33	2B251-4-3
1/4	1/4	33	2B251-4-4
3/8	5/16	40	2B251-6-5
3/8	3/8	44	2B251-6-6
1/2	1/2	53	2B251-8-8
3/4	3/4	64	2B251-12-12
1	1	74	2B251-16-16

French Swivel

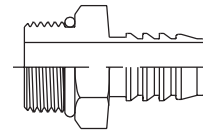
2F951



Metric Thread Size	Hose I.D.	Cut-Off Allow.	Part No.
M12x1	3/16	24	2F951-6-3
M14x1.5	1/4	25	2F951-8-4
M15x1.5	5/16	22	2F951-10-5
M16x1.5	3/8	37	2F951-10-6
M18x1.5	3/8	36	2F951-12-6
M20x1.5	3/8	41	2F951-14-6
M24x1.5	1/2	42	2F951-16-8
M30x1.5	3/4	45	2F951-22-12
M39x1.5	1	50	2F951-30-16

SAE Straight Thread O-Ring

0588

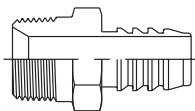


SAE Straight Thread	Hose Size	Cut-Off Allow.	Steel Part No.
1-1/16x12	-12	1.00	0588-12-12
1-1/16x12	-12	1.00	0588-12-12C+
1-1/16x12	-16	1.00	0588-16-16
1-5/16x12	-20	1.00	0588-16-20+
1-5/8x12	-20	1.00	0588-20-20
1-5/8x12	-24	1.00	0588-20-24+
1-7/8x12	-24	1.00	0588-24-24+
2-1/2x12	-32	1.00	0588-32-32+

+Non-standard.

Male Pipe NPTF

0188

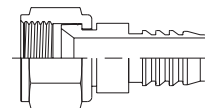


Pipe Thread	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1/2x14	-12	1.13	—	0188-8-12+
3/4x14	-12	1.12	—	0188-12-12
3/4x14	-16	1.18	—	0188-12-16+
1x11-1/2	-16	1.37	0188-16-16B+	0188-16-16
1x11-1/2	-20	1.37	—	0188-16-20+
1-1/4x11-1/2	-16	1.46	—	0188-20-16+
1-1/4x11-1/2	-20	1.47	—	0188-20-20
1-1/4x11-1/2	-24	1.47	—	0188-20-24
1-1/2x11-1/2	-24	1.50	—	0188-24-24
2x11-1/2	-32	1.66	—	0188-32-32
2x11-1/2	-32	1.66	—	0188-32-32C+
2-1/2x8	-40	2.27	—	0188-40-40+
3x8	-48	2.54	—	0188-48-48+

+Non-standard.

Female SAE JIC 37° Swivel

0688

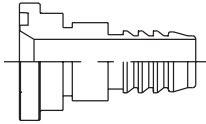


Tube Size	Hose Size	Cut-Off Allow.	Brass Part No.	Steel Part No.
1-1/16x12	-12	1.55	—	0688-12-12
1-1/16x12	-16	1.19	—	0688-12-16+
1-5/16x12	-16	1.32	—	0688-16-16
1-5/16x12	-20	1.34	—	0688-16-20+
1-5/8x12	-20	1.75	—	0688-20-20
1-5/8x12	-20	1.75	—	0688-20-20C+
1-7/8x12	-24	1.93	0688-24-24B+	0688-24-24
1-7/8x12	-24	1.93	—	0688-24-24C+
2-1/2x12	-32	2.17	0688-32-32B+	0688-32-32

+Non-standard.

**SAE (Code 61) Flange Head
Straight**

1588

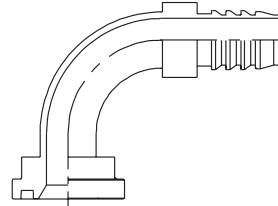


SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
3/4	-12	1.14	1588-12-12+
1	-16	1.18	1588-16-16
1	-20	1.78	1588-16-20+
1-1/4	-16	1.18	1588-20-16+
1-1/4	-20	1.78	1588-20-20
1-1/2	-16	1.24	1588-24-16+
1-1/2	-24	2.04	1588-24-24
2	-24	2.04	1588-32-24+
2	-32	2.49	1588-32-32
2-1/2	-32	2.56	1588-40-32+

Flange kits listed under accessories.
+Non-standard.

**SAE (Code 61) Flange Head
90° Elbow**

1988

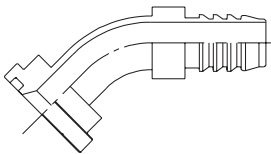


SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
3/4	-12	1.72	1988-12-12+
1	-16	1.96	1988-16-16
1	-20	2.16	1988-16-20+
1-1/4	-20	2.21	1988-20-20
1-1/4	-24	2.46	1988-20-24+
1-1/4	-32	2.22	1988-20-32+
1-1/2	-20	2.20	1988-24-20+
1-1/2	-24	2.46	1988-24-24
1-1/2	-32	2.46	1988-24-32+
2	-24	2.46	1988-32-24+
2	-32	3.03	1988-32-32

Flange kits listed under accessories.
+Non-standard.

**SAE (Code 61) Flange Head
45° Elbow**

1788

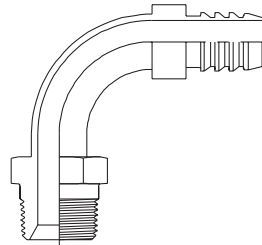


SAE Flange Size	Hose Size	Cut-Off Allow.	Steel Part No.
3/4	-12	2.00	1788-12-12+
1	-16	2.21	1788-16-16
1	-20	2.32	1788-16-20+
1-1/4	-20	2.32	1788-20-20
1-1/4	-24	2.37	1788-20-24+
1-1/2	-24	2.41	1788-24-24
1-1/2	-24	2.38	1788-24-24C+
1-1/2	-32	2.40	1788-24-32+
2	-32	2.75	1788-32-32

Flange kits listed under accessories.
+Non-standard.

Male Pipe 90° Elbow NPTF

2188

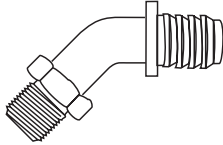


Pipe Thread	Hose Size	Cut-Off Allow.	Steel Part No.
3/4x14	-12	1.72	2188-12-12
1x11-1/2	-16	1.97	2188-16-16
1x11-1/2	-16	2.27	2188-16-16C+
1x11-1/2	-20	2.21	2188-16-20+
1-1/4x11-1/2	-20	2.22	2188-20-20
1-1/4x11-1/2	-20	2.22	2188-20-20C+
1-1/4x11-1/2	-24	2.21	2188-20-24+
1-1/2x11-1/2	-24	2.46	2188-24-24
2x11-1/2	-32	3.03	2188-32-32

+Non-standard.

Male Pipe Elbow 45° NPTF

3188



Pipe Thread	Hose Size	Cut-Off Allow.	Steel Part No.
3/4x12	-12	2.40	3188-12-12+
1x11-1/2	-16	2.74	3188-16-16
1x11-1/2	-20	2.88	3188-16-20+
1-1/4x11-1/2	-20	2.95	3188-20-20
1-1/4x11-1/2	-24	3.01	3188-20-24+
1-1/2x11-1/2	-24	3.03	3188-24-24+
2x11-1/2	-32	3.48	3188-32-32+

+Non-standard.

Hose Splicer

8888

Hose Size	Part No.
-12	8888-12-12
-16	8888-16-16
-20	8888-20-20
-20	8888-20-20C+
-24	8888-24-24
-32	8888-32-32

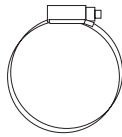


+Non-standard.

Low Pressure Hose Clamp

88HC

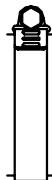
Hose Size	Part No.
-12	88HC-12
-16	88HC-16
-20	88HC-20
-24	88HC-24
-32	88HC-32



Heavy Duty Hose Clamp

88HC-H

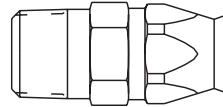
Hose Size	Part No.
-12	88HC-12H
-16	88HC-16H
-20	88HC-20H
-24	88HC-24H+
-32	88HC-32H+
-40	88HC-40H
-48	88HC-48H



+Non-standard.

Male Pipe

20190

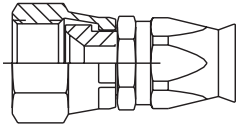


NPTF Thread Size	Hose Size	Cut-Off Allow.	**Stainless Steel Part No.	*Part No.
1/8-27	-4	29/32	20190-2-4C	20190-2-4
1/4-18	-4	1 1/16	20190-4-4C	20190-4-4
1/4-18	-5	1 1/8	20190-4-5C	20190-4-5
1/4-18	-6	1 1/8	—	20190-4-6
3/8-18	-6	1 1/8	20190-6-6C	20190-6-6
3/8-18	-8	1 5/32	—	20190-6-8
1/2-14	-8	1 15/32	20190-8-8C	20190-8-8
1/2-14	-10	1 7/16	—	20190-8-10
3/4-14	-12	1 19/32	—	20190-12-12
3/4-14	-16	1 21/32	20190-12-16C	20190-12-16
1-11 1/2	-16	1 27/32	—	20190-16-16
1 1/4-11 1/2	-20	2 3/16	—	20190-20-20

*Brass nipple, ferrule, steel socket.

**300 series stainless nipple, socket and ferrule.

Female SAE JIC 37° Swivel
20690

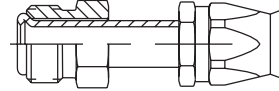


Thread Size	Hose Size	Cut-Off Allow.	**Stainless Steel Part No.	*Part No.
7/16-20	-4	1 1/8	20690-4-4C	20690-4-4
1/2-20	-5	1 3/32	20690-5-5C	20690-5-5
9/16-18	-6	1 1/4	20690-6-6C	20690-6-6
3/4-16	-6	1 11/32	—	20690-8-6
3/4-16	-8	1/3/8	20690-8-8C	20690-8-8
7/8-14	-10	1 9/16	20690-10-10C	20690-10-10
1 1/16-12	-12	1 11/16	20690-12-12C	20690-12-12
1 5/16-12	-16	1 15/16	20690-16-16C	20690-16-16
1 5/8-12	-20	2 5/16	20690-20-20C	20690-20-20

*Brass nipple, ferrule, steel socket.

**300 series stainless nipple, socket and ferrule.

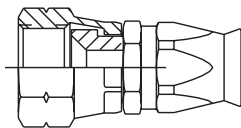
SAE Male Inverted Swivel-Straight
22890



Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
7/16-24	1/4	-4	1 21/32	22890-4-4
1/2-20	5/16	-5	1 11/16	22890-5-5
1/2-20	5/16	-6	1 11/16	22890-5-6
5/8-18	3/8	-6	1 23/32	22890-6-6
3/4-18	1/2	-8	1 23/32	22890-8-8
7/8-18	5/8	-10	2 1/8	22890-10-10
1 1/16-16	3/4	-12	2 3/8	22890-12-12

*Steel nipple, tube, nut & socket, Brass ferrule.

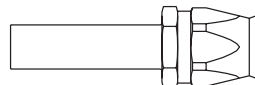
Female SAE 45° Swivel
20890



Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
5/8-18	3/8	-6	1 9/32	20890-6-6
1 1/16-14	3/4	-12	1 11/16	20890-12-12

*Brass nipple, ferrule, steel nut, socket.

Straight Tube
23490

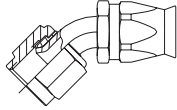


Tube Size	Hose Size	Cut-Off Allow.	*Part No.
1/2	-8	2 15/32	23490-8-8
1/2	-10	2 1/2	23490-8-10
5/8	-10	2 21/32	23490-10-10
3/4	-12	3 1/16	23490-12-12

*Brass nipple, ferrule, steel socket. Use with HAB nut and sleeve.

Female SAE JIC 37° Swivel
45° Elbow

23790

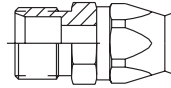


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
7/16-20	1/4	-4	1 1/16	23790-4-4
1/2-20	5/16	-5	1 1/8	23790-5-5
9/16-18	3/8	-6	1 3/16	23790-6-6
3/4-16	1/2	-6	1 19/32	23790-8-6
3/4-16	1/2	-8	1 5/8	23790-8-8
7/8-14	5/8	-10	1 25/32	23790-10-10
1 1/16-12	3/4	-12	2 7/32	23790-12-12
1 5/16-12	1	-16	2 1/2	23790-16-16
1 5/8-12	1 1/4	-20	2 31/32	23790-20-20

*Steel nipple, tube, nut & socket, Brass ferrule.

SAE Compression Air Brake

26190

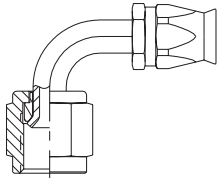


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
11/16-20	1/2	-8	1 1/16	26190-8-8
11/16-20	1/2	-10	1 5/32	26190-8-10
13/16-18	5/8	-10	1 15/16	26190-10-10
1-18	3/4	-10	1 5/16	26190-12-10
1-18	3/4	-12	1 13/32	26190-12-12

*Brass nipple and ferrule, Steel nut and socket. Use with HAB nut and sleeve.

Female SAE JIC 37° Swivel
90° Elbow

23990

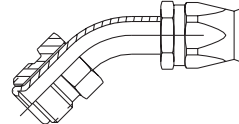


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
7/16-20	1/4	-4	15/16	23990-4-4
1/2-20	5/16	-5	1 1/32	23990-5-5
9/16-18	3/8	-6	1 3/32	23990-6-6
3/4-16	1/2	-6	1 1/4	23990-8-6
3/4-16	1/2	-8	1 13/32	23990-8-8
7/8-14	5/8	-10	1 1/2	23990-10-10
1 1/16-12	3/4	-12	2 3/16	23990-12-12
1 5/16-12	1	-16	2 1/2	23990-16-16

*Steel nipple, tube, nut and socket, Brass ferrule.

SAE Male Inverted Swivel
45° Elbow

26790

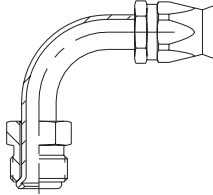


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
7/16-24	1/4	-4	2	26790-4-4
7/16-24	1/4	-5	2	26790-4-5
1/2-20	5/16	-5	1 15/16	26790-5-5
1/2-20	5/16	-6	1 31/32	26790-5-6
5/8-18	3/8	-6	1 31/32	26790-6-6
3/4-18	1/2	-8	2 1/16	26790-8-8
3/4-18	1/2	-10	2 1/8	26790-8-10
7/8-18	5/8	-10	2 9/32	26790-10-10
1 1/16-16	3/4	-12	2 15/32	26790-12-12

*Steel nipple, tube, nut and socket, Brass ferrule.

**SAE Male Inverted Swivel
90° Elbow**

26990

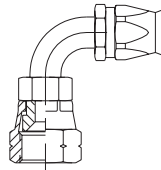


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
7/16-24	1/4	-4	1 9/16	26990-4-4
7/16-24	1/4	-5	1 5/8	26990-4-5
1/2-20	5/16	-5	1 19/32	26990-5-5
1/2-20	5/16	-6	1 19/32	26990-5-6
5/8-18	3/8	-6	1 19/32	26990-6-6
3/4-18	1/2	-8	1 11/16	26990-8-8
3/4-18	1/2	-10	1 3/4	26990-8-10
7/8-18	5/8	-10	2	26990-10-10
1 1/16-16	3/4	-12	2 3/16	26990-12-12

*Steel nipple, tube, nut and socket, Brass ferrule.

**Female SAE 45° Swivel 90°
Elbow**

27990



Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
5/8-18	3/8	-6	1 1/16	27990-6-6
1 1/16-14	3/4	-12	2 3/16	27990-12-12

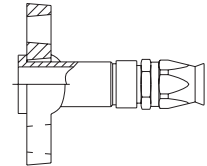
Notch in nut for SAE identification.

*Steel nipple, tube, nut and socket, Brass ferrule.

Laundry Flange Fitting

2LF90

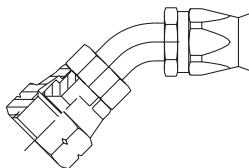
Flange Size (inches)	Hose Size	Cut-Off Allow.	*Part No.
3/8	-6	1 1/4	2LF90-6-6
3/4	-12	1 7/16	2LF90-12-12



*Brass nipple and ferrule, Steel flange and socket.

**Female SAE 45° Swivel 45°
Elbow**

27790



Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Part No.
5/8-18	3/8	-6	1 3/16	27790-6-6
1 1/16-14	3/4	-12	2 7/32	27790-12-12

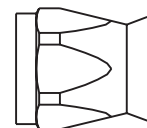
Notch in nut for SAE identification.

*Steel tube, nut and socket, Brass ferrule.

**Replacement Socket for
Reusable Fittings**

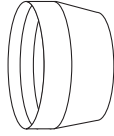
20090

Hex Size	Steel Socket Part No.	Stainless Steel Socket Part No.
9/16	20090-4	20090-4C
5/8	20090-5	20090-5C
11/16	20090-6	20090-6C
7/8	20090-8	20090-8C
1	20090-10	20090-10C
1 1/8	20090-12	20090-12C
1 3/8	20090-16	20090-16C
1 3/4	20090-20	20090-20C



Replacement Ferrule for
90 Series Reusable Fittings

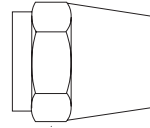
090



Hose Size	Brass Ferrule Part No.	Stainless Steel Ferrule Part No.
-4	090-4B	090-4C
-5	090-5B	090-5C
-6	090-6B	090-6C
-8	090-8B	090-8C
-10	090-10B	090-10C
-12	090-12B	090-12C
-16	090-16B	090-16C
-20	090-20B	090-20C

SAE Compression Airbrake
Nut

61 HAB



Thread	Tube Size	*Part No.
7/16-24	1/4	61HAB-4
7/32-24	3/8	61HAB-6
11/16-20	1/2	61HAB-8
13/16-18	5/8	61HAB-10
1-18	3/4	61HAB-12

*61 HAB nut is used with 23490, 26190, 13491, and 16191 fittings.

SAE Compression Airbrake
Sleeve

60 HAB

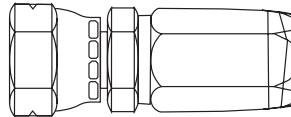
Tube Size	L	*Part No.
1/4	.250	60HAB-4
3/8	.313	60HAB-6
1/2	.375	60HAB-8
5/8	.438	60HAB-10
3/4	.500	60HAB-12



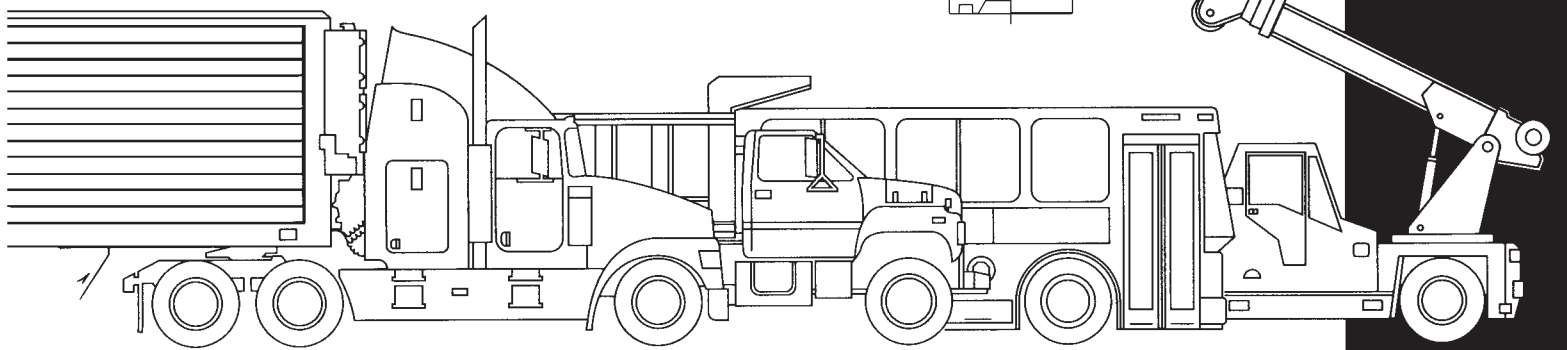
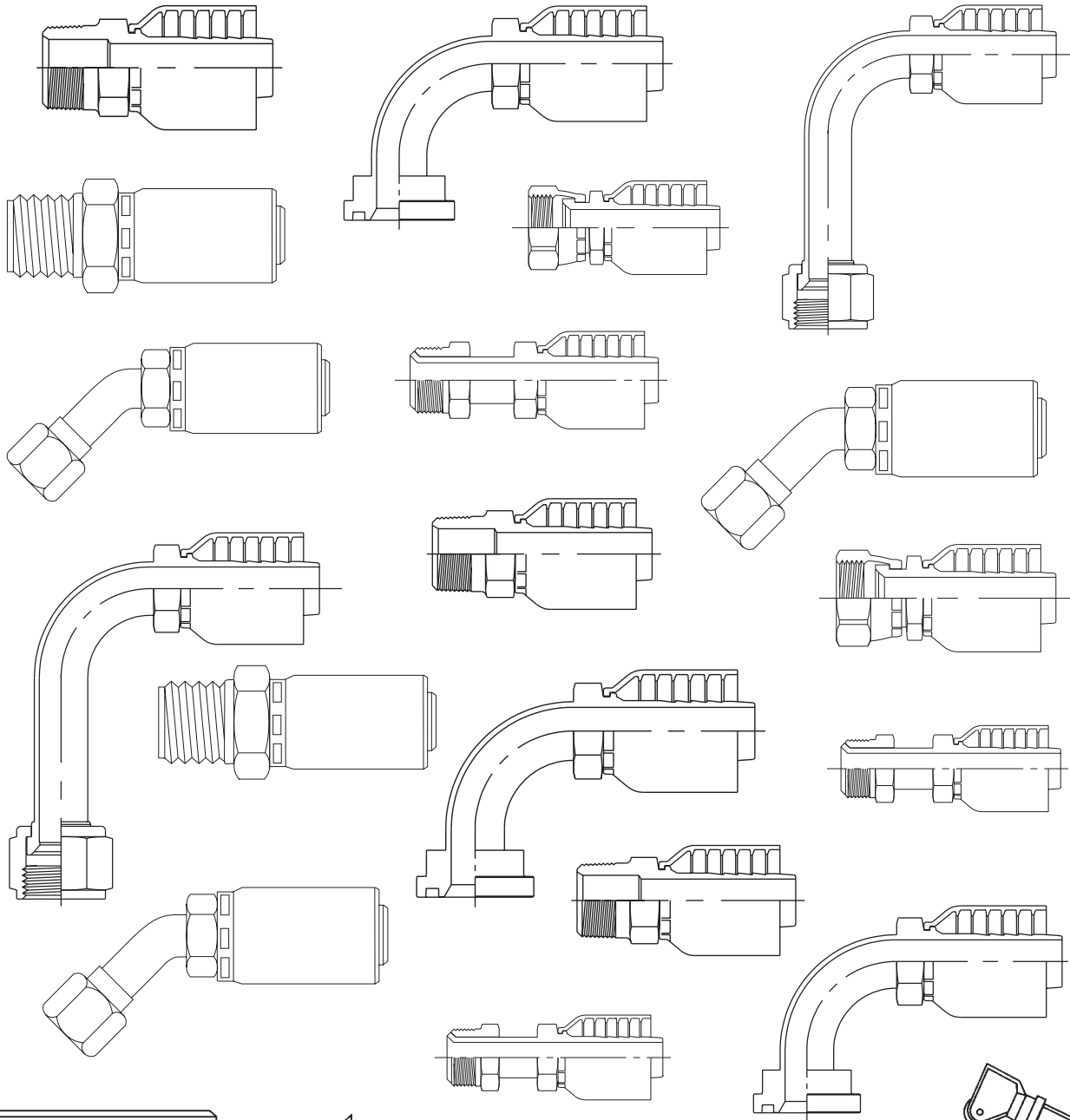
*60HAB nut is used with 23490, 26190, 13491, and 16191 fittings.

Female SAE 45° Swivel
(Brass)

208MS




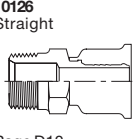

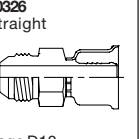

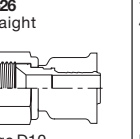
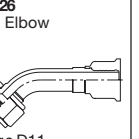
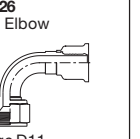


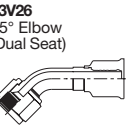
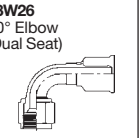
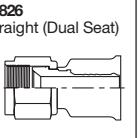

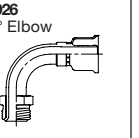

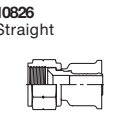

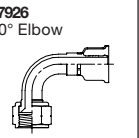
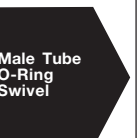
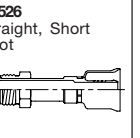
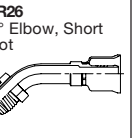
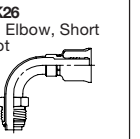

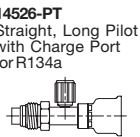
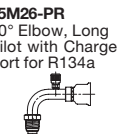
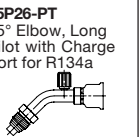
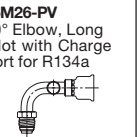


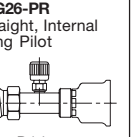

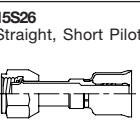

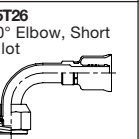
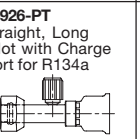
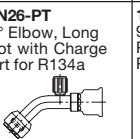
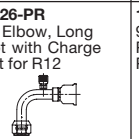
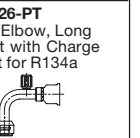
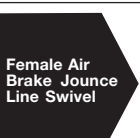
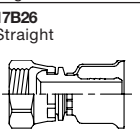

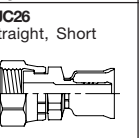
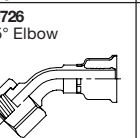
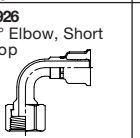

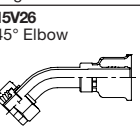
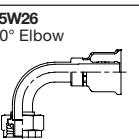
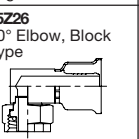

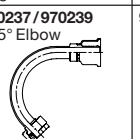
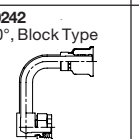
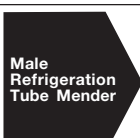
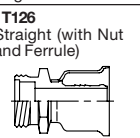


Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Part No.
5/8-18	3/8	5/16	1	208MS-6-5B
5/8-18	3/8	3/8	1	208MS-6-6B




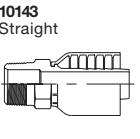
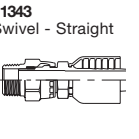

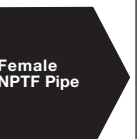
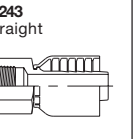
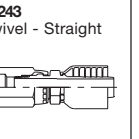
General Description		pg. D2*
	*See page 32 of the introductory section for "How to Order" information	
Visual Index		pg. D3
26 Series	For use with 201, 206, 213, 235, 261, 266, 285 and 293 Hose.	pg. D10
43 Series	For use with 421, 421HT, 421WC, 431, 436, 481, 301, 341, 381, 601, 811 and 881 Hose.	pg. D19
55 Series	For use with GPH, 518C, 520N, 540N, 55LT, 550H ¹ , 560 ² , 590 ³ , 1035A Hose. ¹ All sizes except -10 ² All sizes except -12 ³ All sizes except -10, -12, and -16	pg. D41
58 Series	For use with PSH, 550H ¹ , 560 ² , 580N, 588N, 590 ³ Hose. ¹ Size -10 only ² Size -12 only ³ Sizes -10, -12, -16 only	pg. D51
71 Series	For use with 77C and 772 Hose.	pg. D57
78 Series	For use with 78C Hose.	pg. D69
79 Series	For use with 792 Hose.	pg. D78
91N Series	For use with 919 Hose. SAE 100R14 TFE Hose.	pg. D80
HY Series	For use with AX and BXX Hose.	pg. D83
MS Series	For use with MSH Marine Steering Hose.	pg. D96
Safety Guide		pg. D97

Note: Please refer to Catalogs 4400 and 4660 for further information.


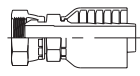

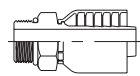
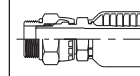


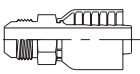

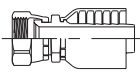
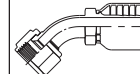




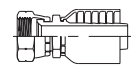
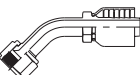
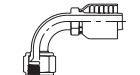

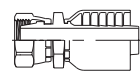

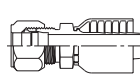

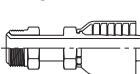
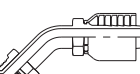
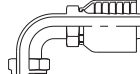



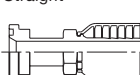
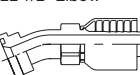




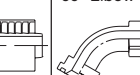

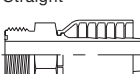




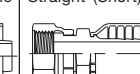

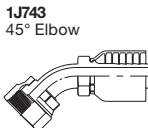
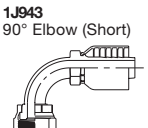
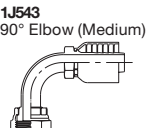


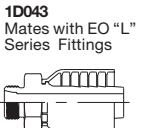

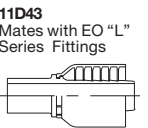

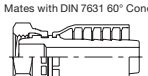
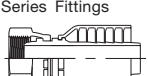
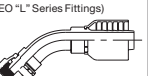
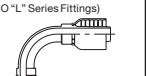
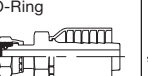
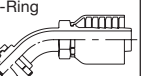
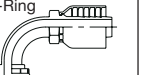

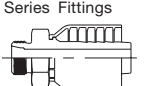

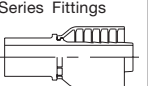

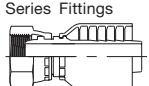

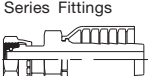
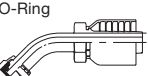
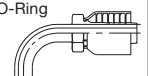


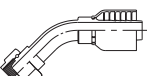
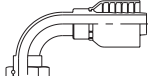
Permanent Hose Fittings-26 Series

 Male NPTF Pipe Page D10	 10126 Straight Page D10	 Male JIC 37° Rigid Page D10	 10326 Straight Page D10	 Female JIC 37° Swivel Page D10	 10626 Straight Page D10	 13726 45° Elbow Page D11	 13926 90° Elbow Page D11
 14126 90° Elbow, Long Drop Page D11	 Female JIC 37°/SAE 45° Swivel Page D11	 13V26 45° Elbow (Dual Seat) Page D11	 13W26 90° Elbow (Dual Seat) Page D12	 16826 Straight (Dual Seat) Page D12	 Male Inverted 45° Swivel Page D12	 16926 90° Elbow Page D12	
 Female SAE 45° Swivel Page D10	 10826 Straight Page D10	 17726 45° Elbow Page D12	 17926 90° Elbow Page D12	 Male Tube O-Ring Swivel Page D13	 1S526 Straight, Short Pilot Page D13	 15R26 45° Elbow, Short Pilot Page D13	 15K26 90° Elbow, Short Pilot Page D13
 15K26-PR 90° Elbow, Short Pilot with Charge Port for R12 Page D13	 14526-PT Straight, Long Pilot with Charge Port for R134a Page D13	 15M26-PR 90° Elbow, Long Pilot with Charge Port for R134a Page D14	 15P26-PT 45° Elbow, Long Pilot with Charge Port for R134a Page D16	 15M26-PV 90° Elbow, Long Pilot with Charge Port for R134a Page D16	 Male Tube O-Ring Rigid Page D14	 15G26 Straight, Internal Long Pilot Page D14	 15G26-PR Straight, Internal Long Pilot Page D14
 Female Tube O-Ring Swivel Page D14	 15S26 Straight, Short Pilot Page D14	 15H26 45° Elbow, Short Pilot Page D15	 15T26 90° Elbow, Short Pilot Page D15	 15926-PT Straight, Long Pilot with Charge Port for R134a Page D15	 15N26-PT 45° Elbow, Long Pilot with Charge Port for R134a Page D15	 15L26-PR 90° Elbow, Long Pilot with Charge Port for R12 Page D16	 15L26-PT 90° Elbow, Long Pilot with Charge Port for R134a Page D16
 Female Air Brake Jounce Line Swivel Page D17	 17B26 Straight Page D17	 Female Seal-Lok Swivel Page D16	 1JC26 Straight, Short Page D16	 1J726 45° Elbow Page D17	 1J926 90° Elbow, Short Drop Page D17		
 Female Compressor Swivel Page D17	 15V26 45° Elbow Page D17	 15W26 90° Elbow Page D17	 15Z26 90° Elbow, Block Type Page D18	 Compressor Fitting Page D18	 970237/970239 135° Elbow Page D18	 970242 180° Block Type Page D18	
 Male Refrigeration Tube Mender Page D18	 1T126 Straight (with Nut and Ferrule) Page D18	 O-Rings Page D18	 771513 O-Ring Page D18				

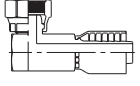
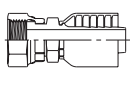

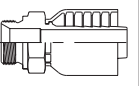
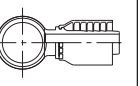
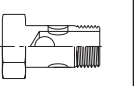

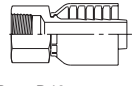
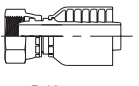

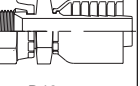
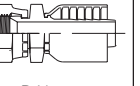
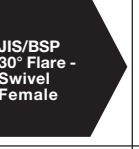
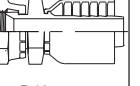

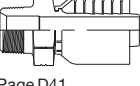
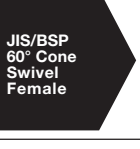
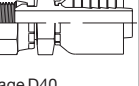
Permanent Hose Fittings-43 Series

 Male Pipe NPTF Page D19	 10143 Straight Page D19	 11343 Swivel - Straight Page D23	 11L43 90° Elbow - Swivel Page D22	 Female NPTF Pipe Page D19	 10243 Straight Page D19	 1S243 Swivel - Straight Page D21	
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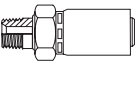
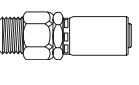
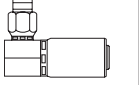
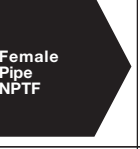
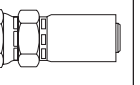
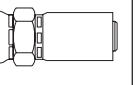

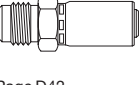
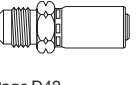


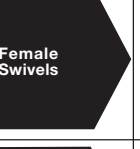
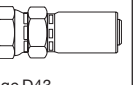
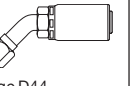
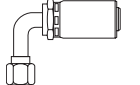
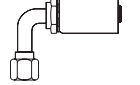
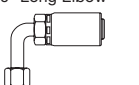
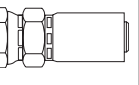
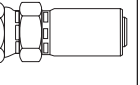

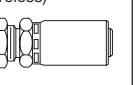

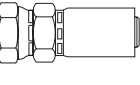

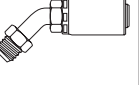
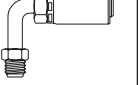

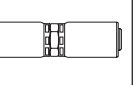

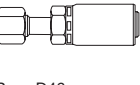

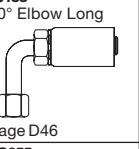
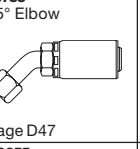
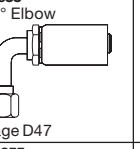

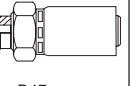
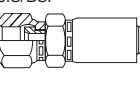
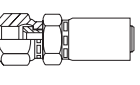
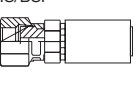
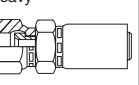
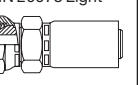
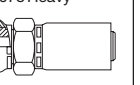
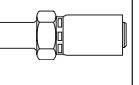
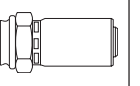
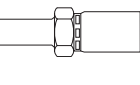
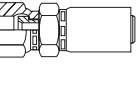
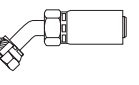
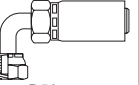
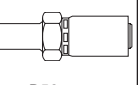
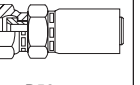
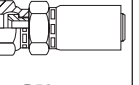
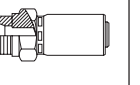
Permanent Hose Fittings - 43 Series (Continued)


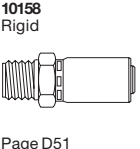
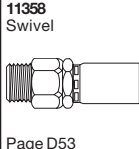

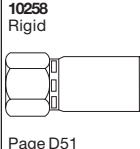
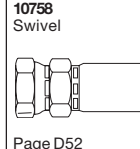

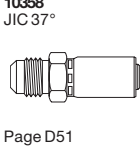
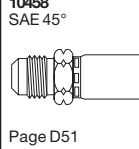

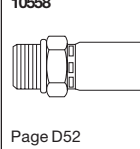

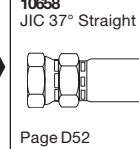
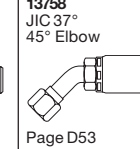
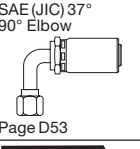
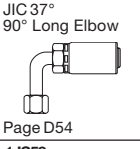
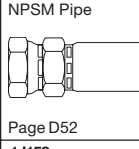
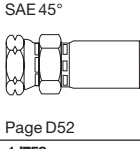
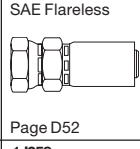
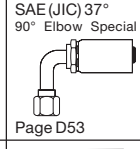

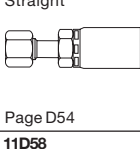
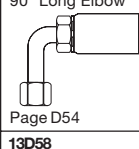
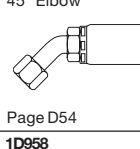
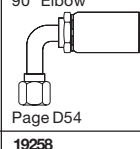
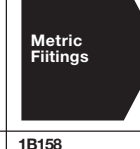
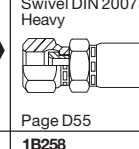
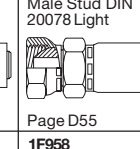
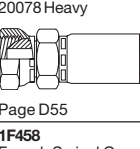
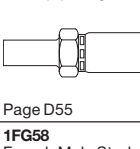
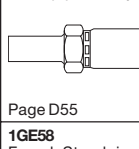
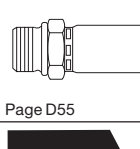
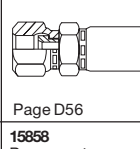
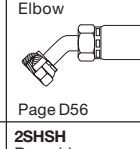
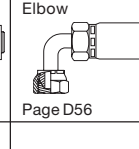
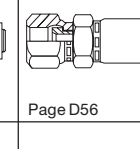
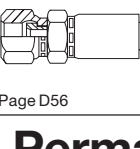
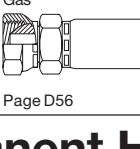
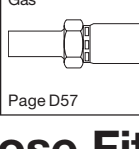

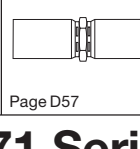
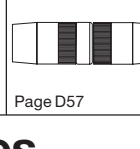

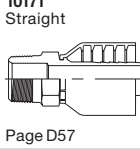

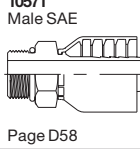

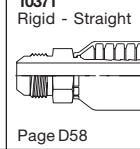

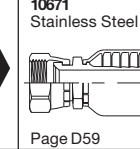
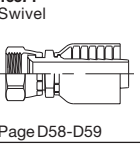
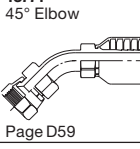
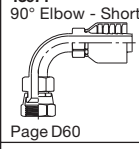
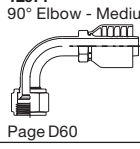
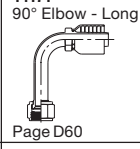
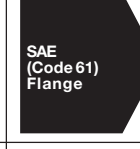
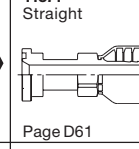
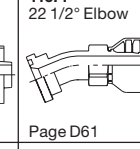
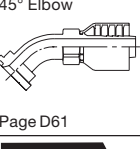
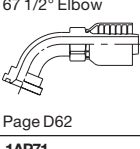
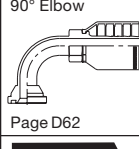
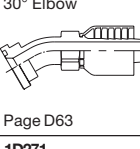
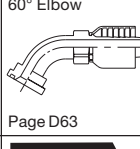
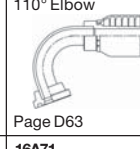
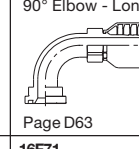
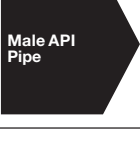
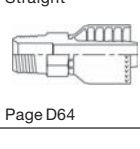

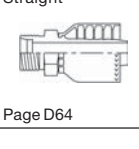

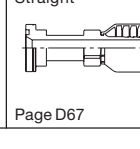
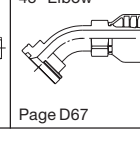
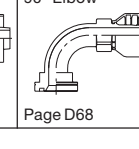
 Female NPSM Pipe Swivel	10743 Straight  Page D21	 Straight Thread O-Ring	10543 Straight  Page D20	10G43 Swivel - Straight  Page D22	10L43 90° Elbow - Swivel  Page D22		
 Male JIC 37°	10343 Straight  Page D20	 JIC 37° Swivel	10643 Straight  Page D21	13743 45° Elbow  Page D27	13943 90° Elbow (Short)  Page D28	11943 90° Elbow (Medium)  Page D27	14143 90° Elbow (Long)  Page D28
 SAE 45° Swivel	10843 Straight  Page D22	17743 45° Elbow  Page D30	17943 90° Elbow  Page D30	 SAE Flareless Swivel	11243 Straight  Page D23	 "Ferrul-Fix" SAE Flareless	11143 Rigid - Straight  Page D23
 SAE Male Inverted Swivel	12843 Straight  Page D26	16743 45° Elbow  Page D29	16943 90° Elbow  Page D29	 Male "Hydra-Clip"	1S043 Straight  Page D30		
 SAE (Code 61) Flange	11543 Straight  Page D24	11643 22 1/2° Elbow  Page D24	11743 45° Elbow  Page D24	11843 67 1/2° Elbow  Page D25	11943 90° Elbow  Page D25	12643 30° Elbow  Page D26	12743 60° Elbow  Page D26
 Male Seal-Lok®	1JM43 Straight  Page D33	1JB43 Straight Bulkhead without Nitrile O-ring  Page D32	 Female Seal-Lok® Swivel	1JS43 Straight  Page D34	1J043 Straight with Nitrile O-ring  Page D33	1JC43 Straight (Short)  Page D33	1J643 22 1/2° Elbow  Page D31
1J743 45° Elbow  Page D31	1J943 90° Elbow (Short)  Page D32	1J543 90° Elbow (Medium)  Page D31	1J143 90° Elbow (Long)  Page D30	 Male Stud DIN 20078 Light Series	1D043 Mates with EO "L" Series Fittings  Page D39	 Metric Standpipe Light Series	11D43 Mates with EO "L" Series Fittings  Page D39
 Metric Swivel Female DIN 20078 Light Series	1C043 Straight Ball Nose Mates with DIN 7631 60° Cone  Page D35	1C343 Mates with EO "L" Series Fittings  Page D36	1C443 45° Elbow (Mates with EO "L" Series Fittings)  Page D36	1C543 90° Elbow (Mates with EO "L" Series Fittings)  Page D36	1CA43 Straight With O-Ring  Page D37	1CE43 45° Elbow With O-Ring  Page D38	1CF43 90° Elbow With O-Ring  Page D38
 Male Stud DIN 20078 Heavy Series	1D243 Mates with EO "S" Series Fittings  Page D39	 Metric Standpipe Heavy Series	13D43 Mates with EO "S" Series Fittings  Page D38	 Metric Swivel Female DIN 20078 Heavy Series	1C643 Mates with EO "S" Series Fittings  Page D37		
 Metric Swivel DIN 20078 Heavy Series With O-Ring	1C943 Mates with EO "S" Series Fittings  Page D37	10C43 45° Elbow with O-Ring  Page D37	11C43 90° Elbow with O-Ring  Page D38	 BSP Swivel Female Ballnose	19243 Straight  Page D35	1B143 45° Elbow  Page D34	1B243 90° Elbow  Page D34


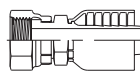
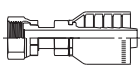
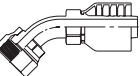
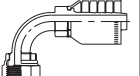
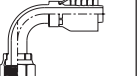


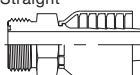

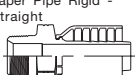
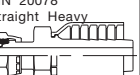
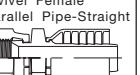
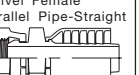
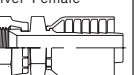
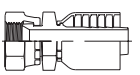
Permanent Hose Fittings - 43 Series (Continued)


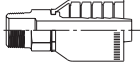

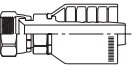
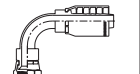



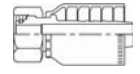
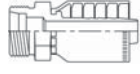

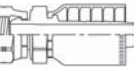

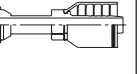
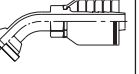
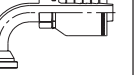

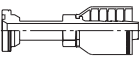
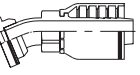
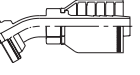
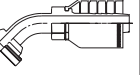
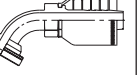
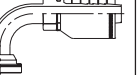

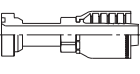
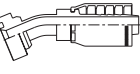
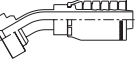
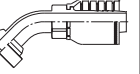
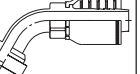
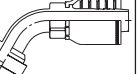
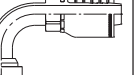


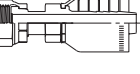
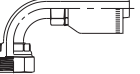
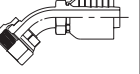
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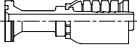
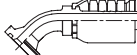


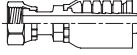



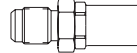





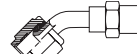
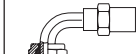



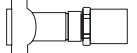
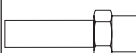

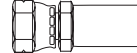
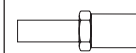
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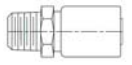

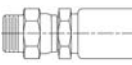
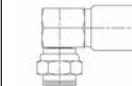



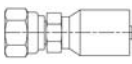

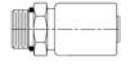



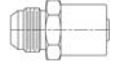

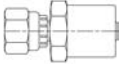
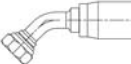


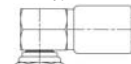


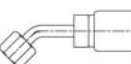
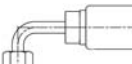




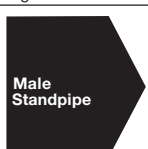
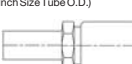


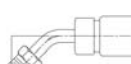
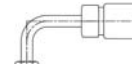









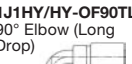

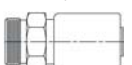

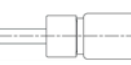





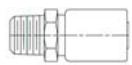


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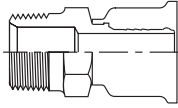
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 <p>Female Inverted SAE 45°</p>	<p>129HY/HY-NG Rigid - Straight</p>  <p>Page D91</p>	 <p>Male Seal-Lok®</p>	<p>1J0HY/HY-OM Rigid - Straight with O-Ring</p>  <p>Page D92</p>	 <p>Female Seal-Lok® Swivel</p>	<p>1JCHY/HY-OF Straight (Short)</p>  <p>Page D92</p>	<p>1JSHY/HY-OFT Straight (Long)</p>  <p>Page D92</p>	<p>1J7HY/HY-OF45T 45° Elbow</p>  <p>Page D93</p>
<p>1J9HY/HY-OF90T 90° Elbow</p>  <p>Page D93</p>	<p>1J1HY/HY-OF90TL 90° Elbow (Long Drop)</p>  <p>Page D94</p>	 <p>Male Metric L</p>	<p>1D0HY/HY-MZ Rigid - Straight (24° Cone)</p>  <p>Page D94</p>	 <p>Male Standpipe Metric S</p>	<p>13DHY/HY-RZT Rigid - Straight</p>  <p>Page D94</p>	 <p>Male BSP Parallel Pipe</p>	<p>1D9HY/HY-BP Rigid - Straight (24° Cone)</p>  <p>Page D95</p>
 <p>Female BSP Parallel Pipe Swivel</p>	<p>1GUHY/HY-BPF Straight (60° Flare)</p>  <p>Page D95</p>	 <p>Male BSP Taper Pipe</p>	<p>1UTHY/HY-BT Rigid - Straight</p>  <p>Page D95</p>	 <p>Female Metric Swivel</p>	<p>1XUHY/HY-KMF Straight (30° Flare)</p>  <p>Page D95</p>		

Male NPTF Pipe - Straight

10126

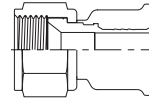


Thread Size	Tube Size	Hose Size	Cut-off Allow.	Part Number
1/8x27	3/16	-4	0.78	10126-2-4
1/4x18	3/16	-4	1.01	10126-4-4
1/4x18	1/4	-5	1.01	10126-4-5
1/4x18	5/16	-6	1.02	10126-4-6
3/8x18	5/16	-6	1.03	10126-6-6
3/8x18	13/32	-8	1.03	10126-6-8
1/2x14	13/32	-8	1.28	10126-8-8
1/2x14	1/2	-10	1.30	10126-8-10
3/4x14	5/8	-12	1.37	10126-12-12
1x11-1/2	7/8	-16	1.57	10126-16-16
1-1/4x11-1/2	1-1/8	-20	1.77	10126-20-20
1-1/2x11-1/2	1-3/8	-24	1.93	10126-24-24
1-1/2x11-1/2	1-13/16	-32	2.15	10126-24-32+
2x11-1/2	1-13/16	-32	2.18	10126-32-32

+Non-standard.

Female JIC 37° Swivel - Straight

10626

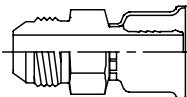


Thread Size	Tube Size	Hose Size	Cut-off Allow.	Part Number
9/16x18	3/8	5/16	0.92	10626-6-6
9/16x18	3/8	5/16	0.92	10626-6-6BS
9/16x18	3/8	13/32	1.19	10626-6-8
1-1/16x12	3/4	5/8	1.35	10626-12-12
1-1/16x12	3/4	5/8	1.35	10626-12-12BS
1-5/16x12	1	7/8	1.49	10626-16-16
1-5/16x12	1	7/8	1.49	10626-16-16BS
1-5/8x12	1-1/4	1-1/8	1.50	10626-20-20
1-7/8x12	1-1/2	1-3/8	1.69	10626-24-24
1-7/8x12	1-1/2	1-13/16	2.47	10626-24-32+
2-1/2x12	2	1-13/16	2.04	10626-32-32

+Non-standard.

Male JIC 37° Rigid - Straight

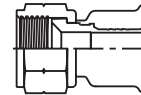
10326



Thread Size	Tube Size	Hose Size	Cut-off Allow.	Part Number
7/16x20	3/16	-4	1.15	10326-4-4
9/16x18	5/16	-6	1.26	10326-6-6
3/4x16	13/32	-8	1.08	10326-8-8
7/8x14	1/2	-10	1.54	10326-10-10
1-5/16x12	7/8	-16	1.75	10326-16-16

Female SAE 45° Swivel - Straight

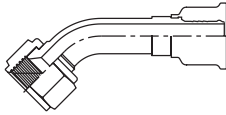
10826



Thread Size	Tube Size	Hose Size	Cut-off Allow.	Part Number
5/8x18	3/8	-6	0.98	10826-6-6
5/8x18	3/8	-6	0.98	10826-6-6BA
1-1/16x14	3/4	-8	1.47	10826-12-8+
1-1/16x14	3/4	-12	1.25	10826-12-12

Female JIC 37° Swivel - 45° Elbow

13726

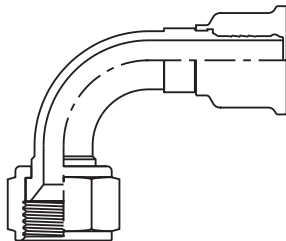


Thread Size	Tube Size	Hose Size	Cut-off Allow.	Part Number
9/16x18	3/8	-6	1.59	13726-6-6
1-1/16x12	3/4	-12	2.08	13726-12-12
1-5/16x12	1	-16	2.30	13726-16-16+
1-5/8x12	1-1/4	-20	2.68	13726-20-20+
1-7/8x12	1-1/2	-24	2.84	13726-24-24+

+Non-standard.

Female JIC 37° Swivel - 90° Elbow

13926

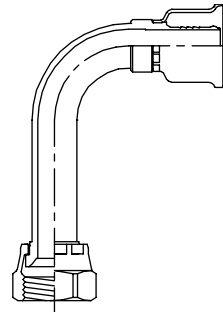


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part Number
9/16x18	3/8	-6	1.12	13926-6-6
1-1/16x12	3/4	-12	1.99	13926-12-12
1-5/16x12	1	-16	2.26	13926-16-16+
1-5/8x12	1-1/4	-20	2.54	13926-20-20+
1-7/8x12	1-1/2	-24	2.84	13926-24-24+
2-1/2x12	2	-32	3.57	13926-32-32+

+Non-standard.

Female JIC 37° Swivel - 90° Elbow, Long Drop

14126

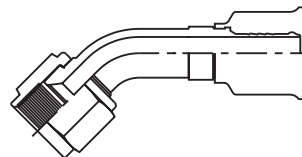


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part Number
7/16x20	1/4	-4	1.18	14126-4-4~
9/16x18	5/16	-6	1.26	14126-6-6
3/4x16	13/32	-8	1.56	14126-8-8~
7/8x14	1/2	-10	1.73	14126-10-10~
1-1/16x12	5/8	-12	1.88	14126-12-12
1-5/16x12	7/8	-16	2.13	14126-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

Female JIC 37°/SAE 45° Swivel - 45° Elbow (Dual Seat)

13V26

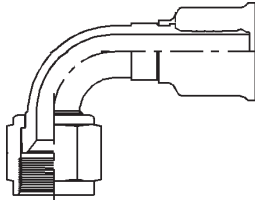


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/16x20	1/4	-4	1.14	13V26-4-4
1/2x20	5/16	-5	1.62	13V26-5-5+
3/4x16	1/2	-8	1.50	13V26-8-8
7/8x14	5/8	-10	1.75	13V26-10-10
7/8x14	5/8	-12	1.76	13V26-10-12

+Non-standard.

**Female JIC 37°/SAE 45°
Swivel - 90° Elbow
(Dual Seat)**

13W26

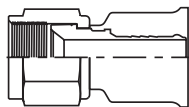


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/16x20	1/4	-4	0.95	13W26-4-4
1/2x20	5/16	-5	1.18	13W26-5-5+
3/4x16	1/2	-8	1.26	13W26-8-8
7/8x14	5/8	-10	1.60	13W26-10-10
7/8x14	5/8	-12	1.61	13W26-10-12

+Non-standard.

**Female JIC 37°/SAE 45°
Swivel - Straight (Dual Seat)**

16826

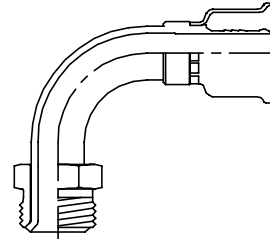


Thread Size	Hose Size	Hose Dash Size	Cut-off Allow.	Part No.
7/16x20	1/4	-4	0.80	16826-4-4
7/16x20	1/4	-4	0.80	16826-4-4BA
7/16x20	1/4	-4	0.80	16826-4-4BS
7/16x20	1/4	-5	1.03	16826-4-5
7/16x20	1/4	-6	1.03	16826-4-6+
1/2x20	5/16	-5	0.90	16826-5-5
1/2x20	5/16	-5	0.90	16826-5-5BA
3/4x16	1/2	-6	1.33	16826-8-6+
3/4x16	1/2	-8	1.05	16826-8-8
3/4x16	1/2	-8	1.05	16826-8-8BA
3/4x16	1/2	-10	1.41	16826-8-10
7/8x14	5/8	-10	1.23	16826-10-10
7/8x14	5/8	-10	1.23	16826-10-10BA
7/8x14	5/8	-12	1.46	16826-10-12

+Non-standard.

**Male Inverted SAE 45°
Swivel - 90° Elbow**

16926

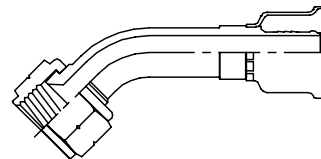


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.54	16926-6-6
7/8x18	5/8	-10	1.99	16926-10-10+

+Non-standard.

**Female SAE 45° Swivel -
45° Elbow**

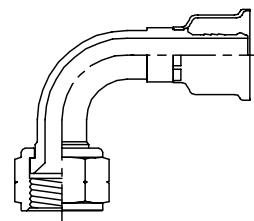
17726



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.33	17726-6-6
1-1/16x14	3/4	-12	2.08	17726-12-12

**Female SAE 45° Swivel -
90° Elbow**

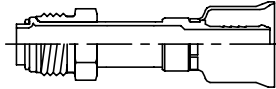
17926



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.23	17926-6-6
1x1/16-14	3/4	-12	1.99	17926-12-12

Male Tube O-Ring Swivel -
Straight, Short Pilot

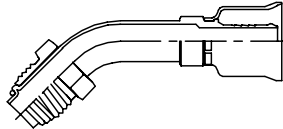
1S526



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/8x18	5/8	-10	2.56	1S526-10-10-PR
7/8x18	5/8	-12	2.57	1S526-10-12-PR

Male Tube O-Ring Swivel -
45° Elbow, Short Pilot

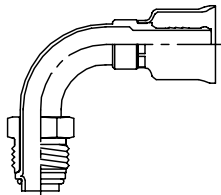
15R26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	2.12	15R26-6-6
3/4x18	1/2	-8	2.17	15R26-8-8
7/8x18	5/8	-10	2.64	15R26-10-10
7/8x18	5/8	-12	2.65	15R26-10-12

Male Tube O-Ring Swivel -
90° Elbow, Short Pilot

15K26

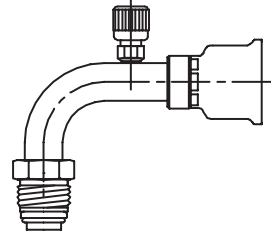


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.35	15K26-6-6
3/4x18	1/2	-8	2.02	15K26-8-8
7/8x18	5/8	-10	1.70	15K26-10-10+
7/8x18	5/8	-12	1.69	15K26-10-12

+Non-standard.

Male Tube O-Ring Swivel -
90° Elbow, Short Pilot with
Charge Port for R12

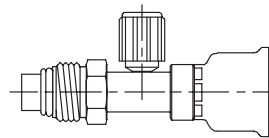
15K26-PR



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/8x18	5/8	-10	2.63	15K26-10-10-PR
7/8x18	5/8	-12	2.64	15K26-10-12-PR

Male Tube O-Ring Swivel -
Straight, Long Pilot with
Charge Port for R134a

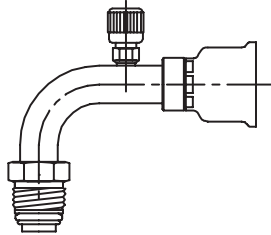
14526-PT



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/8x18	5/8	-12	2.54	14526-10-12-PT

**Male Tube O-Ring Swivel -
90° Elbow, Long Pilot with
Charge Port for R12**

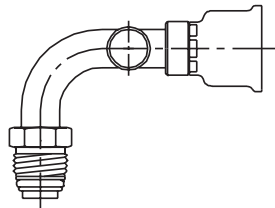
15M26-PR



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	2.19	15M26-6-6-PR

**Male Tube O-Ring Swivel -
90° Elbow, Long Pilot with
Charge Port for R134a**

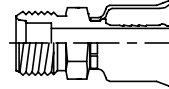
15M26-PV



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/8x18	5/8	-12	2.64	15M26-10-12-PV

**Male Tube O-Ring Rigid -
Straight, Internal Long Pilot**

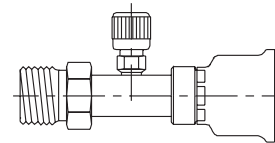
15G26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	0.92	15G26-6-6
7/8x14	5/8	-10	1.25	15G26-10-10
7/8x14	5/8	-12	1.25	15G26-10-12
1-1/16x14	3/4	-12	1.43	15G26-12-12+

**Male Tube O-Ring Rigid -
Straight, Internal Long Pilot**

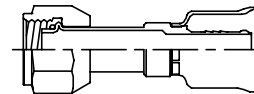
15G26-PR



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/8x14	5/8	-12	2.88	15G26-10-12-PR

**Female Tube O-Ring Swivel -
Straight, Short Pilot**

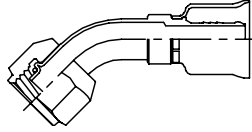
15S26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.73	15S26-6-6
3/4x16	1/2	-8	1.78	15S26-8-8
7/8x14	5/8	-10	1.85	15S26-10-10
7/8x14	5/8	-12	1.86	15S26-10-12

**Female Tube O-Ring Swivel
- 45° Elbow, Short Pilot**

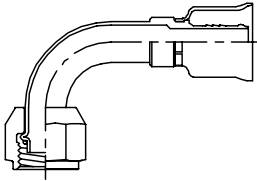
15H26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.54	15H26-6-6
3/4x16	1/2	-8	1.68	15H26-8-8
7/8x14	5/8	-10	2.07	15H26-10-10
7/8x14	5/8	-12	2.08	15H26-10-12

**Female Tube O-Ring Swivel
- 90° Elbow, Short Pilot**

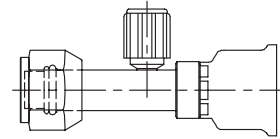
15T26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.35	15T26-6-6
3/4x16	1/2	-8	1.62	15T26-8-8
7/8x14	5/8	-10	1.94	15T26-10-10
7/8x14	5/8	-12	1.95	15T26-10-12

**Female Tube O-Ring Swivel
- Straight, Long Pilot with
Charge Port for R134a**

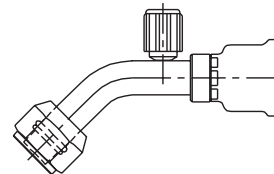
15926-PT



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	2.40	15926-6-6-PT
3/4x16	1/2	-8	2.04	15926-8-8-PT
7/8x14	5/8	-12	2.54	15926-10-12-PT

**Female Tube O-Ring Swivel
- 45° Elbow, Long Pilot with
Charge Port for R134a**

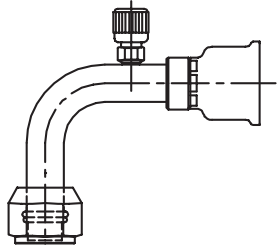
15N26-PT



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
3/4x16	1/2	-8	2.85	15N26-8-8-PT
7/8x14	5/8	-12	3.19	15N26-10-12-PT

Female Tube O-Ring Swivel - 90° Elbow, Long Pilot with Charge Port for R12

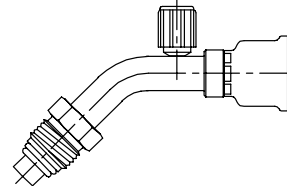
15L26-PR



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
3/4x16	1/2	-8	2.37	15L26-8-8-PR
7/8x14	5/8	-10	2.63	15L26-10-10-PR
7/8x14	5/8	-12	2.64	15L26-10-12-PR

Male Tube O-Ring Swivel - 45° Elbow, Long Pilot with Charge Port for R134a

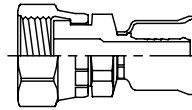
15P26-PT



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
7/8x18	5/8	-12	3.09	15P26-10-12-PT

Female Seal-Lok Swivel - Straight, Short

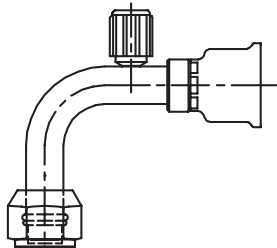
1JC26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
1-7/16x12	1	-16	1.35	1JC26-16-16

Female Tube O-Ring Swivel - 90° Elbow, Long Pilot with Charge Port for R134a

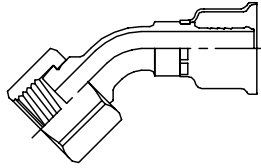
15L26-PT



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	2.19	15L26-6-6-PT
3/4x16	1/2	-8	2.37	15L26-8-8-PT
7/8x14	5/8	-10	2.63	15L26-10-10-PT
7/8x14	5/8	-12	2.64	15L26-10-12-PT

**Female Seal-Lok Swivel -
45° Elbow**

1J726

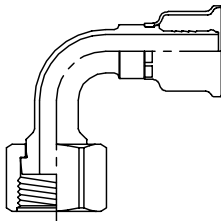


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
9/16x18	1/4	-4	1.12	1J726-4-4
9/16x18	1/4	-4	1.12	1J726-4-4-SM+
11/16x16	3/8	-6	1.21	1J726-6-6
11/16x16	3/8	-6	1.21	1J726-6-6-SM+
13/16x16	1/2	-8	1.48	1J726-8-8
13/16x16	1/2	-8	1.48	1J726-8-8-SM+
1-3/16x12	5/8	-10	1.84	1J726-10-10
1-3/16x12	3/4	-12	1.95	1J726-12-12
1-7/16x12	1	-16	2.57	1J726-16-16
1-11/16x12	1-1/4	-20	2.87	1J726-20-20

+Non-standard.

**Female Seal-Lok Swivel -
90° Elbow, Short Drop**

1J926

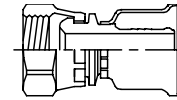


Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
9/16x18	1/4	-4	0.93	1J926-4-4
9/16x18	1/4	-4	0.93	1J926-4-4-SM+
11/16x16	3/8	-6	1.03	1J926-6-6
11/16x16	3/8	-6	1.03	1J926-6-6-SM+
13/16x16	1/2	-8	1.19	1J926-8-8
13/16x16	1/2	-8	1.19	1J926-8-8-SM+
1x14	5/8	-10	1.56	1J926-10-10
1-3/16x12	3/4	-12	2.22	1J926-12-12
1-7/16x12	1	-16	2.52	1J926-16-16
1-11/16x12	1-1/4	-20	2.99	1J926-20-20

+Non-standard.

**Female Air Brake Jounce
Line Swivel - Straight**

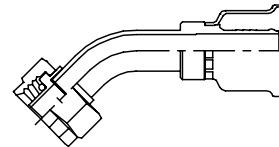
17B26



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
3/4x20	1/2	-6	0.89	17B26-8-6BA
3/4x20	1/2	-8	0.89	17B26-8-8BA

**Female Compressor Swivel -
45° Elbow**

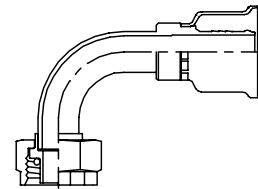
15V26



Thread Size	Tube Dash Size	Hose Dash Size	Cut-off Allow.	Part No.
1x14	-12	-8	2.40	15V26-12-8
1x14	-12	-12	2.45	15V26-12-12

**Female Compressor Swivel -
0° Elbow**

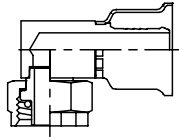
15W26



Thread Size	Tube Dash Size	Hose Dash Size	Cut-off Allow.	Part No.
1x14	-12	-8	2.00	15W26-12-8
1x14	-12	-12	2.10	15W26-12-12

**Female Compressor Swivel
- 90° Elbow, Block Type**

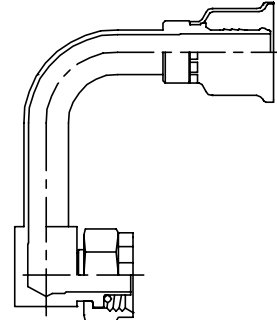
15Z26



Thread Size	Tube Dash Size	Hose Dash Size	Cut-off Allow.	Part No.
1x14	-12	-8	0.93	15Z26-12-8
1x14	-12	-12	0.93	15Z26-12-12

**Compressor Fitting -
180°, Block Type**

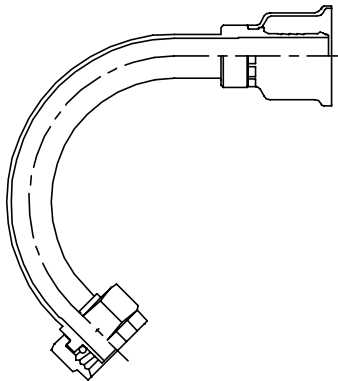
970242



Thread Size	Tube Dash Size	Hose Dash Size	Cut-off Allow.	Part No.
1x14	-12	-12	2.24	970242

**Compressor Fitting -
135° Elbow**

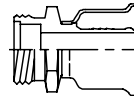
970237/970239



Thread Size	Tube Dash Size	Hose Dash Size	Cut-off Allow.	Part No.
1x14	-12	-8	2.32	970237
1x14	-12	-12	2.15	970239

**Male Refrigerant Tube
Mender - Straight (with Nut
and Ferrule)**

1T126



Thread Size	Tube Size	Hose Dash Size	Cut-off Allow.	Part No.
5/8x18	3/8	-6	1.10	1T126-6-6
3/4x16	1/2	-8	1.21	1T126-8-8
7/8x14	5/8	-10	1.33	1T126-10-10
7/8x14	5/8	-12	1.33	1T126-10-12
1-16x14	3/4	-12	1.39	1T126-12-12

O-Rings

**For Tube O-Ring Air Conditioning
and Refrigeration Fittings.
(Compound N1173-70)***

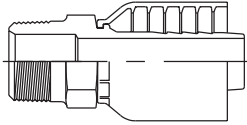
Tube Size	I.D.	Part No.
3/8	.301±.005	771513-1
1/2	.426±.005	771513-2
5/8	.551±.005	771513-4
3/4	.676±.005	771513-4



*For use with R12 or R134a and appropriate lubricants.

Male Pipe NPTF

10143



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-2	1/8x27	-4	1/4	1.05	10143-2-4
-2	1/8x27	-4	1/4	1.05	10143-2-4C+
-4	1/4x18	-4	1/4	1.27	10143-4-4*
-4	1/4x18	-4	1/4	1.12	10143-4-4-SM+
-4	1/4x18	-5	5/16	1.20	10143-4-5
-4	1/4x18	-5	5/16	1.20	10143-4-5C+
-4	1/4x18	-6	3/8	1.25	10143-4-6
-4	1/4x18	-6	3/8	1.25	10143-4-6C+
-6	3/8x18	-4	1/4	1.12	10143-6-4
-6	3/8x18	-4	1/4	1.12	10143-6-4C+
-6	3/8x18	-5	5/16	1.20	10143-6-5
-6	3/8x18	-6	3/8	1.25	10143-6-6*
-6	3/8x18	-8	1/2	1.37	10143-6-8
-6	3/8x18	-10	5/8	1.18	10143-6-10
-6	3/8x18	-12	3/4	1.41	10143-6-12+
-8	1/2x14	-4	1/4	1.39	10143-8-4
-8	1/2x14	-6	3/8	1.37	10143-8-6
-8	1/2x14	-6	3/8	1.37	10143-8-6C+
-8	1/2x14	-8	1/2	1.38	10143-8-8*
-8	1/2x14	-10	5/8	1.18	10143-8-10
-8	1/2x14	-12	3/4	1.44	10143-8-12
-12	3/4x14	-8	1/2	1.43	10143-12-8
-12	3/4x14	-8	1/2	1.43	10143-12-8C+
-12	3/4x14	-10	5/8	1.60	10143-12-10
-12	3/4x14	-12	3/4	1.65	10143-12-12*
-12	3/4x14	-16	1	1.79	10143-12-16
-16	1x11-1/2	-8	1/2	1.82	10143-16-8+
-16	1x11-1/2	-12	3/4	1.65	10143-16-12
-16	1x11-1/2	-16	1	2.03	10143-16-16*
-16	1x11-1/2	-20	1	2.03	10143-16-20+*
-20	1-1/4x11-1/2	-20	1-1/4	2.39	10143-20-20*
-24	1-1/2x11-1/2	-20	1-1/4	2.38	10143-24-20+
-24	1-1/2x11-1/2	-24	1-1/2	2.38	10143-24-24
-24	1-1/2x11-1/2	-24	1-1/2	2.38	10143-24-24C+
-32	2x11-1/2	-32	2	2.42	10143-32-32
-32	2x11-1/2	-32	2	2.42	10143-32-32C+

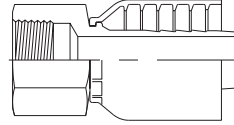
*Also available in 316 stainless steel. Add "C" to part no.
Example: 10143-4-4C.

Fittings with "SM" suffix have metric hex.

+Non-standard.

Female NPTF Pipe

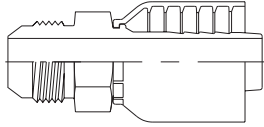
10243



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-2	1/8x27	-4	1/4	0.94	10243-2-4
-4	1/4x18	-4	1/4	1.04	10243-4-4
-4	1/4x18	-6	3/8	1.03	10243-4-6
-6	3/8x18	-4	1/4	1.31	10243-6-4
-6	3/8x18	-6	3/8	1.30	10243-6-6
-8	1/2x14	-6	3/8	1.38	10243-8-6
-8	1/2x14	-8	1/2	1.37	10243-8-8
-12	3/4x14	-12	3/4	1.27	10243-12-12

Male JIC 37°

10343



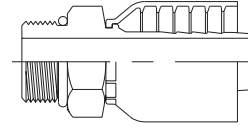
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.25	10343-4-4
-4	7/16x20	-4	1/4	1.24	10343-4-4C+
-4	7/16x20	-6	3/8	1.23	10343-4-6+
-5	1/2x20	-4	1/4	1.09	10343-5-4
-5	1/2x20	-5	5/16	1.17	10343-5-5+
-5	1/2x20	-6	3/8	1.24	10343-5-6
-5	1/2x20	-8	1/2	1.31	10343-5-8+
-6	9/16x18	-4	1/4	1.10	10343-6-4
-6	9/16x18	-5	5/16	1.43	10343-6-5+
-6	9/16x18	-6	3/8	1.38	10343-6-6
-6	9/16x18	-8	1/2	1.32	10343-6-8+
-8	3/4x16	-6	3/8	1.28	10343-8-6
-8	3/4x16	-8	1/2	1.43	10343-8-8
-8	3/4x16	-8	1/2	1.43	10343-8-8C+
-8	3/4x16	-10	5/8	1.60	10343-8-10
-10	7/8x14	-6	3/8	1.38	10343-10-6
-10	7/8x14	-8	1/2	1.37	10343-10-8
-10	7/8x14	-10	5/8	1.41	10343-10-10
-10	7/8x14	-12	3/4	1.56	10343-10-12+
-12	1-1/16x12	-8	1/2	1.51	10343-12-8
-12	1-1/16x12	-10	5/8	1.64	10343-12-10
-12	1-1/16x12	-12	3/4	1.75	10343-12-12
-12	1-1/16x12	-12	3/4	1.75	10343-12-12C+
-14	1-3/16x12	-12	3/4	1.66	10343-14-12
-16	1-5/16x12	-12	3/4	1.59	10343-16-12
-16	1-5/16x12	-16	1	1.74	10343-16-16
-20	1-5/8x12	-12	3/4	1.70	10343-20-12+
-20	1-5/8x12	-20	1-1/4	2.27	10343-20-20
-20	1-5/8x12	-20	1-1/4	2.27	10343-20-20C+
-24	1-7/8x12	-20	1-1/4	2.02	10343-24-20^
-24	1-7/8x12	-24	1-1/2	1.97	10343-24-24+
-32	2-1/2x12	-32	2	2.52	10343-32-32+

^Must use Parkrimp 2 or Superkrimp and die part number 83C-A20H.

+Non-standard.

Straight Thread O-Ring

10543



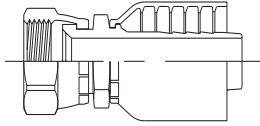
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	0.90	10543-4-4
-4	7/16x20	-4	1/4	0.90	10543-4-4C+
-5	1/2x20	-4	1/4	1.06	10543-5-4
-6	9/16x18	-4	1/4	0.93	10543-6-4
-6	9/16x18	-6	3/8	1.08	10543-6-6
-6	9/16x18	-8	1/2	1.07	10543-6-8
-8	3/4x16	-6	3/8	1.09	10543-8-6
-8	3/4x16	-8	1/2	1.20	10543-8-8
-8	3/4x16	-8	1/2	1.20	10543-8-8C+
-8	3/4x16	-10	5/8	1.19	10543-8-10+
-10	7/8x14	-6	3/8	1.11	10543-10-6
-10	7/8x14	-8	1/2	1.10	10543-10-8
-10	7/8x14	-8	1/2	1.10	10543-10-8C+
-10	7/8x14	-10	5/8	1.30	10543-10-10
-10	7/8x14	-12	3/4	1.34	10543-10-12+
-12	1-1/16x12	-8	1/2	1.36	10543-12-8
-12	1-1/16x12	-10	5/8	1.37	10543-12-10
-12	1-1/16x12	-12	3/4	1.36	10543-12-12
-12	1-1/16x12	-12	3/4	1.36	10543-12-12C+
-16	1-5/16x12	-12	3/4	1.36	10543-16-12
-16	1-5/16x12	-16	1	1.76	10543-16-16
-16	1-5/16x12	-16	1	1.76	10543-16-16C+
-20	1-5/8x12	-20	1-1/4	2.00	10543-20-20
-20	1-5/8x12	-20	1-1/4	2.00	10543-20-20C+
-24	1-7/8x12	-24	1-1/2	1.79	10543-24-24+
-32	2-1/2x12	-32	2	1.84	10543-32-32+

O-Ring not compatible with Phosphate Ester Fluids.

+Non-standard.

JIC 37° Swivel

10643



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	PartNo.
-4	7/16x20	-4	1/4	1.19	10643-4-4~*
-4	7/16x20	-5	5/16	1.27	10643-4-5+~
-4	7/16x20	-6	3/8	1.17	10643-4-6~
-4	7/16x20	-6	3/8	1.17	10643-4-6C~+
-5	1/2x20	-4	1/4	1.28	10643-5-4~
-5	1/2x20	-5	5/16	1.33	10643-5-5~
-5	1/2x20	-6	3/8	1.23	10643-5-6~
-5	1/2x20	-6	3/8	1.23	10643-5-6C~+
-6	9/16x18	-4	1/4	1.30	10643-6-4
-6	9/16x18	-4	1/4	1.30	10643-6-4C+
-6	9/16x18	-5	5/16	1.35	10643-6-5
-6	9/16x18	-6	3/8	1.26	10643-6-6*
-6	9/16x18	-8	1/2	1.25	10643-6-8
-8	3/4x16	-4	1/4	1.47	10643-8-4~+
-8	3/4x16	-6	3/8	1.46	10643-8-6~
-8	3/4x16	-8	1/2	1.37	10643-8-8~*
-8	3/4x16	-10	5/8	1.38	10643-8-10~
-8	3/4x16	-12	3/4	1.39	10643-8-12~
-8	3/4x16	-12	3/4	1.39	10643-8-12C~+
-8	3/4x16	-16	1	1.65	10643-8-16~+
-10	7/8x14	-6	3/8	1.48	10643-10-6~
-10	7/8x14	-6	3/8	1.48	10643-10-6C~+
-10	7/8x14	-8	1/2	1.59	10643-10-8~
-10	7/8x14	-8	1/2	1.59	10643-10-8C~+
-10	7/8x14	-10	5/8	1.49	10643-10-10~*
-10	7/8x14	-12	3/4	1.49	10643-10-12~
-12	1-1/16x12	-8	1/2	1.52	10643-12-8
-12	1-1/16x12	-10	5/8	1.66	10643-12-10
-12	1-1/16x12	-12	3/4	1.73	10643-12-12*
-12	1-1/16x12	-16	1	1.67	10643-12-16
-12	1-1/16x12	-16	1	1.67	10643-12-16C+
-14	1-3/16x12	-12	3/4	1.74	10643-14-12
-16	1-5/16x12	-12	3/4	1.87	10643-16-12
-16	1-5/16x12	-12	3/4	1.87	10643-16-12C+
-16	1-5/16x12	-16	1	2.00	10643-16-16*
-16	1-5/16x12	-20	1-1/4	2.12	10643-16-20+
-20	1-5/8x12	-16	1	2.19	10643-20-16
-20	1-5/8x12	-20	1-1/4	2.25	10643-20-20*
-20	1-5/8x12	-20	1-1/4	2.28	10643-20-24+
-24	1-7/8x12	-20	1-1/4	2.44	10643-24-20C+
-24	1-7/8x12	-24	1-1/2	2.47	10643-24-24
-24	1-7/8x12	-24	1-1/2	2.47	10643-24-24C+
-32	2-1/2x12	-20	1-1/4	2.93	10643-32-20+
-32	2-1/2x12	-32	2	2.96	10643-32-32
-32	2-1/2x12	-32	2	2.96	10643-32-32C+

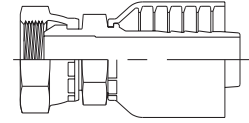
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations.

*Also available in 316 stainless steel. Add "C" to part no. Example: 10643-4-4C.

+Non-standard.

Female NPSM Pipe Swivel

10743



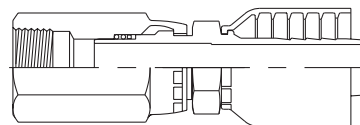
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-2	1/8x27	-4	1/4	0.95	10743-2-4
-2	1/8x27	-4	1/4	1.31	10743-2-4C+
-4	1/4x18	-4	1/4	0.99	10743-4-4
-6	3/8x18	-4	1/4	1.08	10743-6-4+
-6	3/8x18	-6	3/8	1.27	10743-6-6
-6	3/8x18	-8	1/2	1.04	10743-6-8+
-6	3/8x18	-8	1/2	1.04	10743-6-8SM+
-8	1/2x14	-6	3/8	1.11	10743-8-6+
-8	1/2x14	-6	3/8	1.11	10743-8-6SM+
-8	1/2x14	-8	1/2	1.35	10743-8-8
-12	3/4x14	-8	1/2	1.59	10743-12-8+
-12	3/4x14	-12	3/4	1.60	10743-12-12
-16	1x11-1/2	-16	1	1.85	10743-16-16
-20	1-1/4x11-1/2	-20	1-1/4	1.98	10743-20-20

Fittings with "SM" suffix have metric hex.

+Non-standard.

Female NPTF Pipe Swivel

1S243



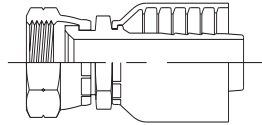
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	1/4x18	-4	1/4	2.59	1S243-4-4
-6	3/8x18	-4	1/4	2.71	1S243-6-4+

The fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling. O-Ring not compatible with Phosphate Ester Fluids.

+Non-standard.

SAE 45° Swivel

10843



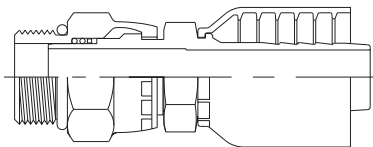
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	5/8x18	-4	1/4	0.93	10843-6-4
-6	5/8x18	-6	3/8	1.40	10843-6-6
-6	5/8x18	-8	1/2	1.40	10843-6-8+
-12	1-1/16x14	-8	1/2	1.52	10843-12-8+
-12	1-1/16x14	-12	3/4	1.53	10843-12-12

Notch on nut indicates SAE 45° flare. See 10643 fittings for additional sizes.

+Non-standard.

Straight Thread O-Ring Swivel

10G43



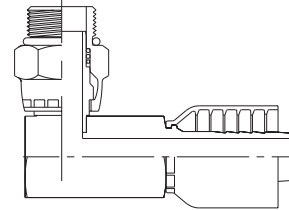
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-5	1/2x20	-4	1/4	2.32	10G43-5-4
-6	9/16x18	-4	1/4	2.35	10G43-6-4
-6	9/16x18	-6	3/8	2.14	10G43-6-6
-8	3/4x16	-6	3/8	2.06	10G43-8-6
-8	3/4x16	-8	1/2	1.94	10G43-8-8
-8	3/4x16	-10	5/8	2.08	10G43-8-10+
-10	7/8x14	-6	3/8	2.01	10G43-10-6
-10	7/8x14	-8	1/2	2.06	10G43-10-8
-12	1-1/16x12	-12	3/4	2.19	10G43-12-12

The fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling. O-Ring not compatible with Phosphate Ester Fluids.

+Non-standard.

Straight Thread O-Ring 90° Elbow - Swivel

10L43



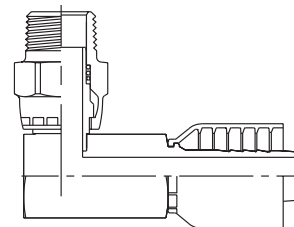
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.48	10L43-4-4+
-6	9/16x18	-4	1/4	1.52	10L43-6-4+
-6	9/16x18	-6	3/8	1.50	10L43-6-6
-8	3/4x16	-6	3/8	1.64	10L43-8-6
-8	3/4x16	-8	1/2	1.71	10L43-8-8
-8	3/4x16	-8	1/2	1.71	10L43-8-8C+
-8	3/4x16	-12	3/4	1.88	10L43-8-12+
-10	7/8x14	-8	1/2	1.71	10L43-10-8
-12	1-1/16x12	-12	3/4	1.87	10L43-12-12

The fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling. O-Ring not compatible with Phosphate Ester Fluids.

+Non-standard.

Male NPTF Pipe 90° Elbow - Swivel

11L43



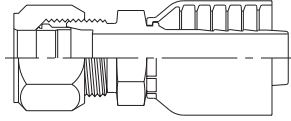
Pipe Thread Dash Size	Pipe Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	1/4x18	-4	1/4	1.49	11L43-4-4
-4	1/4x18	-6	3/8	1.53	11L43-4-6
-6	3/8x18	-4	1/4	1.52	11L43-6-4+
-6	3/8x18	-6	3/8	1.51	11L43-6-6
-6	3/8x18	-6	3/8	1.51	11L43-6-6C+
-8	1/2x14	-6	3/8	1.63	11L43-8-6
-8	1/2x14	-8	1/2	1.71	11L43-8-8
-12	3/4x14	-12	3/4	2.36	11L43-12-12
-16	1x11-1/2	-16	1	2.26	11L43-16-16+

The fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling. O-Ring not to be used with Phosphate Ester Fluids.

+Non-standard.

“Ferrul-Fix” SAE Flareless

11143



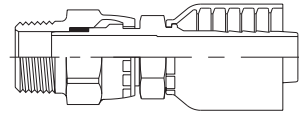
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.40	11143-4-4
-4	7/16x20	-6	3/8	1.44	11143-4-6
-5	1/2x20	-4	1/4	1.40	11143-5-4
-5	1/2x20	-5	5/16	1.44	11143-5-5+
-5	1/2x20	-6	3/8	1.44	11143-5-6
-6	9/16x18	-5	5/16	1.14	11143-6-5+
-6	9/16x18	-6	3/8	1.50	11143-6-6
-8	3/4x16	-8	1/2	1.68	11143-8-8
-8	3/4x16	-8	1/2	1.68	11143-8-8C+
-10	7/8x14	-8	1/2	1.82	11143-10-8
-10	7/8x14	-10	5/8	1.76	11143-10-10+
-12	1-1/16x12	-12	3/4	1.96	11143-12-12
-12	1-1/16x12	-12	3/4	1.96	11143-12-12C+
-16	1-5/16x12	-16	1	2.18	11143-16-16

The Parker “Ferrule-Fix” fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy, on-the-job repairs.

+Non-standard.

Male Pipe NPTF Swivel

11343



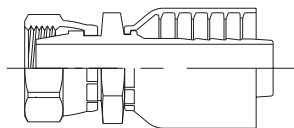
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-2	1/8x27	-4	1/4	2.36	11343-2-4
-4	1/4x18	-4	1/4	1.93	11343-4-4
-4	1/4x18	-6	3/8	1.98	11343-4-6
-4	1/4x18	-6	3/8	1.94	11343-4-6C+
-6	3/8x18	-4	1/4	2.18	11343-6-4
-6	3/8x18	-6	3/8	2.03	11343-6-6
-6	3/8x18	-8	1/2	2.04	11343-6-8
-8	1/2x14	-6	3/8	2.35	11343-8-6
-8	1/2x14	-8	1/2	2.25	11343-8-8
-8	1/2x14	-8	1/2	2.24	11343-8-8C+
-12	3/4x14	-8	1/2	2.50	11343-12-8+
-12	3/4x14	-10	5/8	2.50	11343-12-10+
-12	3/4x14	-12	3/4	2.50	11343-12-12
-16	1x11-1/2	-16	1	2.90	11343-16-16
-16	1x11-1/2	-16	1	2.90	11343-16-16C+

The fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous or extensive swiveling.

+Non-standard.

SAE Flareless Swivel

11243

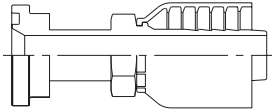


Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	9/16x18	-6	3/8	1.29	11243-6-6
-8	3/4x16	-6	3/8	1.40	11243-8-6
-8	3/4x16	-8	1/2	1.39	11243-8-8
-16	1-5/16x12	-16	1	1.98	11243-16-16+
-20	1-5/8x12	-20	1-1/4	2.21	11243-20-20+
-24	1-7/8x12	-24	1-1/2	2.47	11243-24-24+

+Non-standard.

**SAE (Code 61) Flange
Straight**

11543



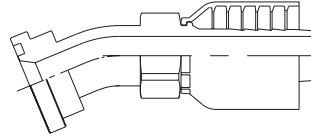
Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	-6	3/8	1.10	11543-8-6+
-8	1/2	-8	1/2	2.22	11543-8-8
-8	1/2	-8	1/2	2.22	11543-8-8C+
-10	5/8	-8	1/2	3.20	11543-10-8+
-10	5/8	-10	5/8	3.22	11543-10-10
-12	3/4	-8	1/2	2.16	11543-12-8
-12	3/4	-10	5/8	1.29	11543-12-10+
-12	3/4	-12	3/4	2.13	11543-12-12
-12	3/4	-12	3/4	2.42	11543-12-12C+
-16	1	-12	3/4	1.60	11543-16-12
-16	1	-12	3/4	1.60	11543-16-12C+
-16	1	-16	1	2.28	11543-16-16
-16	1	-16	1	2.63	11543-16-16C+
-16	1	-24	1-1/2	3.05	11543-16-24+
-20	1-1/4	-16	1	1.57	11543-20-16
-20	1-1/4	-20	1-1/4	3.01	11543-20-20
-20	1-1/4	-20	1-1/4	3.10	11543-20-20C+
-20	1-1/4	-24	1-1/2	3.05	11543-20-24+
-24	1-1/2	-16	1	2.75	11543-24-16C+
-24	1-1/2	-20	1-1/4	3.11	11543-24-20^
-24	1-1/2	-24	1-1/2	3.21	11543-24-24
-24	1-1/2	-32	2	3.29	11543-24-32
-32	2	-20	1-1/4	3.10	11543-32-20^
-32	2	-24	1-1/2	1.76	11543-32-24
-32	2	-32	2	3.21	11543-32-32
-40	2-1/2	-32	2	2.05	11543-40-32+

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

**SAE (Code 61) Flange
22-1/2° Elbow**

11643



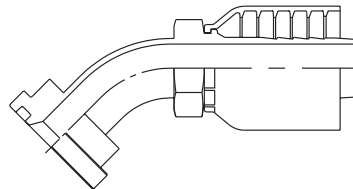
Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	-8	1/2	2.00	11643-8-8+
-12	3/4	-12	3/4	2.47	11643-12-12
-16	1	-12	3/4	2.46	11643-16-12
-16	1	-16	1	2.66	11643-16-16
-20	1-1/4	-16	1	2.66	11643-20-16
-20	1-1/4	-20	1-1/4	3.00	11643-20-20
-24	1-1/2	-20	1-1/4	3.01	11643-24-20^

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

**SAE (Code 61) Flange
45° Elbow**

11743



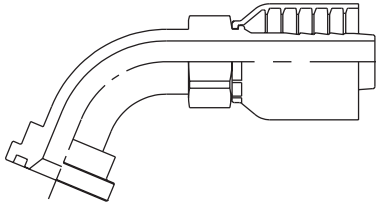
Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	-6	3/8	2.26	11743-8-6+
-8	1/2	-8	1/2	2.05	11743-8-8
-10	5/8	-8	1/2	1.98	11743-10-8+
-10	5/8	-10	5/8	3.19	11743-10-10
-12	3/4	-8	1/2	2.08	11743-12-8
-12	3/4	-12	3/4	2.21	11743-12-12
-16	1	-12	3/4	2.60	11743-16-12
-16	1	-16	1	2.51	11743-16-16
-20	1-1/4	-12	3/4	2.18	11743-20-12+
-20	1-1/4	-16	1	2.51	11743-20-16
-20	1-1/4	-20	1-1/4	2.83	11743-20-20
-20	1-1/4	-24	1-1/2	4.09	11743-20-24
-24	1-1/2	-20	1-1/4	3.37	11743-24-20^
-24	1-1/2	-24	1-1/2	4.14	11743-24-24
-24	1-1/2	-32	2	4.18	11743-24-32+
-32	2	-24	1-1/2	4.13	11743-32-24
-32	2	-32	2	5.45	11743-32-32
-40	2-1/2	-32	2	5.51	11743-40-32+

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

**SAE (Code 61) Flange
67-1/2° Elbow**

11843



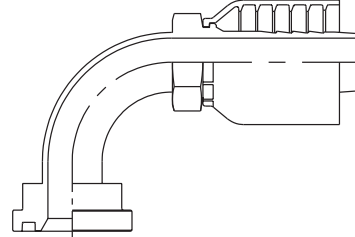
Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	-8	1/2	2.38	11843-8-8+
-12	3/4	-12	3/4	2.66	11843-12-12
-16	1	-16	1	3.07	11843-16-16
-20	1-1/4	-20	1-1/4	3.37	11843-20-20
-24	1-1/2	-20	1-1/4	3.40	11843-24-20^+
-24	1-1/2	-24	1-1/2	4.24	11843-24-24+

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

**SAE (Code 61) Flange
90° Elbow**

11943



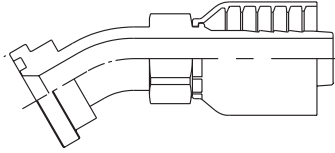
Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	-6	3/8	1.78	11943-8-6+
-8	1/2	-8	1/2	1.37	11943-8-8
-8	1/2	-8	1/2	1.67	11943-8-8C+
-10	5/8	-8	1/2	3.04	11943-10-8
-10	5/8	-10	5/8	2.27	11943-10-10
-12	3/4	-8	1/2	1.44	11943-12-8
-12	3/4	-10	5/8	1.93	11943-12-10
-12	3/4	-12	3/4	1.91	11943-12-12
-12	3/4	-12	3/4	1.91	11943-12-12C+
-16	1	-8	1/2	1.43	11943-16-8
-16	1	-12	3/4	1.91	11943-16-12
-16	1	-16	1	2.31	11943-16-16
-16	1	-20	1-1/4	2.47	11943-16-20+
-16	1	-24	1-1/2	2.65	11943-16-24+
-20	1-1/4	-16	1	2.31	11943-20-16
-20	1-1/4	-16	1	2.60	11943-20-16C+
-20	1-1/4	-20	1-1/4	2.73	11943-20-20
-20	1-1/4	-24	1-1/2	2.83	11943-20-24
-24	1-1/2	-20	1-1/4	3.11	11943-24-20^
-24	1-1/2	-24	1-1/2	4.14	11943-24-24
-24	1-1/2	-32	2	4.19	11943-24-32+
-32	2	-24	1-1/2	4.12	11943-32-24
-32	2	-32	2	4.97	11943-32-32
-40	2-1/4	-32	2	4.97	11943-40-32+

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

**SAE (Code 61) Flange
30° Elbow**

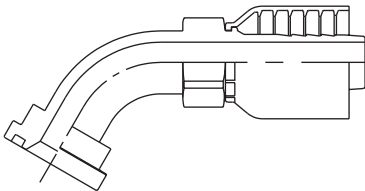
12643



Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	-12	3/4	2.42	12643-12-12
-16	1	-16	1	2.77	12643-16-16
-20	1-1/4	-16	1	2.77	12643-20-16
-20	1-1/4	-20	1-1/4	2.69	12643-20-20

**SAE (Code 61) Flange
60° Elbow**

12743

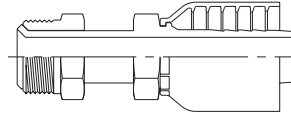


Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	-12	3/4	2.70	12743-12-12
-16	1	-12	3/4	2.70	12743-16-12
-16	1	-16	1	2.95	12743-16-16
-20	1-1/4	-20	1-1/4	3.41	12743-20-20
-24	1-1/2	-24	1-1/2	4.30	12743-24-24+

+Non-standard.

**SAE Male Inverted Swivel
Straight**

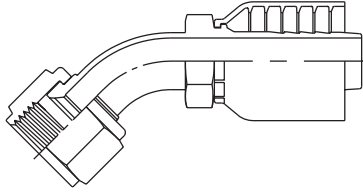
12843



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-3	3/8x24	-4	1/4	1.60	12843-3-4+
-4	7/16x24	-4	1/4	1.58	12843-4-4
-4	7/16x24	-6	3/8	1.62	12843-4-6
-5	1/2x20	-4	1/4	1.86	12843-5-4
-5	1/2x20	-6	3/8	1.72	12843-5-6
-6	5/8x18	-4	1/4	1.98	12843-6-4+
-6	5/8x18	-6	3/8	1.83	12843-6-6
-6	5/8x18	-8	1/2	1.88	12843-6-8+
-7	11/16x18	-6	3/8	1.94	12843-7-6
-8	3/4x18	-8	1/2	1.85	12843-8-8
-10	7/8x18	-8	1/2	2.09	12843-10-8+
-10	7/8x18	-10	5/8	2.13	12843-10-10+

JIC 37° Swivel 45° Elbow

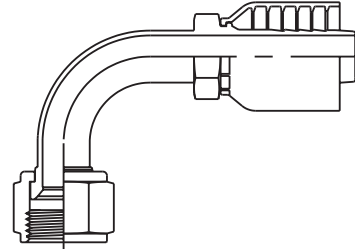
13743



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.21	13743-4-4
-4	7/16x20	-4	1/4	1.21	13743-4-4C+
-5	1/2x20	-4	1/4	1.44	13743-5-4
-6	9/16x18	-4	1/4	1.48	13743-6-4
-6	9/16x18	-5	5/16	1.57	13743-6-5+
-6	9/16x18	-6	3/8	1.39	13743-6-6
-6	9/16x18	-6	3/8	1.32	13743-6-6C+
-6	9/16x18	-8	1/2	1.33	13743-6-8+
-8	3/4x16	-5	5/16	1.75	13743-8-5+
-8	3/4x16	-6	3/8	1.74	13743-8-6
-8	3/4x16	-8	1/2	1.63	13743-8-8
-10	7/8x14	-8	1/2	1.71	13743-10-8
-10	7/8x14	-10	5/8	1.73	13743-10-10
-10	7/8x14	-10	5/8	1.88	13743-10-10C+
-12	1-1/16x12	-8	1/2	1.83	13743-12-8+
-12	1-1/16x12	-10	5/8	2.08	13743-12-10
-12	1-1/16x12	-12	3/4	2.14	13743-12-12
-14	1-3/16x12	-12	3/4	2.21	13743-14-12+
-16	1-5/16x12	-16	1	2.49	13743-16-16
-20	1-5/8x12	-16	1	2.57	13743-20-16+
-20	1-5/8x12	-20	1-1/4	2.82	13743-20-20
-20	1-5/8x12	-20	1-1/4	2.90	13743-20-20C+
-24	1-7/8x12	-24	1-1/2	4.18	13743-24-24+
-32	2-1/2x12	-32	2	5.56	13743-32-32+

JIC 37° Swivel 90° Elbow (Medium)

1L943



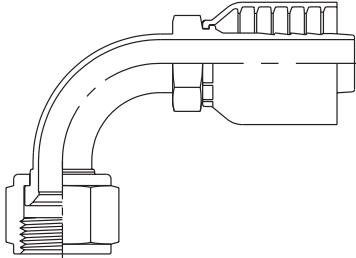
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.10	1L943-4-4~
-6	9/16x18	-4	1/4	1.38	1L943-6-4+
-6	9/16x18	-6	3/8	1.28	1L943-6-6
-8	3/4x16	-6	3/8	1.50	1L943-8-6~
-8	3/4x16	-8	1/2	1.40	1L943-8-8~
-10	7/8x14	-8	1/2	2.00	1L943-10-8~
-12	1-1/16x12	-12	3/4	2.22	1L943-12-12
-16	1-5/16x12	-16	1	2.83	1L943-16-16

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**JIC 37° Swivel 90° Elbow
(Short)**

13943



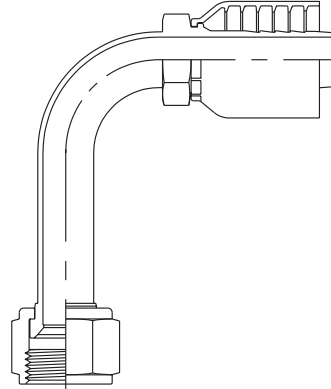
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.04	13943-4-4~
-4	7/16x20	-4	1/4	1.03	13943-4-4C~+
-4	7/16x20	-6	3/8	1.08	13943-4-6~
-5	1/2x20	-4	1/4	1.43	13943-5-4~
-5	1/2x20	-5	5/16	1.52	13943-5-5~
-5	1/2x20	-6	3/8	1.28	13943-5-6~+
-6	9/16x18	-4	1/4	1.38	13943-6-4
-6	9/16x18	-5	5/16	1.47	13943-6-5+
-6	9/16x18	-6	3/8	1.28	13943-6-6
-6	9/16x18	-6	3/8	1.28	13943-6-6C+
-6	9/16x18	-8	1/2	1.27	13943-6-8
-8	3/4x16	-6	3/8	1.50	13943-8-6~
-8	3/4x16	-6	3/8	1.50	13943-8-6C~+
-8	3/4x16	-8	1/2	1.40	13943-8-8~
-10	7/8x14	-8	1/2	1.52	13943-10-8~
-10	7/8x14	-10	5/8	1.58	13943-10-10~
-10	7/8x14	-12	3/4	1.66	13943-10-12~+
-12	1-1/16x12	-8	1/2	1.92	13943-12-8
-12	1-1/16x12	-10	5/8	2.05	13943-12-10
-12	1-1/16x12	-12	3/4	2.07	13943-12-12
-12	1-1/16x12	-12	3/4	2.07	13943-12-12C+
-16	1-5/16x12	-12	3/4	2.05	13943-16-12
-16	1-5/16x12	-16	1	2.46	13943-16-16
-16	1-5/16x12	-16	1	2.70	13943-16-16C+
-20	1-5/8x12	-16	1	2.28	13943-20-16+
-20	1-5/8x12	-20	1-1/4	2.73	13943-20-20
-24	1-7/8x12	-24	1-1/2	4.17	13943-24-24+
-32	2-1/2x12	-32	2	4.97	13943-32-32+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**JIC 37° Swivel 90° Elbow
(Long)**

14143



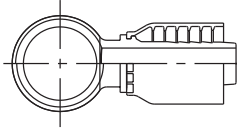
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	-4	1/4	1.21	14143-4-4~
-5	1/2x20	-4	1/4	1.18	14143-5-4~
-6	9/16x18	-4	1/4	1.37	14143-6-4+
-6	9/16x18	-6	3/8	1.27	14143-6-6
-6	9/16x18	-8	1/2	1.24	14143-6-8+
-8	3/4x16	-6	3/8	1.56	14143-8-6~
-8	3/4x16	-8	1/2	1.47	14143-8-8~
-8	3/4x16	-8	1/2	1.41	14143-8-8C~+
-10	7/8x14	-8	1/2	1.52	14143-10-8~
-10	7/8x14	-10	5/8	1.75	14143-10-10~
-12	1-1/16x12	-10	5/8	1.93	14143-12-10+
-12	1-1/16x12	-12	3/4	1.95	14143-12-12
-12	1-1/16x12	-12	3/4	1.95	14143-12-12C+
-14	1-3/16x12	-12	3/4	1.95	14143-14-12
-16	1-5/16x12	-12	3/4	1.94	14143-16-12+
-16	1-5/16x12	-16	1	2.31	14143-16-16
-16	1-5/16x12	-16	1	2.30	14143-16-16C+
-20	1-5/8x12	-20	1-1/4	2.73	14143-20-20
-20	1-5/8x12	-20	1-1/4	3.12	14143-20-20C+
-32	2-1/2x12	-32	2	4.97	14143-32-32+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

Banjo Union DIN 7642

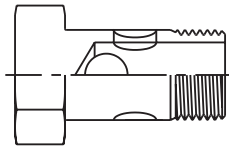
14943



Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4	0.98	14943-12-4
-5	5/16	1.06	14943-14-5
-6	3/8	1.14	14943-16-6
-8	1/2	1.22	14943-18-8
-10	5/8	1.38	14943-22-10
-12	3/4	1.54	14943-26-12+
-16	1	1.85	14943-30-16+

+Non-standard.

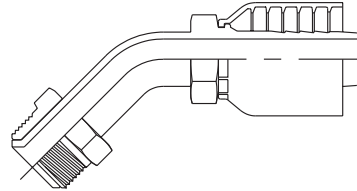
**AM Banjo Bolt
(DIN 7641-7643)**



Tube Size	Metric Thread Size mm	Part No.
8	M8x1	AM-03
10	M10x1	AM-04
12	M12x1.5	AM-06
14	M14x1.5	AM-08
16	M16x1.5	AM-10
18	M18x1.5	AM-13
22	M22x1.5	AM-16
26	M26x1.5	AM-20
30	M30x1.5	AM-30

**SAE Male Inverted Swivel
45° Elbow**

16743

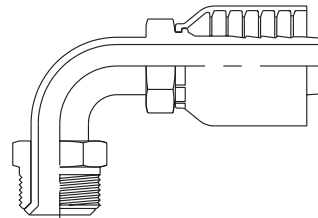


Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x24	-4	1/4	1.35	16743-4-4
-4	7/16x24	-6	3/8	1.39	16743-4-6
-5	1/2x20	-4	1/4	1.60	16743-5-4
-5	1/2x20	-6	3/8	1.38	16743-5-6
-6	5/8x18	-4	1/4	2.05	16743-6-4+
-6	5/8x18	-6	3/8	1.90	16743-6-6
-7	11/16x18	-6	3/8	1.98	16743-7-6+
-8	3/4x18	-8	1/2	1.97	16743-8-8

+Non-standard.

**SAE 45° Inverted Swivel
90° Elbow**

16943

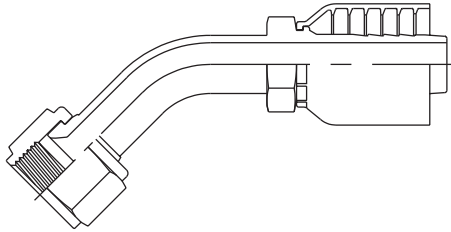


Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-3	3/8x24	-4	1/4	1.21	16943-3-4+
-4	7/16x24	-4	1/4	1.42	16943-4-4
-4	7/16x24	-6	3/8	1.49	16943-4-6
-5	1/2x20	-4	1/4	1.67	16943-5-4
-5	1/2x20	-6	3/8	1.55	16943-5-6
-6	5/8x18	-6	3/8	1.59	16943-6-6
-6	5/8x18	-8	1/2	1.59	16943-6-8+
-7	11/16x18	-6	3/8	1.52	16943-7-6
-8	3/4x18	-8	1/2	1.48	16943-8-8
-12	1-1/16x16	-12	3/4	2.16	16943-12-12+

+Non-standard.

SAE 45° Swivel 45° Elbow

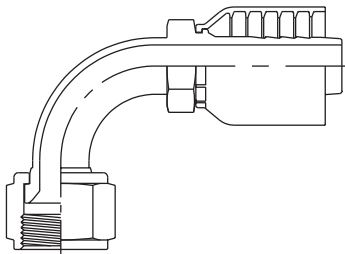
17743



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No
-4	7/16x20	-6	3/8	1.02	17743-4-6

SAE 45° Swivel 90° Elbow

17943

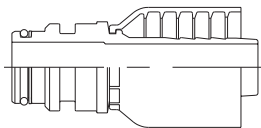


Thead Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	5/8x18	-6	3/8	1.13	17943-6-6
-8	3/4x16	-8	1/2	1.37	17943-8-8+

+Non-standard.

Male “Hydra-Clip”

1S043

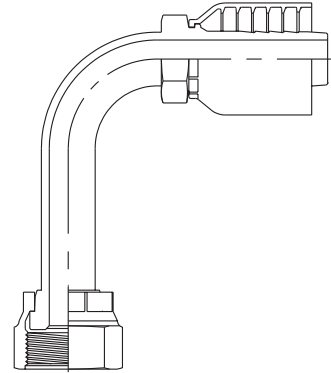


Hydra-Clip Dash Size	Hydra-Clip Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	1/4	-4	1/4	1.58	1S043-4-4
-6	3/8	-6	3/8	1.55	1S043-6-6
-8	1/2	-8	1/2	1.55	1S043-8-8
-12	3/4	-12	3/4	1.55	1S043-12-12
-16	1	-16	1	1.93	1S043-16-16
-20	1-1/4	-20	1-1/4	1.98	1S043-20-20+

+Non-standard.

Female “Seal-Lok” Swivel 90° Elbow (Long)

1J143



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	1.27	1J143-4-4
-6	11/16x16	-4	1/4	1.51	1J143-6-4
-6	11/16x16	-4	1/4	1.51	1J143-6-4-SM+
-6	11/16x16	-6	3/8	1.36	1J143-6-6
-6	11/16x16	-6	3/8	1.36	1J143-6-6-SM
-8	13/16x16	-6	3/8	1.57	1J143-8-4+
-8	13/16x16	-6	3/8	1.42	1J143-8-6
-8	13/16x16	-6	3/8	1.42	1J143-8-6-SM+
-8	13/16x16	-8	1/2	1.33	1J143-8-8
-8	13/16x16	-8	1/2	1.33	1J143-8-8-SM
-10	1x14	-8	1/2	1.48	1J143-10-8
-10	1x14	-10	5/8	1.53	1J143-10-10
-10	1x14	-10	5/8	1.53	1J143-10-10-SM+
-10	1x14	-12	3/4	1.73	1J143-10-12
-12	1-3/16x12	-12	3/4	2.05	1J143-12-12
-12	1-13/16x16	-12	3/4	2.05	1J143-12-12-SM+
-16	1-7/16x12	-16	1	2.66	1J143-16-16
-20	1-5/8x12	-20	1-1/4	3.15	1J143-20-20
-24	2x12	-20	1-1/4	3.12	1J143-24-20^

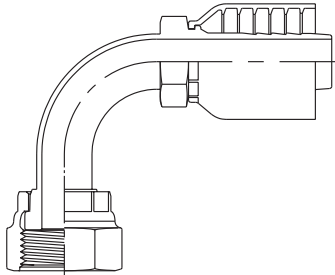
Fittings with “SM” suffix have metric hex.

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

Female “Seal-Lok” Swivel
90° Elbow (Medium)

1J543

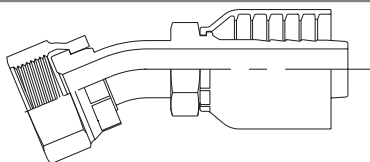


Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	1.51	1J543-4-4
-6	11/16x16	-4	1/4	1.42	1J543-6-4
-6	11/16x16	-4	1/4	1.38	1J543-6-4-SM+
-6	11/16x16	-6	3/8	1.36	1J543-6-6
-6	11/16x16	-6	3/8	1.36	1J543-6-6-SM
-8	13/16x16	-6	3/8	1.42	1J543-8-6
-8	13/16x16	-6	3/8	1.42	1J543-8-6-SM+
-8	13/16x16	-8	1/2	1.33	1J543-8-8
-8	13/16x16	-8	1/2	1.33	1J543-8-8-SM
-10	1x14	-8	1/2	1.48	1J543-10-8
-10	1x14	-10	5/8	1.53	1J543-10-10
-10	1x14	-10	5/8	1.53	1J543-10-10-SM+
-10	1x14	-12	3/4	1.70	1J543-10-12
-12	1-3/16x12	-12	3/4	2.05	1J543-12-12
-16	1-7/16x12	-16	1	3.27	1J543-16-16
-20	1-5/8x12	-20	1-1/4	3.20	1J543-20-20

+Non-standard.

Female “Seal-Lok” Swivel
22 1/2° Elbow

1J643

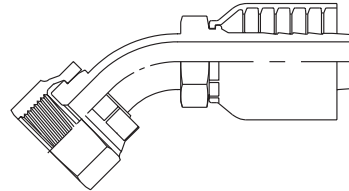


Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	13/16x16	-8	1/2	1.79	1J643-8-8
-10	1x14	-10	5/8	2.45	1J643-10-10+
-16	1-7/16x12	-16	1	2.53	1J643-16-16C+

+Non-standard.

Female “Seal-Lok” Swivel
45° Elbow

1J743



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	1.49	1J743-4-4
-4	9/16x18	-4	1/4	1.49	1J743-4-4-SM
-4	9/16x18	-6	3/8	1.20	1J743-4-6
-4	9/16x18	-6	3/8	1.20	1J743-4-6-SM+
-6	11/16x16	-4	1/4	1.55	1J743-6-4
-6	11/16x16	-4	1/4	1.55	1J743-6-4-SM
-6	11/16x16	-5	5/16	1.63	1J743-6-5
-6	11/16x16	-6	3/8	1.31	1J743-6-6
-6	11/16x16	-6	3/8	1.31	1J743-6-6-SM
-6	11/16x16	-8	1/2	1.41	1J743-6-8
-8	13/16x16	-4	1/4	1.81	1J743-8-4
-8	13/16x16	-6	3/8	1.58	1J743-8-6
-8	13/16x16	-6	3/8	1.58	1J743-8-6-SM
-8	13/16x16	-8	1/2	1.57	1J743-8-8
-8	13/16x16	-8	1/2	1.57	1J743-8-8-SM
-8	13/16x16	-10	5/8	1.51	1J743-8-10
-8	13/16x16	-10	5/8	1.51	1J743-8-10-SM+
-10	1x14	-8	1/2	1.67	1J743-10-8
-10	1x14	-8	1/2	1.67	1J743-10-8-SM+
-10	1x14	-10	5/8	1.73	1J743-10-10
-10	1x14	-10	5/8	1.73	1J743-10-10-SM+
-10	1x14	-12	3/4	1.93	1J743-10-12
-12	1-3/16x12	-8	1/2	2.32	1J743-12-8
-12	1-3/16x12	-8	1/2	2.31	1J743-12-8-SM+
-12	1-3/16x12	-10	5/8	2.18	1J743-12-10
-12	1-3/16x12	-12	3/4	2.19	1J743-12-12
-12	1-3/16x12	-12	3/4	2.19	1J743-12-12-SM
-12	1-3/16x12	-16	1	2.45	1J743-12-16
-12	1-3/16x12	-16	1	2.42	1J743-12-16-SM+
-16	1-7/16x12	-12	3/4	2.59	1J743-16-12
-16	1-7/16x12	-16	1	2.72	1J743-16-16
-16	1-7/16x12	-16	1	2.70	1J743-16-16C+
-16	1-7/16x12	-16	1	2.76	1J743-16-16-SM+
-16	1-7/16x12	-20	1-1/4	2.94	1J743-16-20
-20	1-11/16x12	-16	1	2.93	1J743-20-16
-20	1-11/16x12	-20	1-1/4	3.08	1J743-20-20
-20	1-11/16x12	-20	1-1/4	3.07	1J743-20-20-SM+
-24	2x12	-20	1-1/4	3.29	1J743-24-20^
-24	2x12	-24	1-1/2	3.34	1J743-24-24
-24	2x12	-24	1-1/2	3.30	1J743-24-24C+

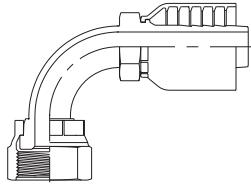
Fittings with “SM” suffix have metric hex.

^Must use Parkrimp 2 or Superkrimp and Die Part No. 83C-A20H.

+Non-standard.

Female “Seal-Lok” Swivel
90° Elbow (Short)

1J943



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	1.46	1J943-4-4
-4	9/16x18	-4	1/4	1.03	1J943-4-4C+
-4	9/16x18	-4	1/4	1.03	1J943-4-4-SM+
-4	9/16x18	-6	3/8	1.33	1J943-4-6
-6	11/16x16	-4	1/4	1.43	1J943-6-4
-6	11/16x16	-4	1/4	1.43	1J943-6-4-SM+
-6	11/16x16	-5	5/16	1.51	1J943-6-5
-6	11/16x16	-6	3/8	1.18	1J943-6-6
-6	11/16x16	-6	3/8	1.18	1J943-6-6-SM
-6	11/16x16	-8	1/2	1.28	1J943-6-8
-6	11/16x16	-8	1/2	1.28	1J943-6-8-SM
-8	13/16x16	-4	1/4	1.54	1J943-8-4
-8	13/16x16	-6	3/8	1.34	1J943-8-6
-8	13/16x16	-6	3/8	1.34	1J943-8-6-SM+
-8	13/16x16	-8	1/2	1.33	1J943-8-8
-8	13/16x16	-8	1/2	1.38	1J943-8-8C+
-8	13/16x16	-8	1/2	1.33	1J943-8-8-SM
-8	13/16x16	-10	5/8	1.38	1J943-8-10
-10	1x14	-8	1/2	1.48	1J943-10-8
-10	1x14	-8	1/2	1.48	1J943-10-8-SM+
-10	1x14	-10	5/8	1.53	1J943-10-10
-10	1x14	-10	5/8	1.53	1J943-10-10C+
-10	1x14	-10	5/8	1.53	1J943-10-10-SM
-10	1x14	-12	3/4	1.63	1J943-10-12
-10	1x14	-12	3/4	1.63	1J943-10-12-SM+
-12	1-13/16x12	-8	1/2	1.65	1J943-12-8
-12	1-13/16x12	-8	1/2	1.92	1J943-12-8C+
-12	1-3/16x12	-10	5/8	2.05	1J943-12-10
-12	1-3/16x12	-10	5/8	2.05	1J943-12-10-SM+
-12	1-3/16x12	-12	3/4	2.05	1J943-12-12
-12	1-3/16x12	-12	3/4	1.92	1J943-12-12C+
-12	1-3/16x12	-12	3/4	2.05	1J943-12-12-SM+
-12	1-3/16x12	-16	1	2.36	1J943-12-16
-12	1-3/16x12	-16	1	2.33	1J943-12-16-SM+
-16	1-7/16x12	-12	3/4	2.64	1J943-16-12
-16	1-7/16x12	-12	3/4	2.61	1J943-16-12C+
-16	1-7/16x12	-16	1	2.66	1J943-16-16
-16	1-7/16x12	-16	1	2.69	1J943-16-16-SM+
-16	1-7/16x12	-20	1-1/4	2.89	1J943-16-20
-20	1-11/16x12	-16	1	3.10	1J943-20-16
-20	1-11/16x12	-16	1	3.10	1J943-20-16C+
-20	1-11/16x12	-20	1-1/4	3.20	1J943-20-20
-20	1-11/16x12	-20	1-1/4	3.19	1J943-20-20-SM+
-24	2x12	-20	1-1/4	3.32	1J943-24-20^
-24	2x12	-24	1-1/2	4.14	1J943-24-24
-24	2x12	-24	1-1/2	4.11	1J943-24-24C+

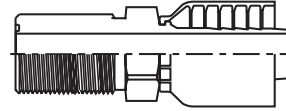
Fittings with “SM” suffix have metric hex.

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

Male “Seal-Lok”
Straight Bulkhead
without Nitrile O-ring

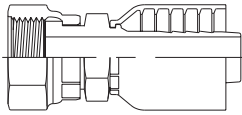
1JB43



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	1.84	1JB43-4-4
-6	11/16x16	-6	3/8	1.95	1JB43-6-6
-8	13/16x16	-6	3/8	2.11	1JB43-8-6
-8	13/16x16	-8	1/2	2.10	1JB43-8-8
-10	1x14	-8	1/2	2.32	1JB43-10-8
-10	1x14	-10	5/8	2.33	1JB43-10-10
-12	1-3/16x12	-12	3/4	2.43	1JB43-12-12

Female “Seal-Lok” Swivel Straight (Close Nut)

1JC43



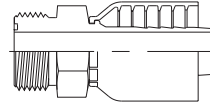
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	0.89	1JC43-4-4*
-4	9/16x18	-4	1/4	0.89	1JC43-4-4-SM
-4	9/16x18	-6	3/8	0.87	1JC43-4-6+*
-6	11/16x16	-4	1/4	0.92	1JC43-6-4
-6	11/16x16	-4	1/4	0.92	1JC43-6-4C+
-6	11/16x16	-4	1/4	0.93	1JC43-6-4-SM
-6	11/16x16	-5	5/16	1.01	1JC43-6-5
-6	11/16x16	-6	3/8	0.91	1JC43-6-6*
-6	11/16x16	-6	3/8	0.91	1JC43-6-6-SM
-6	11/16x16	-8	1/2	0.90	1JC43-6-8C+
-6	11/16x16	-8	1/2	0.90	1JC43-6-8-SM
-8	13/16x16	-6	3/8	0.98	1JC43-8-6
-8	13/16x16	-6	3/8	0.98	1JC43-8-6C+
-8	13/16x16	-6	3/8	0.98	1JC43-8-6-SM
-8	13/16x16	-8	1/2	0.96	1JC43-8-8*
-8	13/16x16	-8	1/2	0.96	1JC43-8-8-SM
-8	13/16x16	-10	5/8	0.95	1JC43-8-10+
-8	13/16x16	-12	3/4	0.97	1JC43-8-12+
-10	1x14	-8	1/2	1.05	1JC43-10-8
-10	1x14	-8	1/2	1.05	1JC43-10-8-SM
-10	1x14	-10	5/8	1.05	1JC43-10-10*
-10	1x14	-10	5/8	1.05	1JC43-10-10-SM
-10	1x14	-12	3/4	1.19	1JC43-10-12+
-12	1-3/16x12	-8	1/2	1.22	1JC43-12-8
-12	1-3/16x12	-8	1/2	1.22	1JC43-12-8-SM+
-12	1-3/16x12	-10	5/8	1.24	1JC43-12-10
-12	1-3/16x12	-10	5/8	1.24	1JC43-12-10-SM
-12	1-3/16x12	-12	3/4	1.24	1JC43-12-12*
-12	1-3/16x12	-12	3/4	1.24	1JC43-12-12-SM
-12	1-3/16x12	-16	1	1.34	1JC43-12-16
-16	1-7/16x12	-12	3/4	1.38	1JC43-16-12
-16	1-7/16x12	-12	3/4	1.39	1JC43-16-12-SM+
-16	1-7/16x12	-16	1	1.52	1JC43-16-16*
-16	1-7/16x12	-16	1	1.52	1JC43-16-16-SM+
-20	1-1/16x12	-16	1	1.46	1JC43-20-16-SM+
-20	1-11/16x12	-20	1-1/4	1.58	1JC43-20-20+
-20	1-11/16x12	-20	1-1/4	1.58	1JC43-20-20C
-20	1-11/16x12	-20	1-1/4	1.58	1JC43-20-20-SM+
-24	2x12	-24	1-1/2	1.61	1JC43-24-24C+

*Also available in 316 Stainless Steel. Use “C” suffix after part number. Stainless steel fittings must be crimped with Karrykrimp 2, Superkrimp or Parkrimp 2.

+Non-standard.

Male “Seal-Lok” Straight

1JM43

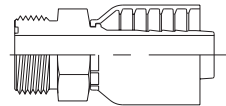


Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	0.99	1JM43-4-4
-6	11/16x16	-4	1/4	1.07	1JM43-6-4
-6	11/16x16	-4	1/4	1.06	1JM43-6-4-SM+
-6	11/16x16	-6	3/8	1.06	1JM43-6-6
-6	11/16x16	-6	3/8	1.06	1JM43-6-6-SM+
-8	13/16x16	-6	3/8	1.18	1JM43-8-6
-8	13/16x16	-6	3/8	1.17	1JM43-8-6-SM+
-8	13/16x16	-8	1/2	1.17	1JM43-8-8
-8	13/16x16	-8	1/2	1.17	1JM43-8-8-SM
-10	1x14	-8	1/2	1.35	1JM43-10-8
-10	1x14	-10	5/8	1.35	1JM43-10-10
-12	1-3/16x12	-8	1/2	1.44	1JM43-12-8+
-12	1-3/16x12	-10	5/8	1.34	1JM43-12-10
-12	1-3/16x12	-10	5/8	1.45	1JM43-12-10-SM+
-12	1-3/16x12	-12	3/4	1.46	1JM43-12-12
-12	1-3/16x12	-12	3/4	1.46	1JM43-12-12C+
-12	1-3/16x12	-12	3/4	1.45	1JM43-12-12-SM
-16	1-7/16x12	-12	3/4	1.48	1JM43-16-12
-16	1-7/16x12	-16	1	1.67	1JM43-16-16
-16	1-7/16x12	-16	1	1.66	1JM43-16-16-SM+
-20	1-11/16x12	-16	1	1.60	1JM43-20-16+
-20	1-11/16x12	-20	1-1/4	1.66	1JM43-20-20

+Non-standard.

Male “Seal-Lok” Straight with Nitrile O-ring

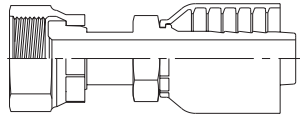
1J043



Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	0.99	1J043-4-4
-6	11/16x16	-6	3/8	1.06	1J043-6-6
-8	13/16x16	-6	3/8	1.18	1J043-8-6
-8	13/16x16	-8	1/2	1.17	1J043-8-8
-8	13/16x16	-8	1/2	1.17	1J043-8-8-SM
-10	1x14	-8	1/2	1.35	1J043-10-8
-10	1x14	-10	5/8	1.35	1J043-10-10
-12	1-3/16x12	-10	5/8	1.45	1J043-12-10
-12	1-3/16x12	-12	3/4	1.45	1J043-12-12
-12	1-3/16x12	-12	3/4	1.45	1J043-12-12-SM
-16	1-7/16x12	-12	3/4	1.48	1J043-16-12
-16	1-7/16x12	-16	1	1.67	1J043-16-16
-20	1-11/16x12	-20	1-1/4	1.66	1J043-20-20

Female “Seal-Lok” Swivel Straight

1JS43



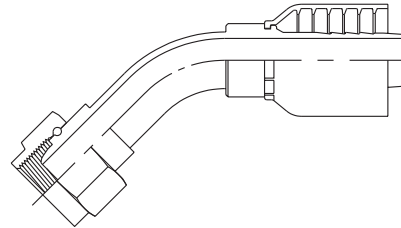
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	-4	1/4	1.33	1JS43-4-4
-4	9/16x18	-6	3/8	1.18	1JS43-4-6
-6	11/16x16	-4	1/4	1.40	1JS43-6-4
-6	11/16x16	-6	3/8	1.26	1JS43-6-6
-6	11/16x16	-8	1/2	1.25	1JS43-6-8
-8	13/16x16	-4	1/4	1.52	1JS43-8-4
-8	13/16x16	-6	3/8	1.51	1JS43-8-6
-8	13/16x16	-8	1/2	1.40	1JS43-8-8
-8	13/16x16	-10	5/8	1.46	1JS43-8-10
-8	13/16x16	-12	3/4	1.51	1JS43-8-12+
-10	1x14	-6	3/8	1.62	1JS43-10-6
-10	1x14	-8	1/2	1.64	1JS43-10-8
-10	1x14	-10	5/8	1.66	1JS43-10-10
-10	1x14	-12	3/4	1.65	1JS43-10-12
-12	1-3/16x12	-8	1/2	1.64	1JS43-12-8
-12	1-3/16x12	-10	5/8	1.75	1JS43-12-10
-12	1-3/16x12	-12	3/4	1.86	1JS43-12-12
-12	1-3/16x12	-12	3/4	1.87	1JS43-12-12C+
-12	1-3/16x12	-16	1	1.92	1JS43-12-16
-16	1-7/16x12	-12	3/4	1.94	1JS43-16-12
-16	1-7/16x12	-16	1	2.01	1JS43-16-16
-16	1-7/16x12	-20	1-1/4	2.39	1JS43-16-20
-20	1-11/16x12	-16	1	2.02	1JS43-20-16
-20	1-11/16x12	-20	1-1/4	2.08	1JS43-20-20
-24	2x12	-20	1-1/4	2.23	1JS43-24-20[^]
-24	2x12	-24	1-1/2	2.26	1JS43-24-24
-24	2x12	-32	2	2.59	1JS43-24-32+
-32	2-1/2x12	-32	2	2.94	1JS43-32-32+

[^]Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

BSP Swivel Female 45° Elbow Ballnose

1B143

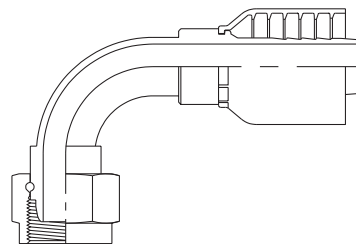


BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	1.54	1B143-4-4
-6	3/8x19	-4	1/4	1.94	1B143-6-4+
-6	3/8x19	-6	3/8	2.25	1B143-6-6
-8	1/2x14	-8	1/2	1.97	1B143-8-8
-10	5/8x14	-10	5/8	2.62	1B143-10-10
-12	3/4x14	-10	5/8	2.52	1B143-12-10
-12	3/4x14	-12	3/4	2.44	1B143-12-12
-16	1x11	-16	1	2.76	1B143-16-16

+Non-standard.

BSP Swivel Female 90° Elbow Ballnose

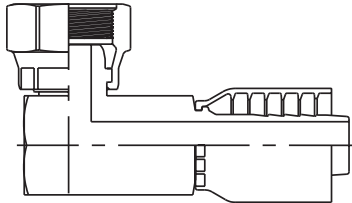
1B243



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	1.08	1B243-4-4
-6	3/8x19	-6	3/8	1.32	1B243-6-6
-8	1/2x14	-8	1/2	1.57	1B243-8-8
-10	5/8x14	-8	1/2	1.54	1B243-10-8
-10	5/8x14	-10	5/8	1.72	1B243-10-10
-12	3/4x14	-10	5/8	2.05	1B243-12-10
-12	3/4x14	-12	3/4	2.00	1B243-12-12
-16	1x11	-16	1	2.56	1B243-16-16
-20	1-1/4x11	-20	1-1/4	2.87	1B243-20-20

**BSP Swivel Female
90° Compact Ballnose**

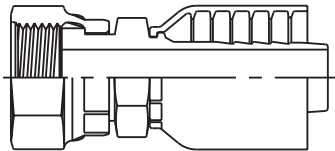
1B443



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	1.40	1B443-4-4
-6	3/8x19	-6	3/8	1.42	1B443-6-6
-8	1/2x14	-8	1/2	1.57	1B443-8-8
-12	3/4x14	-12	3/4	0.98	1B443-12-12

**BSP Swivel Female
Flat Face**

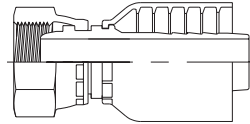
1B543



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-6	3/8x19	-6	3/8	0.98	1B543-6-6
-8	1/2x14	-6	3/8	1.03	1B543-8-6
-8	1/2x14	-8	1/2	1.02	1B543-8-8
-12	3/4x14	-12	3/4	1.19	1B543-12-12

BSP Swivel Female Ballnose

19243



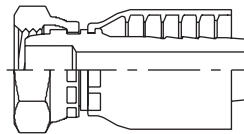
BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	0.92	19243-4-4
-6	3/8x19	-6	3/8	1.16	19243-6-6
-8	1/2x14	-8	1/2	1.03	19243-8-8
-10	5/8x14	-8	1/2	0.92	19243-10-8
-10	5/8x14	-10	5/8	0.95	19243-10-10
-12	3/4x14	-10	5/8	0.94	19243-12-10
-12	3/4x14	-12	3/4	1.09	19243-12-12
-16	1x11	-16	1	1.40	19243-16-16
-20	1-1/4x11	-16	1	2.20	19243-20-16+
-24	1-1/2x11	-24	1-1/2	2.95	19243-24-24+

+Non-standard.

**Female Metric Swivel DIN
20078 Straight Ball Nose**

1C043

Mates with DIN 7631 60° Cone



Metric Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M30x1.5	-12	3/4	0.94	1C043-20-12
M38x1.5	-16	1	1.14	1C043-25-16
M45x1.5	-20	1-1/4	1.46	1C043-32-20^+

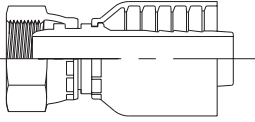
^Assemble with Parkrimp 2 only.

+Non-standard.

**Metric Swivel Female DIN
20078 Light Series**

1C343

Mates with EO "L" Series Fittings



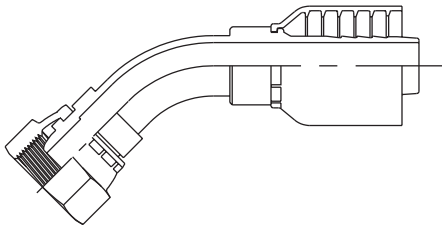
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	29	1C343-6-4
M14x1.5	8	-4	1/4	29	1C343-8-4
M16x1.5	10	-5	5/16	30	1C343-10-5
M16x1.5	10	-6	3/8	28	1C343-10-6
M18x1.5	12	-5	5/16	18	1C343-12-5
M18x1.5	12	-6	3/8	30	1C343-12-6
M22x1.5	15	-6	3/8	30	1C343-15-6+
M22x1.5	15	-8	1/2	33	1C343-15-8
M26x1.5	18	-10	5/8	31	1C343-18-10
M26x1.5	18	-12	3/4	35	1C343-18-12
M30x2	22	-12	3/4	36	1C343-22-12
M36x2	28	-16	1	45	1C343-28-16

+Non-standard.

**Metric Swivel Female DIN 20078 Light Series
45° Elbow**

1C443

Mates with EO "L" Series Fittings

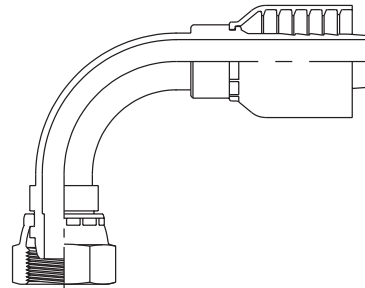


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size inch	Cut-Off Allow. mm	Part No.
M14x1.5	8	-4	1/4	38	1C443-8-4
M16x1.5	10	-5	5/16	41	1C443-10-5
M16x1.5	10	-6	3/8	41	1C443-10-6
M18x1.5	12	-6	3/8	41	1C443-12-6
M22x1.5	15	-8	1/2	50	1C443-15-8
M26x1.5	18	-10	5/8	64	1C443-18-10
M30x2	22	-12	3/4	56	1C443-22-12
M36x2	28	-16	1	71	1C443-28-16

**Metric Swivel Female DIN
20078 Light Series 90° Elbow**

1C543

Mates with EO "L" Series Fittings

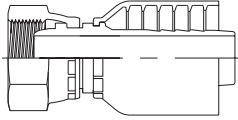


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size inch	Cut-Off Allow. mm	Part No.
M14x1.5	8	-4	1/4	30	1C543-6-4 1C543-8-4
M16x1.5	10	-5	5/16	31	1C543-10-5
M16x1.5	10	-6	3/8	36	1C543-10-6
M18x1.5	12	-6	3/8	36	1C543-12-6
M22x1.5	15	-8	1/2	40	1C543-15-8
M26x1.5	18	-10	5/8	52	1C543-18-10
M30x2	22	-12	3/4	51	1C543-22-12
M36x2	28	-16	1	65	1C543-28-16

Metric Swivel Female DIN 20078 Heavy Series

1C643

Mates with EO "S" Series Fittings



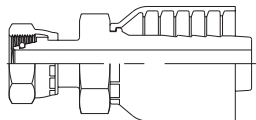
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M16x1.5	8	-4	1/4	30	1C643-8-4
M18x1.5	10	-4	1/4	30	1C643-10-4
M20x1.5	12	-5	5/16	30	1C643-12-5
M20x1.5	12	-6	3/8	34	1C643-12-6
M20x1.5	12	-8	1/2	33	1C643-12-8
M22x1.5	14	-6	3/8	34	1C643-14-6
M24x1.5	16	-8	1/2	35	1C643-16-8
M24x1.5	16	-8	1/2	24	1C643-16-8C-SA+
M30x2	20	-10	5/8	35	1C643-20-10
M30x2	20	-12	3/4	37	1C643-20-12
M36x2	25	-12	3/4	40	1C643-25-12
M36x2	25	-12	3/4	26	1C643-25-12C-SA+
M42x2	30	-16	1	50	1C643-30-16
M42x2	30	-16	1	32	1C643-30-16C-SA+

+Non-standard.

Metric Swivel Female DIN 20078 Heavy Series with O-Ring

1C943

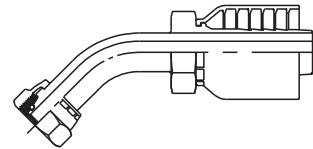
Mates with EO "S" Series Fittings



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M16x1.5	8	-4	1/4	30	1C943-8-4
M18x1.5	10	-4	1/4	30	1C943-10-4
M18x1.5	10	-6	3/8	21	1C943-10-6
M20x1.5	12	-5	5/16	25	1C943-12-5
M20x1.5	12	-6	3/8	26	1C943-12-6
M22x1.5	14	-6	3/8	30	1C943-14-6
M24x1.5	16	-8	1/2	29	1C943-16-8
M30x2	20	-10	5/8	31	1C943-20-10
M30x2	20	-12	3/4	31	1C943-20-12
M36x2	25	-12	3/4	31	1C943-25-12
M42x2	30	-16	1	41	1C943-30-16
M52x2	38	-20	1-1/4	43	1C943-38-20

Metric Swivel Female DIN 20078 Heavy Series 45° Elbow with O-Ring

10C43

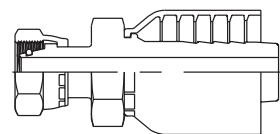


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size	Cut-Off Allow. mm	Part No.
M18x1.5	10	-4	1/4	53	10C43-10-4+
M20x1.5	12	-6	3/8	58	10C43-12-6
M22x1.5	14	-6	3/8	58	10C43-14-6+
M24x1.5	16	-8	1/2	69	10C43-16-8
M30x2	20	-10	5/8	86	10C43-20-10
M36x2	25	-12	3/4	61	10C43-25-12
M42x2	30	-16	1	73	10C43-30-16
M52x2	38	-20	1-1/4	48	10C43-38-20

+Non-standard.

Metric Swivel Female DIN 20078 Light Series Straight with O-Ring

1CA43



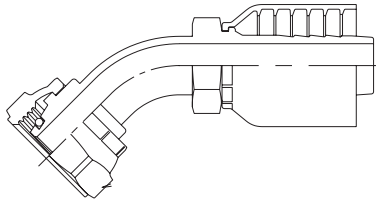
Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	27	1CA43-6-4
M14x1.5	8	-4	1/4	22	1CA43-8-4
M16x1.5	10	-5	5/16	21	1CA43-10-5
M18x1.5	12	-6	3/8	26	1CA43-12-6
M22x1.5	15	-8	1/2	29	1CA43-15-8
M26x1.5	18	-10	5/8	41	1CA43-18-10
M26x1.5	18	-10	5/8	41	1CA43-18-10C+
M26x1.5	18	-12	3/4	28	1CA43-18-12
M30x2	22	-12	3/4	33	1CA43-22-12
M36x2	28	-16	1	40	1CA43-28-16
M45x2	35	-20	1-1/4	39	1CA43-35-20

+Non-standard.

**Metric Swivel Female
DIN 20078 Light Series
45° Elbow with O-Ring**

1CE43

Mates with EO "L" Series Fittings

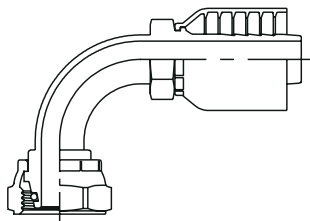


Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size	Cut-Off Allow. mm	Part No.
M16x1.5	10	-6	3/8	62	1CE43-10-6
M18x1.5	12	-6	3/8	44	1CE43-12-6
M22x1.5	15	-8	1/2	51	1CE43-15-8
M30x2	22	-12	3/4	58	1CE43-22-12

**Metric Swivel Female
DIN 20078 Light Series
90° Elbow with O-Ring**

1CF43

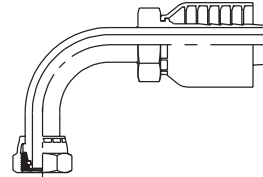
Mates with EO "L" Series Fittings



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size	Cut-Off Allow. mm	Part No.
M16x1.5	10	-5	5/16	37	1CF43-10-5
M16x1.5	10	-6	3/8	40	1CF43-10-6
M18x1.5	12	-6	3/8	36	1CF43-12-6
M22x1.5	15	-8	1/2	40	1CF43-15-8
M26x1.5	18	-10	5/8	43	1CF43-18-10
M30x2	22	-12	3/4	51	1CF43-22-12
M45x2	35	-20	1-1/4	73	1CF43-35-20

**Metric Swivel Female
DIN 20078 Heavy Series
90° Elbow with O-Ring**

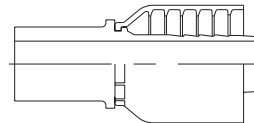
11C43



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size	Cut-Off Allow. mm	Part No.
M16x1.5	8	-4	1/4	36	11C43-8-4
M18x1.5	10	-4	1/4	43	11C43-10-4
M20x1.5	12	-5	5/16	38	11C43-12-5
M20x1.5	12	-6	3/8	35	11C43-12-6
M22x1.5	14	-6	3/8	34	11C43-14-6
M24x1.5	16	-8	1/2	43	11C43-16-8
M30x2	20	-10	5/8	52	11C43-20-10
M36x2	25	-12	3/4	56	11C43-25-12
M42x2	30	-16	1	67	11C43-30-16
M52x2	38	-20	1-1/4	76	11C43-38-20

**Metric Standpipe
Heavy Series**

13D43

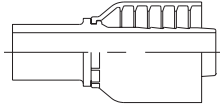


Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
6	-4	1/4	33	11D43-6-4^^^
8	-4	1/4	33	11D43-8-4^^^
10	-4	1/4	32	13D43-10-4
10	-4	1/4	37	13D43-10-4C+
12	-5	5/16	41	13D43-12-5
12	-6	3/8	35	11D43-12-6^^^
12	-8	1/2	37	13D43-12-8C+
14	-6	3/8	35	13D43-14-6
16	-8	1/2	36	13D43-16-8
20	-10	5/8	48	13D43-20-10
20	-12	3/4	40	13D43-20-12
20	-12	3/4	45	13D43-20-12C+
25	-12	3/4	44	13D43-25-12
30	-16	1	51	13D43-30-16
38	-24	1-1/2	61	13D43-38-24+

^^^11D43-8-4 and 11D43-12-6 are used in place of 13D43-8-4 and 13D43-12-6 and will accept the EO Heavy (S) Series Ferrules and Nuts.
+Non-standard.

Metric Standpipe Light Series

11D43

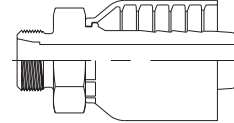


Tube Size R mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
6	-4	1/4	33	11D43-6-4
8	-4	1/4	33	11D43-8-4
10	-5	5/16	37	11D43-10-5
10	-6	3/8	29	11D43-10-6
12	-6	3/8	35	11D43-12-6
15	-8	1/2	31	11D43-15-8
18	-10	5/8	38	11D43-18-10
18	-12	3/4	31	11D43-18-12
22	-12	3/4	32	11D43-22-12
28	-16	1	37	11D43-28-16
42	-24	1-1/2	55	11D43-42-24+

+Non-standard.

Male Stud DIN 20078 Heavy Series

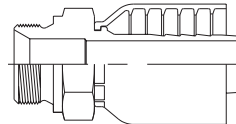
1D243



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M16x1.5	8	-4	1/4	22	1D243-8-4
M18x1.5	10	-4	1/4	22	1D243-10-4
M20x1.5	12	-5	5/16	33	1D243-12-5
M20x1.5	12	-6	3/8	24	1D243-12-6
M22x1.5	14	-6	3/8	25	1D243-14-6
M24x1.5	16	-8	1/2	30	1D243-16-8
M30x2	20	-10	5/8	37	1D243-20-10
M36x2	25	-12	3/4	33	1D243-25-12
M42x2	30	-16	1	39	1D243-30-16

Male BSP Parallel

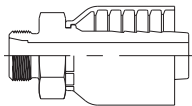
1D943



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	0.91	1D943-4-4
-6	3/8x19	-5	5/16	1.22	1D943-6-5
-6	3/8x19	-6	3/8	1.22	1D943-6-6
-8	1/2x14	-8	1/2	1.10	1D943-8-8
-12	3/4x14	-12	3/4	1.18	1D943-12-12
-16	1x11	-16	1	1.38	1D943-16-16

Male Stud DIN 20078 Light Series

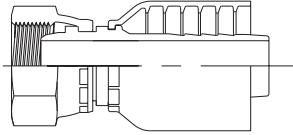
1D043



Metric Thread Size mm	Tube Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow. mm	Part No.
M12x1.5	6	-4	1/4	24	1D043-6-4
M14x1.5	8	-4	1/4	24	1D043-8-4
M16x1.5	10	-5	5/16	21	1D043-10-5
M16x1.5	10	-6	3/8	21	1D043-10-6
M18x1.5	12	-6	3/8	21	1D043-12-6
M22x1.5	15	-8	1/2	24	1D043-15-8
M26x1.5	18	-10	5/8	29	1D043-18-10
M26x1.5	18	-12	3/4	29	1D043-18-12
M30x2	22	-12	3/4	31	1D043-22-12
M36x2	28	-16	1	33	1D043-28-16

Female French Gaz

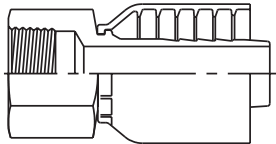
1F443



Thread Dash Size	Metric Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-27	M36x1.5	-12	3/4	1.14	1F443-27-12

Male French Gaz

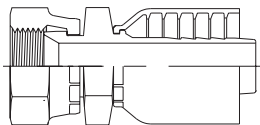
1GF43



Thread Dash Size	Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/2-27	-4	1/4	1.03	1GF43-4-4
-4	1/2-27	-6	3/8	1.02	1GF43-4-6

JIS /BSP 30° Flare Swivel Female

1FU43

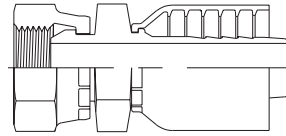


BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	1.24	1FU43-4-4
-4	1/4x19	-6	3/8	1.30	1FU43-4-6+
-6	3/8x19	-6	3/8	1.37	1FU43-6-6
-8	1/2x14	-8	1/2	1.47	1FU43-8-8
-12	3/4x14	-12	3/4	1.68	1FU43-12-12
-16	1x11	-16	1	1.92	1FU43-16-16
-20	1-1/4x11	-20	1-1/4	2.22	1FU43-20-20
32	2X11	-32	2	2.60	1FU43-32-32

+Non-standard.

JIS/BSP 60° Cone Swivel Female

1GU43

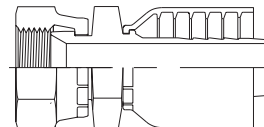


BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-2	1/8x28	-4	1/4	0.98	1GU43-2-4+
-4	1/4x19	-4	1/4	1.30	1GU43-4-4
-4	1/4x19	-6	3/8	1.29	1GU43-4-6+
-6	3/8x19	-4	1/4	1.10	1GU43-6-4+
-6	3/8x19	-5	5/16	1.18	1GU43-6-5+
-6	3/8x19	-6	3/8	1.38	1GU43-6-6
-6	3/8x19	-8	1/2	1.36	1GU43-6-8+
-8	1/2x14	-4	1/4	1.13	1GU43-8-4+
-8	1/2x14	-6	3/8	1.49	1GU43-8-6+
-8	1/2x14	-8	1/2	1.49	1GU43-8-8
-10	5/8x14	-8	1/2	1.54	1GU43-10-8+
-10	5/8x14	-10	5/8	1.56	1GU43-10-10+
-12	3/4x14	-8	1/2	1.73	1GU43-12-8+
-12	3/4x14	-10	5/8	1.74	1GU43-12-10+
-12	3/4x14	-12	3/4	1.74	1GU43-12-12
-16	1x11	-12	3/4	1.86	1GU43-16-12+
-16	1x11	-16	1	2.00	1GU43-16-16
-20	1-1/4x11	-20	1-1/4	2.36	1GU43-20-20
-32	2x11	-32	2	3.11	1GU43-32-32+

+Non-standard.

JIS Metric 30° Flare - Swivel Female

1MU43

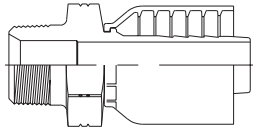


Metric Thread Dash Size	Metric Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	M14x1.5	-4	1/4	1.12	1MU43-4-4
-4	M14x1.5	-6	3/8	1.35	1MU43-4-6+
-4	M14x1.5	-8	1/2	1.30	1MU43-4-8+
-6	M18x1.5	-4	1/4	1.46	1MU43-6-4
-6	M18x1.5	-6	3/8	1.43	1MU43-6-6
-8	M22x1.5	-6	3/8	1.59	1MU43-8-6+
-8	M22x1.5	-8	1/2	1.37	1MU43-8-8
-8	M22x1.5	-10	5/8	1.58	1MU43-8-10+
-32	M60X2	-32	2	2.72	1MU43-32-32+

+Non-standard.

Male JIS /BSP Taper - 60°
Cone

1UT43

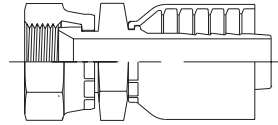


BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-4	1/4x19	-4	1/4	1.18	1UT43-4-4
-6	3/8x19	-4	1/4	1.24	1UT43-6-4+
-6	3/8x19	-5	5/16	1.32	1UT43-6-5+
-6	3/8x19	-6	3/8	1.24	1UT43-6-6
-6	3/8x19	-8	1/2	1.21	1UT43-6-8+
-8	1/2x14	-6	3/8	1.43	1UT43-8-6+
-8	1/2x14	-8	1/2	1.43	1UT43-8-8
-8	1/2x14	-10	5/8	1.44	1UT43-8-10+
-8	1/2x14	-12	3/4	1.54	1UT43-8-12+
-12	3/4x14	-8	1/2	1.52	1UT43-12-8+
-12	3/4x14	-10	5/8	1.54	1UT43-12-10+
-12	3/4x14	-12	3/4	1.53	1UT43-12-12
-12	3/4x14	-16	1	1.67	1UT43-12-16+
-16	1x11	-12	3/4	1.73	1UT43-16-12+
-16	1x11	-16	1	1.87	1UT43-16-16
-16	1x11	-20	1-1/4	1.90	1UT43-16-20+
-20	1-1/4x11	-20	1-1/4	2.10	1UT43-20-20
-20	1-1/4x11	-24	1-1/2	1.99	1UT43-20-24+

+Non-standard.

JIS Metric 30° Flare - Swivel
Female

1XU43

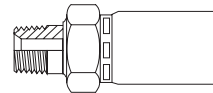


BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-10	M24x1.5	-8	1/2	1.80	1XU43-10-8+
-10	M24x1.5	-10	5/8	1.81	1XU43-10-10
-10	M24x1.5	-12	3/4	1.83	1XU43-10-12+
-10	M24x1.5	-20	1-1/4	2.09	1XU43-10-20+
-12	M30x1.5	-12	3/4	1.96	1XU43-12-12
-12	M30x1.5	-16	1	2.27	1XU43-12-16+
-16	M33x1.5	-12	3/4	2.28	1XU43-16-12+
-16	M33x1.5	-16	1	2.41	1XU43-16-16
-20	M36x1.5	-12	3/4	2.43	1XU43-20-12+
-20	M36x1.5	-16	1	2.44	1XU43-20-16+
-20	M36x1.5	-20	1-1/4	2.50	1XU43-20-20
-24	M42x1.5	-16	1	2.79	1XU43-24-16+
-24	M42x1.5	-20	1-1/4	2.85	1XU43-24-20+
-24	M42x1.5	-24	1-1/2	2.75	1XU43-24-24

+Non-standard.

Male Taper Pipe Rigid

10155

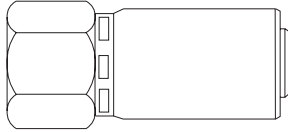


NPTF Thread	Hose I.D.	Use Pusher No.	Cut-Off Allow.	Part No.
1/8-27	1/8	PUM 001	3/4	10155-2-2
1/8-27	3/16	PUM 001	1 1/32	10155-2-3
1/8-27	1/4	PUM 002	1 1/32	10155-2-4
1/4-18	3/16	PUM 004	1 3/16	10155-4-3
1/4-18	1/4	PUM 004	1 3/16	10155-4-4
1/4-18	1/4	PUM 004	1 3/16	10155-4-4B*
1/4-18	5/16	PUM 004	1 5/16	10155-4-5
1/4-18	3/8	PUM 005	1 5/32	10155-4-6
3/8-18	3/16	PUM 005	1 5/16	10155-6-3
3/8-18	1/4	PUM 005	1 5/16	10155-6-4
3/8-18	5/16	PUM 005	1 5/16	10155-6-5
3/8-18	3/8	PUM 005	1 5/16	10155-6-6
3/8-18	1/2	PUM 008	1 9/16	10155-6-8
1/2-14	3/8	PUM 009	1 17/32	10155-8-6
1/2-14	1/2	PUM 009	1 17/32	10155-8-8
3/4-14	3/4	PUM 011	1 17/32	10155-12-12
1-11 1/2	1	PUM 013	1 3/4	10155-16-16

*Brass

Female Taper Pipe Rigid

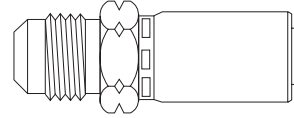
10255



NPTF Thread	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4-18	1/4	1 1/4	PUF 002	10255-4-4
3/8-18	1/4	1 15/32	PUF 005	10255-6-4
3/8-18	3/8	1 15/32	PUF 005	10255-6-6
1/2-14	3/8	1 3/8	PUF 007	10255-8-6
1/2-14	1/2	1 3/8	PUF 007	10255-8-8

Male SAE 45°

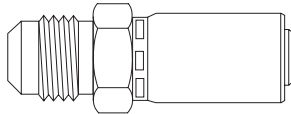
10455



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1 1/8	PUM 001	10455-4-3
1/2-20	5/16	1/4	1 3/16	PUM 002	10455-5-4
5/8-18	3/8	5/16	1 11/32	PUM 005	10455-6-5
5/8-18	3/8	3/8	1 11/32	PUM 005	10455-6-6
5/8-18	3/8	1/2	1 11/32	PUM 005	10455-6-8
3/4-16	1/2	1/2	1 15/32	PUM 008	10455-8-8
1 1/16-14	3/4	3/4	1 25/32	PUM 011	10455-12-12

Male JIC 37°

10355

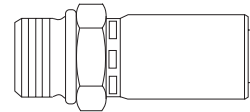


Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1 3/16	PUM 001	10355-4-3
7/16-20	1/4	1/4	1 3/16	PUM 002	10355-4-4
1/2-20	5/16	1/4	1 3/16	PUM 002	10355-5-4
1/2-20	5/16	5/16	1 3/16	PUM 002	10355-5-5
9/16-18	3/8	1/4	1 3/16	PUM 004	10355-6-4
9/16-18	3/8	5/16	1 3/16	PUM 004	10355-6-5
9/16-18	3/8	3/8	1 9/32	PUM 005	10355-6-6
3/4-16	1/2	3/8	1 3/8	PUM 007	10355-8-6
3/4-16	1/2	1/2	1 3/8	PUM 008	10355-8-8
7/8-14	5/8	1/2	1 9/16	PUM 009	10355-10-8
1 1/16-12	3/4	1/2	1 21/32	PUM 011	10355-12-8
1 1/16-12	3/4	3/4	1 21/32	PUM 011	10355-12-12
1 5/16-12	1	1	1 23/32	PUM 013	10355-16-16

Straight Thread O-Ring

10555

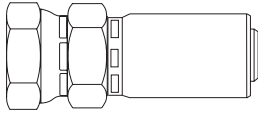
(Nitrile O-Ring Included)



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1	PUF 020	10555-4-3
7/16-20	1/4	1/4	1	PUF 021	10555-4-4
7/16-20	1/4	5/16	1	PUF 021	10555-4-5
1/2-20	5/16	1/4	1	PUF 021	10555-5-4
1/2-20	5/16	5/16	1	PUF 021	10555-5-5
9/16-18	3/8	1/4	1 1/32	PUF 022	10555-6-4
9/16-18	3/8	3/8	1 1/8	PUF 023	10555-6-6
3/4-16	1/2	3/8	1 5/32	PUF 024	10555-8-6
3/4-16	1/2	1/2	1 5/32	PUF 024	10555-8-8
7/8-14	5/8	1/2	1 9/32	PUF 019	10555-10-8

JIC 37° Swivel

10655

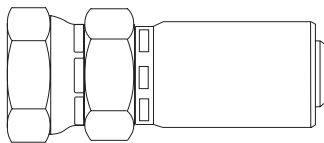


Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
3/8-24	3/16	1/8	1/2	PUF 017	10655-3-2
7/16-20	1/4	1/8	1 1/32	PUF 011	10655-4-2
7/16-20	1/4	3/16	1 1/4	PUF 011	10655-4-3
1/2-20	5/16	3/16	1 1/4	PUF 002	10655-5-3
7/16-20	1/4	1/4	1 3/8	PUF 010	10655-4-4
7/16-20	1/4	1/4		PUF 010	10655-4-4B*
1/2-20	5/16	1/4	1 3/8	PUF 013	10655-5-4
9/16-18	3/8	1/4	1 3/8	PUF 013	10655-6-4
9/16-18	3/8	1/4		PUF 013	10655-6-4B*
1/2-20	5/16	5/16	1 3/8	PUF 013	10655-5-5
9/16-18	3/8	5/16	1 3/8	PUF 013	10655-6-5
9/16-18	3/8	3/8	1 1/2	PUF 015	10655-6-6
9/16-18	3/8	3/8		PUF 015	10655-6-6B*
3/4-16	1/2	3/8	1 15/32	PUF 005	10655-8-6
9/16-18	3/8	1/2	1 15/32	PUF 015	10655-6-8
3/4-16	1/2	1/2	1 5/8	PUF 016	10655-8-8
7/8-14	5/8	1/2	1 5/8	PUF 006	10655-10-8
1 1/16-12	3/4	1/2	1 23/32	PUF 008	10655-12-8
7/8-14	5/8	3/4	1 11/16	PUF 006	10655-10-12
1 1/16-12	3/4	3/4	1 23/32	PUF 008	10655-12-12
1 5/16-12	1	1	1 15/32	PUF 009	10655-16-16

*Brass

Female Pipe Swivel

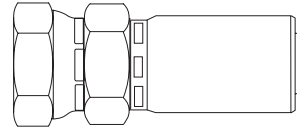
10755



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4-18	1/4	1/4	1 1/4	PUF 002	10755-4-4
1/4-18	1/4	5/16	1 3/8	PUF 013	10755-4-5
3/8-18	3/8	3/8	1 11/32	PUF 004	10755-6-6
1/2-14	1/2	1/2	1 1/2	PUF 018	10755-8-8
1-11 1/2	1	1	1 13/16	PUF 009	10755-16-16

SAE 45° Swivel

10855

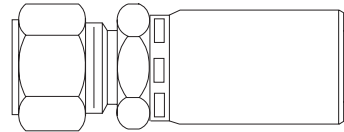


Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
5/8-18	3/8	1/4	1 3/8	PUF 003	10855-6-4
5/8-18	3/8	5/16	1 3/8	PUF 003	10855-6-5
5/8-18	3/8	3/8	1 1/2	PUF 014	10855-6-6
1 1/16-14	3/4	3/4	1 23/32	PUF 008	10855-12-12

Ferrul-Fix

11155

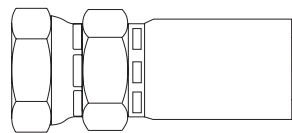
(Nut and Sleeve Included)



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	3/8	1/4	1 1/4	PUM 015	11155-6-4
9/16-18	3/8	3/8	1 1/4	PUM 015	11155-6-6
3/4-16	1/2	3/8	1 5/16	PUM 016	11155-8-6
3/4-16	1/2	1/2	1 11/32	PUM 016	11155-8-8
7/8-14	5/8	3/8	1 3/8	PUM 017	11155-10-6
7/8-14	5/8	1/2	1 13/32	PUM 017	11155-10-8

SAE Flareless Swivel

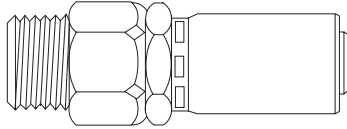
11255



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	3/8	1/4	1 15/32	PUF 015	11255-6-4
9/16-18	3/8	3/8	1 15/32	PUF 015	11255-6-6
3/4-16	1/2	3/8	1 9/16	PUF 025	11255-8-6
3/4-16	1/2	1/2	1 1/16	PUF 025	11255-8-8
7/8-14	5/8	1/2	1 11/16	PUF 026	11255-10-8

Male Pipe Swivel

11355

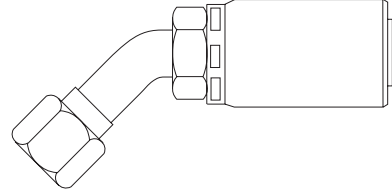


Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4-18	1/4	3/16	1 23/32	PUM 003	11355-4-3
1/4-18	1/4	1/4	1 23/32	PUM 003	11355-4-4
1/4-18	1/4	5/16	1 23/32	PUM 003	11355-4-5
3/8-18	3/8	3/8	1 13/16	PUM 006	11355-6-6
1/2-14	1/2	3/8	2 1/16	PUM 010	11355-8-6
1/2-14	1/2	1/2	2 1/16	PUM 010	11355-8-8
3/4-14	3/4	3/4	2 1/8	PUM 012	11355-12-12
1-11 1/2	1	1	2 13/16	PUT 012	11355-16-16

For use with petroleum based fluids. Fittings allow minor movement to relieve stress on hose but is not recommended for continued or extensive swiveling.

JIC 37° Swivel 45° Elbow

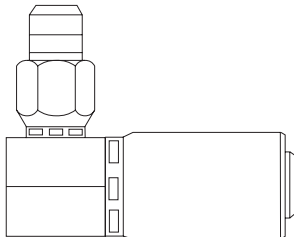
13755



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1 1/2	PUT 001	13755-4-3
7/16-20	1/4	1/4	1 1/2	PUT 002	13755-4-4
1/2-20	5/16	1/4	1 1/2	PUT 002	13755-5-4
9/16-18	3/8	5/16	1 9/16	PUT 002	13755-6-5
9/16-18	3/8	3/8	1 9/16	PUT 003	13755-6-6
3/4-16	1/2	3/8	1 27/32	PUT 003	13755-8-6
3/4-16	1/2	1/2	1 27/32	PUT 004	13755-8-8
7/8-14	5/8	1/2	1 29/32	PUT 004	13755-10-8
1 1/16-12	3/4	3/4	2 3/8	PUT 005	13755-12-12
1 5/16-12	1	1	2 5/16	PUT 007	13755-16-16

Male Pipe Swivel 90° Elbow

11L55

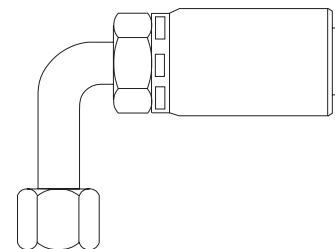


Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4-18	1/4	13/16	PUS 001	11L55-4-4

For use with petroleum based fluids. Fittings allow minor movement under pressure to relieve stress on hose but is not recommended for continued or extensive swiveling. Note: Use Crimp Die Ring 80C-R1L with Parkrimp 1 Machine; Crimp Die Ring 82C-R1L with KarryKrimp.

Female SAE (JIC) 37° Swivel 90° Elbow

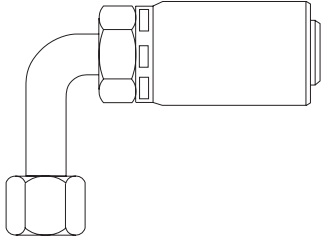
13955



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1 3/8	PUT 001	13955-4-3
7/16-20	1/4	1/4	1 3/8	PUT 002	13955-4-4
1/2-20	5/16	1/4	1 9/16	PUT 002	13955-5-4
9/16-18	3/8	5/16	1 1/2	PUT 002	13955-6-5
9/16-18	3/8	3/8	1 1/2	PUT 003	13955-6-6
3/4-16	1/2	3/8	1 5/8	PUT 003	13955-8-6
3/4-16	1/2	1/2	1 5/8	PUT 004	13955-8-8
7/8-14	5/8	1/2	1 3/4	PUT 004	13955-10-8
1 1/16-12	3/4	3/4	2 9/32	PUT 005	13955-12-12
1 5/16-12	1	1	2 9/16	PUT 007	13955-16-16

**SAE (JIC) 37° Swivel
90° Long Elbow**

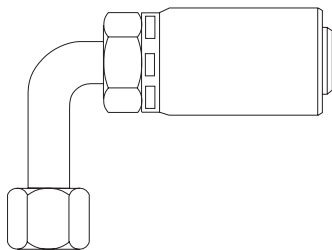
14155



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1 3/8	PUT 001	14155-4-3
7/16-20	1/4	1/4	1 3/8	PUT 002	14155-4-4
1/2-20	5/16	1/4	1 5/16	PUT 002	14155-5-4
9/16-18	3/8	5/16	1 3/8	PUT 002	14155-6-5
9/16-18	3/8	3/8	1 3/8	PUT 003	14155-6-6
3/4-16	1/2	3/8	1 23/32	PUT 003	14155-8-6
3/4-16	1/2	1/2	1 23/32	PUT 004	14155-8-8
7/8-14	5/8	1/2	1 27/32	PUT 004	14155-10-8
1 1/16-12	3/4	3/4	2 3/16	PUT 005	14155-12-12
1 5/16-12	1	1	2 3/8	PUT 007	14155-16-16

**SAE (JIC) 37° Swivel
90° Elbow Special**

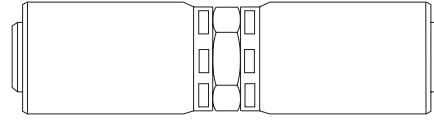
1L955



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-20	1/4	3/16	1 3/8	PUT 001	1L955-4-3
7/16-20	1/4	1/4	1 3/8	PUT 002	1L955-4-4
1/2-20	5/16	1/4	1 7/16	PUT 002	1L955-5-4
9/16-18	3/8	5/16	1 1/2	PUT 002	1L955-6-5
9/16-18	3/8	3/8	1 1/2	PUT 003	1L955-6-6
3/4-16	1/2	3/8	1 5/8	PUT 003	1L955-8-6
3/4-16	1/2	1/2	1 5/8	PUT 004	1L955-8-8
7/8-14	5/8	1/2	2 1/8	PUT 004	1L955-10-8
1 1/16-12	3/4	3/4	2 17/32	PUT 005	1L955-12-12
1 5/16-12	1	1	2 3/4	PUT 007	1L955-16-16

Permanent Hose Spicer

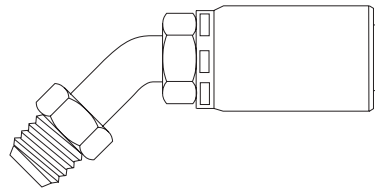
15555



Hose I.D.	Part No.
3/16	15555-3-3
1/4	15555-4-4
5/16	15555-5-5
3/8	15555-6-6
1/2	15555-8-8
3/4	15555-12-12
1	15555-16-16

**SAE Male Inverted Swivel
45° Elbow**

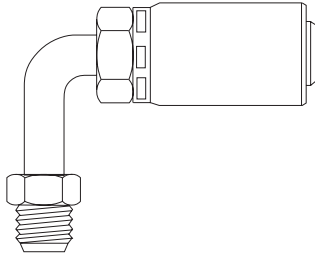
16755



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
5/8-18	3/8	3/8	2 1/8	PUT 003	16755-6-6

**SAE Male Inverted Swivel
90° Elbow**

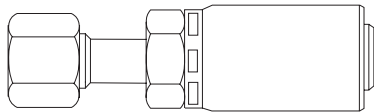
16955



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/16-24	1/4	1/4	1 5/8	PUT 002	16955-4-4
5/8-18	3/8	3/8	1 3/4	PUT 003	16955-6-6

Seal-Lok Straight

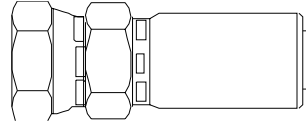
1JS55



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	1/4	3/16	1 1/2	PUT 002	1JS55-4-3
9/16-18	1/4	1/4	1 1/2	PUT 002	1JS55-4-4
11/16-16	3/8	1/4	1 1/2	PUT 003	1JS55-6-4
9/16-18	1/4	5/16	1 1/2	PUT 002	1JS55-4-5
11/16-16	3/8	5/16	1 1/2	PUT 003	1JS55-6-5
11/16-16	3/8	3/8	1 1/2	PUT 003	1JS55-6-6
13/16-16	1/2	3/8	1 5/8	PUT 004	1JS55-8-6
13/16-16	1/2	1/2	1 5/8	PUT 004	1JS55-8-8
1-14	5/8	5/8	1 7/8	PUT 005	1JS55-10-10
1 3/16-12	3/4	3/4	2	PUT 005	1JS55-12-12
1 7/16-12	1	1	1 1/16	PUT 007	1JS55-16-16

Seal-Lok Straight

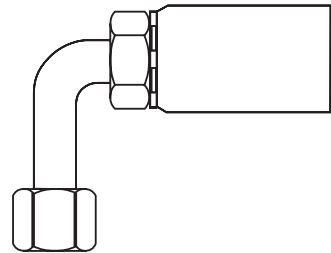
1JC55



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	1/4	3/16	1 1/16	PUL 001	1JC55-4-3
9/16-18	1/4	1/4	1 1/16	PUL 001	1JC55-4-4
11/16-16	3/8	1/4	1 3/32	PUL 002	1JC55-6-4
9/16-18	1/4	5/16	1 1/16	PUL 001	1JC55-4-5
11/16-16	3/8	5/16	1 3/32	PUL 002	1JC55-6-5
11/16-16	3/8	3/8	1 3/32	PUL 002	1JC55-6-6
13/16-16	1/2	3/8	1 3/16	PUL 003	1JC55-8-6
13/16-16	1/2	1/2	1 3/16	PUL 003	1JC55-8-8
1-14	5/8	5/8	1 3/8	PUL 004	1JC55-10-10
1 3/16-12	3/4	3/4	1 7/16	PUL 006	1JC55-12-12
1 7/16-12	1	1	1 1/2	PUL 008	1JC55-16-16

Seal-Lok 90° Elbow (Long)

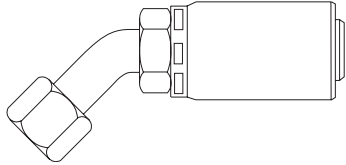
1J155



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	1/4	3/16	1 5/16	PUT 002	1J155-4-3
9/16-18	1/4	1/4	1 5/16	PUT 002	1J155-4-4
9/16-18	1/4	5/16	1 5/16	PUT 002	1J155-4-5
11/16-16	3/8	5/16	1 5/8	PUT 003	1J155-6-5
11/16-16	3/8	3/8	1 5/8	PUT 003	1J155-6-6
13/16-16	1/2	3/8	1 21/32	PUT 004	1J155-8-6
13/16-16	1/2	1/2	1 21/32	PUT 004	1J155-8-8
1-14	5/8	5/8	2	PUT 005	1J155-10-10
1 3/16-12	3/4	3/4	2 5/32	PUT 005	1J155-12-12
1 7/16-12	1	1	2 3/8	PUT 007	1J155-16-16

Seal-Lok 45° Elbow

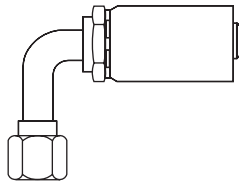
1J755



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	1/4	1/4	1 17/32	PUT 002	1J755-4-4
11/16-16	3/8	3/8	1 21/32	PUT 003	1J755-6-6
13/16-16	1/2	1/2	1 15/16	PUT 004	1J755-8-8
1 3/16-12	3/4	3/4	1 63/64	PUT 005	1J755-12-12
1 7/16-12	1	1	2 7/8	PUT 007	1J755-16-16

Seal-Lok 90° Elbow

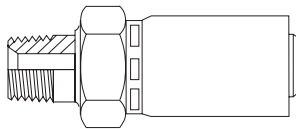
1J955



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	1/4	1/4	1 23/64	PUT 002	1J955-4-4
11/16-16	3/8	3/8	1 17/32	PUT 003	1J955-6-6
13/16-16	1/2	1/2	1 21/32	PUT 004	1J955-8-8
1 3/16-12	3/4	3/4	2 9/64	PUT 005	1J955-12-12
1 7/16-12	1	1	2 51/64	PUT 007	1J955-16-16

Male JIS/BSPT

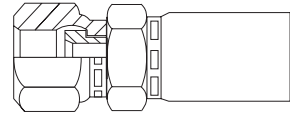
1UT55



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4-19	1/4	32	PUM 005	1UT55-4-4
3/8-19	3/8	32	PUM 008	1UT55-6-6
1/2-14	1/2	38	PUM 506	1UT55-8-8
3/4-14	3/4	40	PUM 510	1UT55-12-12
1-11	1	46	PUM 020	1UT55-16-16

Female Swivel JIS/BSP Pipe (30° Flare Seat)

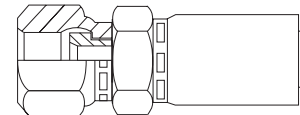
1FU55



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
PF 1/4-19	1/4	32	PUF 002	1FU55-4-4
PF 3/8-19	3/8	33	PUF 004	1FU55-6-6
PF 1/2-14	1/2	41	PUF 006	1FU55-8-8
PF 3/4-14	3/4	44	PUF 009	1FU55-12-12
PF 1-11	1	48	PUF 030	1FU55-16-16

Female JIS/Metric Pipe Swivel Straight

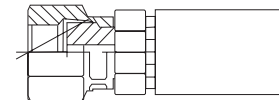
1MU55



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M14 x 1.5	1/4	32	PUF 002	1MU55-4-4
M18 x 1.5	3/8	33	PUF 004	1MU55-6-6
M22 x 1.5	1/2	40	PUF 031	1MU55-8-8
M27 x 2.0	3/4	44	PUF 032	1MU55-12-12
M33 x 2.0	1	48	PUF 033	1MU55-16-16

Female Swivel JIS/BSP Pipe (30° Cone Seat)

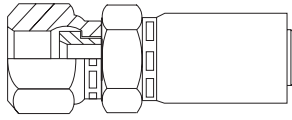
1GU55



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
PF 1/4-19	1/4	32	PUF 002	1GU55-4-4
PF 3/8-19	3/8	33	PUF 004	1GU55-6-6
PF 1/2-14	1/2	41	PUF 006	1GU55-8-8
PF 3/4-14	3/4	44	PUF 009	1GU55-12-12
PF 1-11	1	48	PUF 030	1GU55-16-16

**Metric Swivel DIN 20078
Heavy Series**

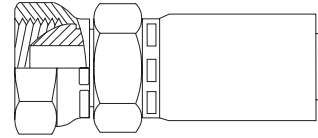
1C655



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M16 x 1.5	3/16	28	PUF 503	1C655-8-3
M18 x 1.5	1/4	30	PUF 505	1C655-10-4
M20 x 1.5	5/16	31	PUF 505	1C655-12-5
M22 x 1.5	3/8	31	PUF 505	1C655-14-6
M24 x 1.5	1/2	33	PUF 506	1C655-16-8
M30 x 2	3/4	37	PUF 507	1C655-20-12
M36 x 2	3/4	39	PUF 508	1C655-25-12
M42 x 2	1	39	PUF 509	1C655-30-16

**Male Stud DIN 20078
Heavy Series**

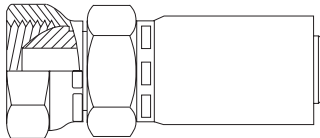
1D255



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M16 x 1.5	8	3/16	27	PUM 503	1D255-8-3
M18 x 1.5	10	1/4	28	PUM 504	1D255-10-4
M20 x 1.5	12	5/16	30	PUM 505	1D255-12-5
M22 x 1.5	14	3/8	32	PUM 507	1D255-14-6
M24 x 1.5	16	1/2	32	PUM 507	1D255-16-8
M30 x 2	20	3/4	33	PUM 510	1D255-20-12
M36 x 2	25	3/4	35	PUM 511	1D255-25-12
M42 x 2	30	1	35	PUM 512	1D255-30-16

**Male Stud DIN 20078 Light
Series**

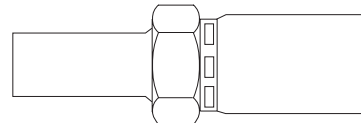
1D055



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M12 x 1.5	6	3/16	25	PUM 502	1D055-6-3
M14 x 1.5	8	1/4	25	PUM 503	1D055-8-4
M16 x 1.5	10	5/16	26	PUM 503	1D055-10-5
M16 x 1.5	10	3/8	26	PUM 503	1D055-10-6
M18 x 1.5	12	3/8	27	PUM 504	1D055-12-6
M22 x 1.5	15	1/2	30	PUM 507	1D055-15-8
M26 x 1.5	18	3/4	30	PUM 509	1D055-18-12
M30 x 2	22	3/4	31	PUM 510	1D055-22-12
M36 x 2	28	1	31	PUM 511	1D055-28-16

**Metric Standpipe Light
Series**

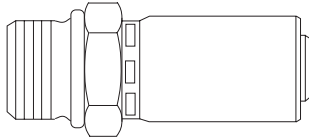
11D55



"T" Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
6	3/16	32	PUM 501	11D55-6-3
8	1/4	36	PUM 502	11D55-8-4
10	5/16	37	PUM 502	11D55-10-5
10	3/8	37	PUM 502	11D55-10-6
12	3/8	38	PUM 503	11D55-12-6
15	1/2	41	PUM 504	11D55-15-8
18	3/4	39	PUM 508	11D55-18-12
22	3/4	45	PUM 508	11D55-22-12
28	1	47	PUM 511	11D55-28-16

Male BSPP

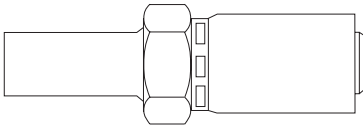
1D955



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4	1/4	26	PUM 503	1D955-4-4
3/8	5/16	27	PUM 504	1D955-6-5
3/8	3/8	27	PUM 504	1D955-6-6
1/2	1/2	31	PUM 506	1D955-8-8
3/4	3/4	34	PUM 509	1D955-12-12
1	1	35	PUM 511	1D955-16-16

Metric Standpipe Heavy Series

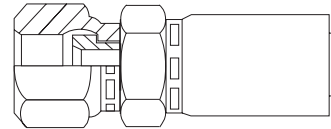
13D55



"T" Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
8	3/16	35	PUM 501	13D55-8-3
10	1/4	39	PUM 502	13D55-10-4
12	5/16	41	PUM 502	13D55-12-5
12	3/8	40	PUM 503	13D55-12-6
14	3/8	44	PUM 503	13D55-14-6
16	1/2	46	PUM 504	13D55-16-8
20	3/4	41	PUM 508	13D55-20-12
25	3/4	43	PUM 508	13D55-25-12
30	1	52	PUM 511	13D55-30-16

BSP Swivel

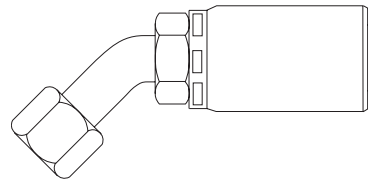
19255



BSP Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4	3/16	28	PUF 033	19255-4-3
1/4	1/4	26	PUF 003	19255-4-4
3/8	5/16	27	PUF 503	19255-6-5
3/8	3/8	27	PUF 503	19255-6-6
1/2	1/2	31	PUF 505	19255-8-8
5/8	1/2	34	PUF 506	19255-10-8
3/4	3/4	35	PUF 507	19255-12-12
1	1	39	PUF 508	19255-16-16

BSP Swivel 45° Elbow

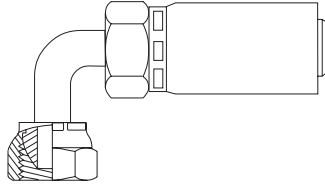
1B155



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4	1/4	1/4	39	PUT 002	1B155-4-4
3/8	3/8	5/16	41	PUT 002	1B155-6-5
3/8	3/8	3/8	41	PUT 003	1B155-6-6
1/2	1/2	1/2	47	PUT 008	1B155-8-8
5/8	5/8	1/2	48	PUT 008	1B155-10-8
3/4	3/4	3/4	56	PUT 005	1B155-12-12
1	1	1	63	PUT 007	1B155-16-16

BSP Swivel 90° Elbow

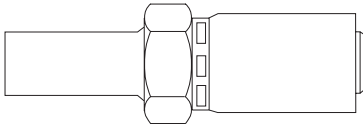
1B255



Thread Size	Tube OD	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/4	1/4	1/4	32	PUT 002	1B255-4-4
3/8	3/8	5/16	36	PUT 002	1B255-6-5
3/8	3/8	3/8	37	PUT 003	1B255-6-6
1/2	1/2	1/2	40	PUT 008	1B255-8-8
5/8	5/8	1/2	40	PUT 005	1B255-10-8
3/4	3/4	3/4	52	PUT 005	1B255-12-12
1	1	1	60	PUT 007	1B255-16-16

French Metric Standpipe Gas Series

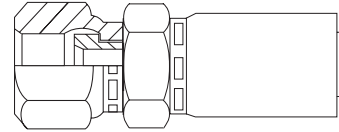
1GE55



"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
13.25	5/16	40	PUM 503	1GE55-13-5
13.25	3/8	40	PUM 503	1GE55-13-6
16.75	1/2	42	PUM 504	1GE55-17-8
21.25	1/2	45	PUM 506	1GE55-21-8
26.75	3/4	46	PUM 509	1GE55-27-12
33.50	1	46	PUM 511	1GE55-33-16

French Metric Swivel

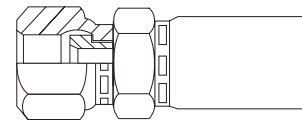
1F955



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M12 x 1	6	3/16	25	PUF 001	1F955-6-3
M14 x 1.5	8	1/4	27	PUF 001	1F955-8-4
M16 x 1.5	10	1/4	30	PUF 005	1F955-10-4
M16 x 1.5	10	5/16	27	PUF 503	1F955-10-5
M18 x 1.5	12	3/8	29	PUF 005	1F955-12-6
M20 x 1.5	14	3/8	31	PUF 505	1F955-14-6
M22 x 1.5	15	1/2	31	PUF 505	1F955-15-8
M24 x 1.5	16	1/2	33	PUF 506	1F955-16-8
M27 x 1.5	18	3/4	34	PUF 506	1F955-18-12
M27 x 1.5	20	3/4	37	PUF 507	1F955-20-12
M30 x 1.5	22	3/4	38	PUF 507	1F955-22-12
M33 x 1.5	25	3/4	39	PUF 508	1F955-25-12
M39 x 1.5	30	1	39	PUF 509	1F955-30-16

French Metric Swivel Gas Series

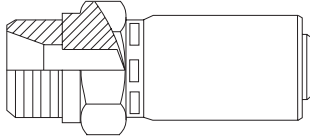
1F455



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M20 x 1.5	13.25	5/16	32	PUF 007	1F455-13-5
M20 x 1.5	13.25	3/8	31	PUF 007	1F455-13-6
M24 x 1.5	16.75	1/2	40	PUF 506	1F455-17-8
M30 x 1.5	21.25	1/2	38	PUF 507	1F455-21-8
M36 x 1.5	26.75	3/4	39	PUF 508	1F455-27-12
M45 x 1.5	33.50	1	42	PUF 509	1F455-33-16

French Metric Male Stud Gas Series

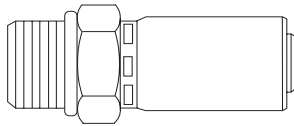
1FG55



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M20 x 1.5	13.25	5/16	27	PUM 505	1FG55-13-5
M20 x 1.5	13.25	3/8	27	PUM 505	1FG55-13-6
M24 x 1.5	16.75	1/2	29	PUM 507	1FG55-17-8
M30 x 1.5	21.25	1/2	31	PUM 510	1FG55-21-8
M36 x 1.5	26.75	3/4	31	PUM 511	1FG55-27-12
M45 x 1.5	33.50	1	42	PUM 508	1FG55-33-16

Male Taper Pipe Rigid

10158

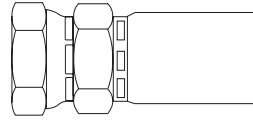


NPTF Thread	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1/8-27	1/8	3/4	PUM 001	10158-2-2
1/4-18	3/8	1 5/16	PUM 005	10158-4-6*
3/8-18	3/8	1 5/16	PUM 005	10158-6-6
3/8-18	1/2	1 5/16	PUM 008	10158-6-8
1/2-14	3/8	1 9/16	PUM 009	10158-8-6
1/2-14	1/2	1 17/32	PUM 009	10158-8-8
3/4-14	3/4	1 17/32	PUM 011	10158-12-12
1-11 1/2	1	1 3/4	PUM 013	10158-16-16

See Price List 4460 for additional 58 Series parts.

Female Taper Pipe Rigid

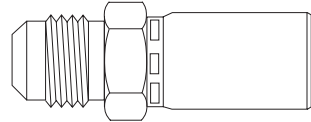
10258



NPTF "T" Thread	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
3/8-18	3/8	1 15/32	PUF 005	10258-6-6
1/2-14	3/8	1 3/8	PUF 007	10258-8-6
1/2-14	1/2	1 3/8	PUF 007	10258-8-8

Male JIC 37°

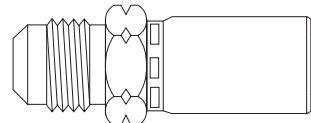
10358



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	3/8	3/8	1 9/32	PUM 005	10358-6-6
3/4-16	1/2	3/8	1 5/16	PUM 008	10358-8-6
3/4-16	1/2	1/2	1 3/8	PUM 008	10358-8-8
3/4-16	1/2	5/8	1 3/8	PUM 014	10358-8-10
7/8-14	5/8	1/2	1 17/32	PUM 009	10358-10-8
7/8-14	5/8	5/8	1 17/32	PUM 014	10358-10-10
1 1/16-12	3/4	5/8	1 21/32	PUM 011	10358-12-10
1 1/16-12	3/4	3/4	1 21/32	PUM 011	10358-12-12
1 5/16-12	1	1	1 23/32	PUM 013	10358-16-16

Male SAE 45°

10458

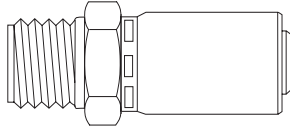


Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
5/8-18	3/8	3/8	1 11/32	PUM 005	10458-6-6
5/8-18	3/8	1/2	1 11/32	PUM 005	10458-6-8
3/4-16	1/2	1/2	1 15/32	PUM 008	10458-8-8
1 1/16-14	3/4	3/4	1 25/32	PUM 011	10458-12-12

Straight Thread O-Ring

10558

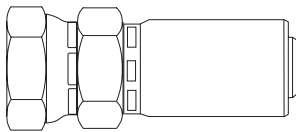
(Nitrile O-Ring Included)



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	3/8	3/8	1 1/8	PUF 023	10558-6-6
3/4-16	1/2	3/8	1 5/32	PUF 024	10558-8-6
3/4-16	1/2	1/2	1 5/32	PUF 024	10558-8-8
7/8-14	5/8	1/2	1 9/32	PUF 019	10558-10-8
1 1/16-12	3/4	5/8	1 9/32	PUF 028	10558-12-10

JIC 37° Swivel

10658

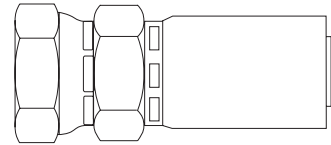


Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Stainless Steel Part No.	Part No.
3/8-24	3/16	1/8	1 1/32	PUF 017		10658-3-2
7/16-20	1/4	1/8	1 1/32	PUF 011		10658-4-2
9/16-18	3/8	3/8	1 15/32	PUF 015		10658-6-6
3/4-16	1/2	3/8	1 15/32	PUF 005		10658-8-6
3/4-16	1/2	1/2	1 5/8	PUF 016		10658-8-8
7/8-14	5/8	1/2	1 5/8	PUF 006		10658-10-8
3/4-16	1/2	5/8	1 21/32	PUF 016		10658-8-10
7/8-14	5/8	5/8	1 5/8	PUF 006		10658-10-10
1 1/16-12	3/4	5/8	1 23/32	PUF 008		10658-12-10
1 1/16-12	3/4	3/4	1 23/32	PUF 008	10658-12-12C	10658-12-12
1 5/16-12	1	1	1 25/32	PUF 009	10658-16-16C	10658-16-16

316 Stainless Nipple, Nut,

Female Pipe Swivel

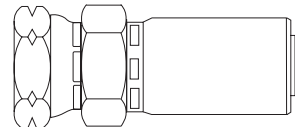
10758



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
3/8-18	3/8	3/8	1 11/32	PUF 004	10758-6-6
1/2-14	1/2	1/2	1-1/2	PUF 018	10758-8-8
1-11 1/2	1	1	1 13/16	PUF 009	10758-16-16

SAE 45° Swivel

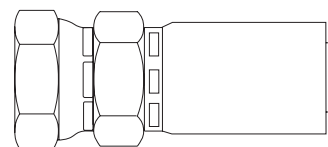
10858



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
5/8-18	3/8	3/8	1 1/2	PUF 014	10858-6-6
1 1/16-14	3/4	3/4	1 23/32	PUF 008	10858-12-12

SAE Flareless Swivel

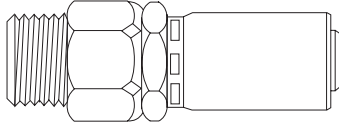
11258



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1 1/16-12	3/4	3/4	1 23/32	PUF 008	11258-12-12

Male Pipe Swivel

11358

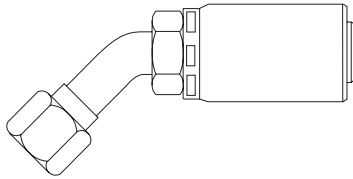


Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
3/8-18	3/8	3/8	1 13/16	PUM 006	11358-6-6
1/2-14	1/2	1/2	2 1/16	PUM 010	11358-8-8
3/4-14	3/4	3/4	2 1/8	PUM 012	11358-12-12
1-11 1/2	1	1	2 13/16	PUM 012	11358-16-16

For use with petroleum based fluids. Note: Fittings allow minor movement under pressure to relieve stress on hose, but is not recommended for continued or extensive swiveling.

JIC 37° Swivel 45° Elbow

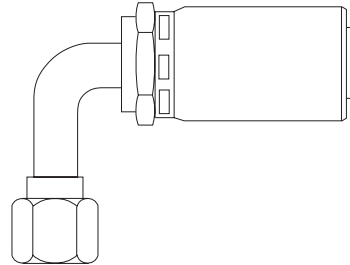
13758



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	3/8	3/8	1 9/16	PUT 003	13758-6-6
3/4-16	1/2	3/8	1 27/32	PUT 003	13758-8-6
3/4-16	1/2	1/2	1 27/32	PUT 004	13758-8-8
7/8-14	5/8	1/2	1 29/32	PUT 004	13758-10-8
7/8-14	5/8	5/8	1 3/4	PUT 013	13758-10-10
1 1/16-12	3/4	5/8	2 1/16	PUT 013	13758-12-10
1 1/16-12	3/4	3/4	2 3/8	PUT 005	13758-12-12
1 5/16-12	1	1	2 5/16	PUT 007	13758-16-16

Female SAE JIC 37° Swivel
90° Elbow

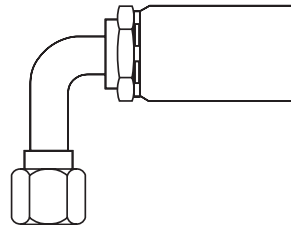
13958



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
7/8-14	5/8	5/8	1 3/4	PUT 013	13958-10-10
1 1/16-12	3/4	3/4	2 9/32	PUT 005	13958-12-12
1 5/16-12	1	1	2 9/16	PUT 007	13958-16-16

JIC 37° Swivel 90° Elbow
Medium

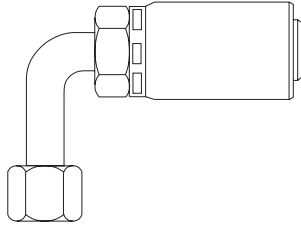
1L958



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1 1/16-12	3/4	3/4	2 17/32	PUT 005	1L958-12-12
1 5/16-12	1	1	2 3/4	PUT 007	1L958-16-16

JIC 37° Swivel 90° Elbow - Long

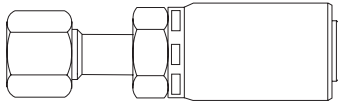
14158



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
9/16-18	3/8	3/8	1 3/8	PUT 003	14158-6-6
3/4-16	1/2	3/8	1 23/32	PUT 003	14158-8-6
3/4-16	1/2	1/2	1 23/32	PUT 004	14158-8-8
7/8-14	5/8	1/2	1 27/32	PUT 004	14158-10-8
7/8-14	5/8	5/8	1 3/4	PUT 013	14158-10-10
1 1/16-12	3/4	5/8	1 15/16	PUT 013	14158-12-10
1 1/16-12	3/4	3/4	2 3/16	PUT 005	14158-12-12
1 5/16-12	1	1	2 3/8	PUT 007	14158-16-16

Seal-Lok Straight

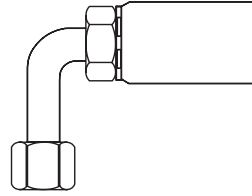
1JS58



Thread Size	"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1-14	5/8	5/8	1 13/16	PUT 013	1JS58-10-10
1 3/16-12	3/4	3/4	2 5/32	PUT 005	1JS58-12-12
1 7/16-12	1	1	2 1/4	PUT 007	1JS58-16-16

Seal-Lok 90° Short Elbow

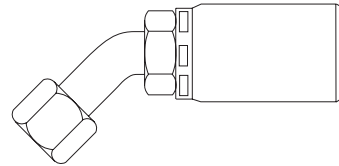
1J158



Thread Size	"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1-14	5/8	5/8	1 5/8	PUT 013	1J158-10-10
1 3/16-12	3/4	3/4	2 3/16	PUT 005	1J158-12-12
1 7/16-12	1	1	2 3/8	PUT 007	1J158-16-16

Seal-Lok 45° Elbow

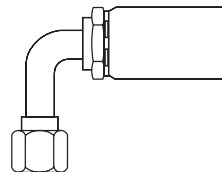
1J758



Thread Size	"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1-14	5/8	5/8	2 1/32	PUT 013	1J758-10-10
1 3/16-12	3/4	3/4	2	PUT 005	1J758-12-12
1 7/16-12	1	1	2 7/8	PUT 007	1J758-16-16

Seal-Lok 90° Elbow

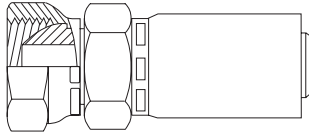
1J958



Thread Size	"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
1-14	5/8	5/8	1 5/8	PUT 013	1J958-10-10
1 3/16-12	3/4	3/4	2 5/32	PUT 005	1J958-12-12
1 7/16-12	1	1	1 13/16	PUT 007	1J958-16-16

**Metric Swivel DIN 20078
Heavy Series**

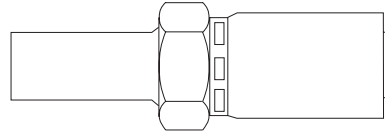
1C658



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M30 x 2	3/4	37	PUF 507	1C658-20-12
M36 x 2	3/4	39	PUF 508	1C658-25-12
M42 x 2	1	39	PUF 508	1C658-30-16

Metric Standpipe Light Series

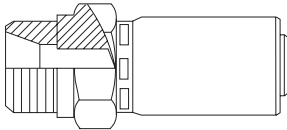
11D58



"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
18	3/4	39	PUM 508	11D58-18-12
22	3/4	45	PUM 508	11D58-22-12
28	1	47	PUM 511	11D58-28-16

**Male Stud DIN 20078
Light Series**

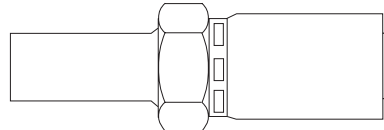
1D058



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M26 x 1.5	18	3/4	30	PUM 509	1D058-18-12
M30 x 2	22	3/4	31	PUM 510	1D058-22-12
M36 x 2	28	1	31	PUM 511	1D058-28-16

Metric Standpipe Heavy Series

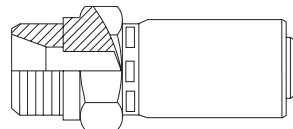
13D58



"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
20	3/4	41	PUM 508	13D58-20-12
25	3/4	43	PUM 508	13D58-25-12
30	1	52	PUM 511	13D58-30-16

**Male Stud DIN 20078
Heavy Series**

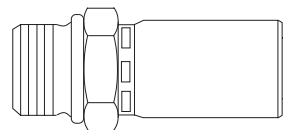
1D258



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M30 x 2	20	3/4	33	PUM 510	1D258-20-12
M36 x 2	25	3/4	35	PUM 511	1D258-25-12
M42 x 2	30	1	35	PUM 512	1D258-30-16

Male BSPP

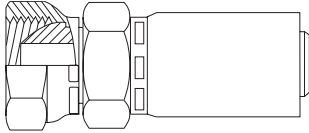
1D958



Thread Size	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
3/4	3/4	34	PUM 509	1D958-12-12
1	1	35	PUM 511	1D958-16-16

BSP Swivel

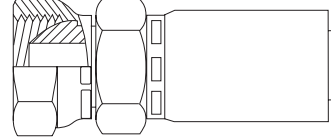
19258



BSP Thread Size	Hose I.D. Inch	Cut-Off Allow.	Use Pusher No.	Part No.
3/4	3/4	35	PUF 507	19258-12-12
1	1	39	PUF 508	19258-16-16

French Metric Swivel

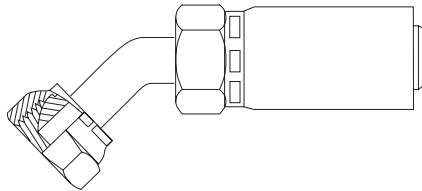
1F958



Thread Size	Tube O.D.	Hose I.D. Inch	Cut-Off Allow.	Use Pusher No.	Part No.
M30 x 1.5	22	3/4	38	PUF 507	1F958-22-12
M33 x 1.5	25	3/4	39	PUF 508	1F958-25-12
M39 x 1.5	30	1	39	PUF 509	1F958-30-16

BSP Swivel 45° Elbow

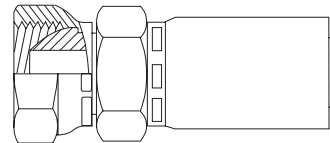
1B158



Thread Size	Tube O.D.	Hose I.D. Inch	Cut-Off Allow.	Use Pusher No.	Part No.
3/4	3/4	3/4	56	PUT 005	1B158-12-12
1	1	1	63	PUT 007	1B158-16-16

French Metric Swivel Gas Series

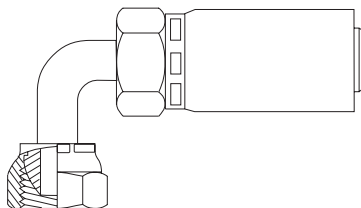
1F458



Thread Size	Tube O.D.	Hose I.D. Inch	Cut-Off Allow.	Use Pusher No.	Part No.
M36 x 1.5	26.75	3/4	39	PUF 508	1F458-27-12
M45 x 1.5	33.50	1	42	PUF 509	1F458-33-16

BSP Swivel 90° Elbow

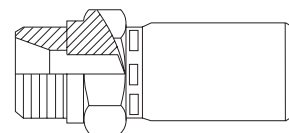
1B258



Thread Size Inch	Tube O.D. Inch	Hose I.D. Inch	Cut-Off Allow.	Use Pusher No.	Part No.
3/4	3/4	3/4	52	PUT 005	1B258-12-12
1	1	1	60	PUT 007	1B258-16-16

French Metric Male Stud Gas Series

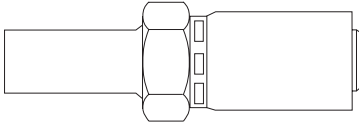
1FG58



Thread Size	Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
M36 x 1.5	26.75	3/4	31	PUM 511	1FG58-27-12
M45 x 1.5	33.50	1	42	PUM 508	1FG58-33-16

French Metric Standpipe Gas Series

1GE58

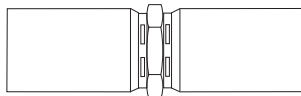


"T" Tube O.D.	Hose I.D.	Cut-Off Allow.	Use Pusher No.	Part No.
26.75	3/4	46	PUM 509	1GE58-27-12
33.50	1	46	PUM 511	1GE58-33-16

Permanent Hose Splicer

15858

Hose I.D.	Part No.
3/4	15858-12-12
1	15858-16-16



Reusable Hose Splicer

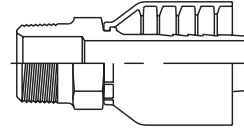
2SHSH

Hose I.D.	Part No.
3/4	2SHSH-12-12
1	2SHSH-16-16



Male NPTF Pipe

10171



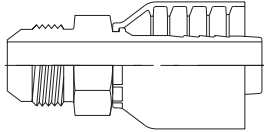
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	1/4x18	-6	3/8	1.38	10171-4-6+*
-6	3/8x18	-6	3/8	1.47	10171-6-6
-6	3/8x18	-12	3/4	1.47	10171-6-12+
-8	1/2x14	-6	3/8	1.48	10171-8-6C+
-8	1/2x14	-8	1/2	1.63	10171-8-8
-8	1/2x14	-10	5/8	1.69	10171-8-10+
-12	3/4x14	-8	1/2	1.47	10171-12-8
-12	3/4x14	-8	1/2	1.47	10171-12-8C+
-12	3/4x14	-12	3/4	1.71	10171-12-12
-12	3/4x14	-16	1	1.80	10171-12-16+*
-16	1x11-1/2	-8	1/2	1.87	10171-16-8+
-16	1x11-1/2	-12	3/4	1.72	10171-16-12
-16	1x11-1/2	-16	1	2.04	10171-16-16
-16	1x11-1/2	-20	1-1/4	2.03	10171-16-20+*
-20	1-1/4x11-1/2	-16	1	1.90	10171-20-16
-20	1-1/4x11-1/2	-20	1-1/4	2.39	10171-20-20
-20	1-1/4x11-1/2	-20	1-1/4	2.39	10171-20-20C+
-24	1-1/2x11-1/2	-20	1-1/4	2.10	10171-24-20
-24	1-1/2x11-1/2	-24	1-1/2	2.19	10171-24-24
-32	2x11-1/2	-32	2	2.52	10171-32-32
-32	2x11-1/2	-32	2	2.52	10171-32-32C+

*Also available in 316 stainless steel. Add "C" to part no.
Example: 10171-4-6C.

+Non-standard.

Male JIC 37°

10371

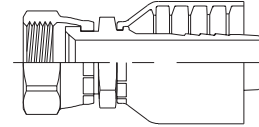


Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	1/4	-6	3/8	1.36	10371-4-6+
-5	1/2x20	5/16	-6	3/8	1.36	10371-5-6+
-6	9/16x18	3/8	-6	3/8	1.55	10371-6-6
-6	9/16x18	3/8	-8	1/2	1.37	10371-6-8+
-8	3/4x16	1/2	-6	3/8	1.4	10371-8-6
-8	3/4x16	1/2	-8	1/2	1.47	10371-8-8
-10	7/8x14	5/8	-8	1/2	1.41	10371-10-8
-10	7/8x14	5/8	-10	5/8	1.69	10371-10-10
-12	1-1/16x12	3/4	-12	3/4	1.81	10371-12-12
-12	1-1/16x12	3/4	-12	3/4	1.81	10371-12-12C+
-14	1-3/16x12	7/8	-12	3/4	1.73	10371-14-12
-16	1-5/16x12	1	-12	3/4	1.66	10371-16-12
-16	1-5/16x12	1	-16	1	2.03	10371-16-16
-20	1-5/8x12	1-1/4	-12	3/4	1.76	10371-20-12+
-20	1-5/8x12	1-1/4	-16	1	1.84	10371-20-16
-20	1-5/8x12	1-1/4	-20	1-1/4	2.27	10371-20-20
-20	1-5/8x12	1-1/4	-20	1-1/4	2.27	10371-20-20C+
-24	1-7/8x12	1-1/2	-24	1-1/2	1.93	10371-24-24+
-32	2-1/2x12	2	-32	2	2.76	10371-32-32+

+Non-standard.

JIC 37° Swivel

10671



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	9/16x18	3/8	-6	3/8	1.39	10671-6-6
-6	9/16x18	3/8	-8	1/2	1.36	10671-6-8+
-8	3/4x16	1/2	-6	3/8	1.58	10671-8-6~
-8	3/4x16	1/2	-8	1/2	1.41	10671-8-8~
-8	3/4x16	1/2	-12	3/4	1.45	10671-8-12~+
-8	3/4x16	1/2	-16	1	1.65	10671-8-16~+
-10	7/8x14	5/8	-8	1/2	1.64	10671-10-8~
-10	7/8x14	5/8	-10	5/8	1.58	10671-10-10~
-10	7/8x14	5/8	-12	3/4	1.54	10671-10-12~
-12	1-1/16x12	3/4	-8	1/2	1.58	10671-12-8
-12	1-1/16x12	3/4	-10	5/8	1.75	10671-12-10
-12	1-1/16x12	3/4	-12	3/4	1.60	10671-12-12
-12	1-1/16x12	3/4	-16	1	1.67	10671-12-16
-14	1-3/16x12	7/8	-12	3/4	1.61	10671-14-12
-16	1-5/16x12	1	-12	3/4	1.92	10671-16-12
-16	1-5/16x12	1	-16	1	2.01	10671-16-16
-16	1-5/8x12	1	-20	1-1/4	3.81	10671-16-20+
-20	1-5/8x12	1-1/4	-16	1	2.21	10671-20-16
-20	1-5/8x12	1-1/4	-20	1-1/4	2.25	10671-20-20
-24	1-7/8x12	1-1/2	-20	1-1/4	2.43	10671-24-20^
-24	1-7/8x12	1-1/2	-24	1-1/2	2.50	10671-24-24
-32	2-1/2x12	2	-20	1-1/4	2.93	10671-32-20+
-32	2-1/2x12	2	-24	1-1/2	3.02	10671-32-24+
-32	2-1/2x12	2	-32	2	3.19	10671-32-32

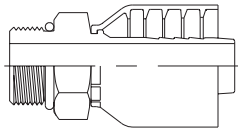
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

Straight Thread O-Ring

10571



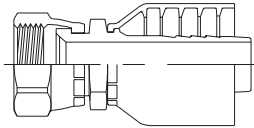
Thread Dash Size	Thread Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	9/16x18	-8	1/2	1.11	10571-6-8+
-8	3/4x16	-8	1/2	1.25	10571-8-8
-8	3/4x16	-8	1/2	1.25	10571-8-8C+
-8	3/4x16	-10	5/8	1.29	10571-8-10+
-10	7/8x14	-8	1/2	1.14	10571-10-8
-10	7/8x14	-8	1/2	1.14	10571-10-8C+
-10	7/8x14	-10	5/8	1.43	10571-10-10+
-10	7/8x14	-12	3/4	1.40	10571-10-12+
-12	1-1/16x12	-12	3/4	1.43	10571-12-12
-12	1-1/16x12	-12	3/4	1.43	10571-12-12C+
-16	1-5/16x12	-16	1	1.77	10571-16-16
-16	1-5/16x12	-16	1	1.77	10571-16-16C+
-20	1-5/8x12	-20	1-1/4	2.00	10571-20-20
-20	1-5/8x12	-20	1-1/4	2.00	10571-20-20C+

O-Ring not compatible with Phosphate Ester Fluids.

+Non-standard.

JIC 37° Swivel Stainless Steel

10671



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	7/16x20	1/4	-6	3/8	1.29	10671-4-6C~+
-5	1/2x20	5/16	-6	3/8	1.37	10671-5-6C~+
-6	9/16x18	3/8	-6	3/8	1.39	10671-6-6C+
-8	3/4x16	1/2	-8	1/2	1.41	10671-8-8C~
-8	3/4x16	1/2	-12	3/4	1.45	10671-8-12C~+
-10	7/8x14	5/8	-6	3/8	1.63	10671-10-6C~+
-12	1-1/16x12	3/4	-12	3/4	1.60	10671-12-12C
-12	1-1/16x12	3/4	-16	1	1.67	10671-12-16C+
-16	1-5/16x12	1	-12	3/4	1.91	10671-16-12C+
-16	1-5/16x12	1	-16	1	2.01	10671-16-16C
-20	1-5/8x12	1-1/4	-20	1-1/4	2.25	10671-20-20C
-24	1-7/8x12	1-1/2	-20	1-1/4	2.44	10671-24-20C^+
-24	1-7/8x12	1-1/2	-24	1-1/2	2.50	10671-24-24C
-32	2-1/2x12	2	-32	2	3.19	10671-32-32C+

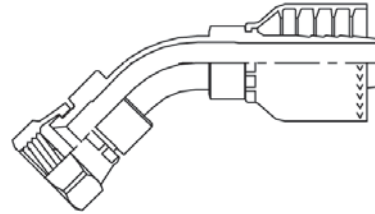
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

JIC 37° Swivel 45° Elbow

13771



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	9/16x18	3/8	-6	3/8	1.44	13771-6-6
-6	9/16x18	3/8	-8	1/2	1.38	13771-6-8+
-8	3/4x16	1/2	-8	1/2	1.62	13771-8-8~
-10	7/8x14	5/8	-8	1/2	1.72	13771-10-8~
-10	7/8x14	5/8	-10	5/8	1.83	13771-10-10~
-12	1-1/16x12	3/4	-8	1/2	1.88	13771-12-8+
-12	1-1/16x12	3/4	-10	5/8	2.28	13771-12-10+
-12	1-1/16x12	3/4	-12	3/4	2.26	13771-12-12
-16	1-5/16x12	1	-16	1	2.61	13771-16-16
-20	1-5/8x12	1-1/4	-20	1-1/4	3.53	13771-20-20
-24	1-7/8x12	1-1/2	-24	1-1/2	3.60	13771-24-24+
-32	2-1/2x12	2	-32	2	5.98	13771-32-32+

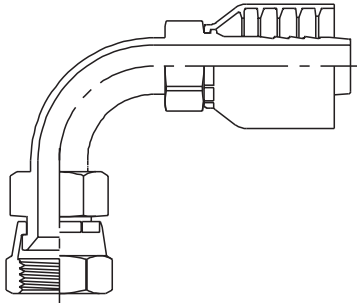
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

^Must use Parkrimp 2 or Superkrimp and die part no. 83C-A20.

+Non-standard.

JIC 37° Swivel 90° Elbow - Short

13971



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	9/16x18	3/8	-6	3/8	1.31	13971-6-6
-8	3/4x16	1/2	-6	3/8	1.62	13971-8-6~+*
-8	3/4x16	1/2	-8	1/2	1.38	13971-8-8~
-10	7/8x14	5/8	-8	1/2	1.53	13971-10-8~
-12	1-1/16x12	3/4	-10	5/8	2.15	13971-12-10+
-14	1-1/16x12	3/4	-12	3/4	2.11	13971-12-12
-14	1-1/16x12	3/4	-12	3/4	2.39	13971-12-12C+
-12	1-1/16x12	3/4	-16	1	2.35	13971-12-16+
-12	1-3/16x12	7/8	-12	3/4	2.26	13971-14-12+
-16	1-5/16x12	1	-16	1	2.58	13971-16-16
-20	1-5/8x12	1-1/4	-20	1-1/4	3.11	13971-20-20
-24	1-7/8x12	1-1/2	-24	1-1/2	4.14	13971-24-24
-32	2-1/2x12	2	-32	2	5.69	13971-32-32+

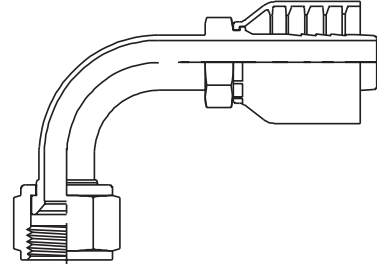
~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

*Also available in 316 stainless steel. Add "C" to part no. Example: 13971-8-6C.

+Non-standard.

JIC 37° Swivel 90° Elbow - Medium

1L971



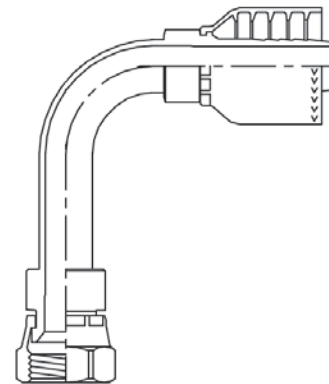
Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-10	7/8x14	5/8	-8	1/2	2.04	1L971-10-8~
-16	1-5/16x12	1	-16	1	2.82	1L971-16-16+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

JIC 37° Swivel 90° Elbow - Long

14171



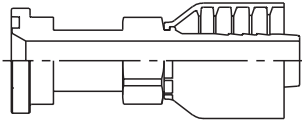
Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	9/16x18	3/8	-6	3/8	1.44	14171-6-6
-8	3/4x16	1/2	-8	1/2	1.37	14171-8-8~
-12	1-1/16x14	3/4	-12	3/4	2.11	14171-12-12
-16	1-5/16x12	1	-16	1	2.58	14171-16-16
-20	1-5/8x12	1-1/4	-20	1-1/4	3.13	14171-20-20+

~These fittings contain a dual seat that accepts both the JIC (37°) and SAE (45°) male configurations. The other sizes accept the JIC (37°) male configuration only.

+Non-standard.

**SAE Code 61 Flange
Straight**

11571



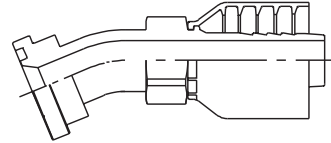
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	1-3/16	-6	3/8	1.23	11571-8-6+
-8	1/2	1-3/16	-8	1/2	2.27	11571-8-8
-8	1/2	1-3/16	-8	1/2	2.27	11571-8-8C+
-10	5/8	1-11/32	-8	1/2	3.20	11571-10-8C-1P+
-10	5/8	1-11/32	-10	5/8	3.32	11571-10-10
-12	3/4	1-1/2	-8	1/2	2.16	11571-12-8
-12	3/4	1-1/2	-10	5/8	3.26	11571-12-10
-12	3/4	1-1/2	-12	3/4	2.48	11571-12-12
-12	3/4	1-1/2	-12	3/4	2.48	11571-12-12C+
-16	1	1-3/4	-12	3/4	1.36	11571-16-12
-16	1	1-3/4	-12	3/4	1.36	11571-16-12C+
-16	1	1-3/4	-16	1	2.55	11571-16-16
-16	1	1-3/4	-16	1	2.55	11571-16-16C+
-16	1	1-3/4	-20	1-1/4	3.72	11571-16-20+
-20	1-1/4	2	-12	3/4	2.54	11571-20-12
-20	1-1/4	2	-16	1	1.58	11571-20-16
-20	1-1/4	2	-16	1	1.99	11571-20-16C+
-20	1-1/4	2	-20	1-1/4	3.01	11571-20-20
-20	1-1/4	2	-20	1-1/4	3.10	11571-20-20C+
-20	1-1/4	2	-24	1-1/2	3.22	11571-20-24
-24	1-1/2	2-3/8	-16	1	2.79	11571-24-16
-24	1-1/2	2-3/8	-16	1	2.77	11571-24-16C+
-24	1-1/2	2-3/8	-20	1-1/4	3.11	11571-24-20[^]
-24	1-1/2	2-3/8	-24	1-1/2	3.27	11571-24-24
-24	1-1/2	2-3/8	-32	2	3.45	11571-24-32
-32	2	2-13/16	-20	1-1/4	3.08	11571-32-20[^]
-32	2	2-13/16	-24	1-1/2	1.82	11571-32-24
-32	2	2-13/16	-32	2	3.45	11571-32-32
-32	2	2-13/16	-32	2	3.45	11571-32-32C+
-40	2-1/2	3-5/16	-32	2	2.31	11571-40-32

[^]Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

+Non-standard.

**SAE Code 61 Flange 22 1/2°
Elbow**

11671



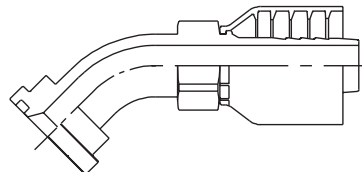
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	1-3/16	-8	1/2	2.00	11671-8-8+
-12	3/4	1-1/2	-12	3/4	2.54	11671-12-12
-16	1	1-3/4	-12	3/4	2.53	11671-16-12
-16	1	1-3/4	-16	1	2.67	11671-16-16
-20	1-1/4	2	-16	1	2.77	11671-20-16
-20	1-1/4	2	-20	1-1/4	3.00	11671-20-20
-24	1-1/2	2-3/8	-20	1-1/4	3.01	11671-24-20[^]
-24	1-1/2	2-3/8	-24	1-1/2	3.69	11671-24-24
-32	2	2-13/16	-24	1-1/2	4.04	11671-32-24+
-32	2	2-13/16	-32	2	5.22	11671-32-32
-40	2-1/2	3-5/16	-32	2	5.21	11671-40-32

[^]Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

+Non-standard.

**SAE Code 61 Flange 45°
Elbow**

11771



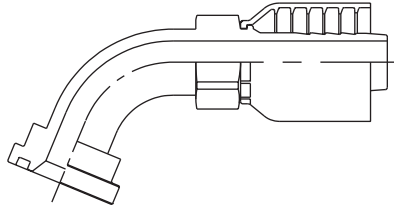
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	1-3/16	-6	3/8	2.26	11771-8-6+
-10	5/8	1-3/4	-8	1/2	2.03	11771-10-8+
-10	5/8	1-3/4	-10	5/8	3.29	11771-10-10
-12	3/4	1-1/2	-8	1/2	2.07	11771-12-8
-12	3/4	1-1/2	-10	5/8	2.70	11771-12-10
-12	3/4	1-1/2	-12	3/4	2.45	11771-12-12
-12	3/4	1-1/2	-12	3/4	2.42	11771-12-12C+
-16	1	1-3/4	-8	1/2	2.06	11771-16-8
-16	1	1-3/4	-12	3/4	2.73	11771-16-12
-16	1	1-3/4	-16	1	3.13	11771-16-16
-20	1-1/4	2	-16	1	2.95	11771-20-16
-20	1-1/4	2	-20	1-1/4	3.38	11771-20-20
-20	1-1/4	2	-24	1-1/2	4.03	11771-20-24
-24	1-1/2	2-3/8	-20	1-1/4	3.37	11771-24-20[^]
-24	1-1/2	2-3/8	-24	1-1/2	4.03	11771-24-24
-32	2	2-13/16	-24	1-1/2	4.01	11771-32-24
-32	2	2-13/16	-32	2	5.74	11771-32-32
-40	2-1/2	3-5/16	-32	2	5.62	11771-40-32

[^]Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

+Non-standard.

**SAE Code 61 Flange 67 1/2°
Elbow**

11871



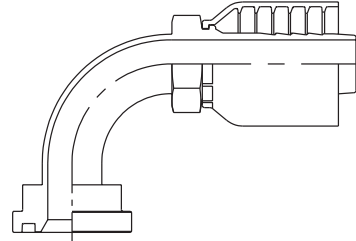
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	1-3/16	-8	1/2	1.84	11871-8-8+
-12	3/4	1-1/2	-8	1/2	1.66	11871-12-8
-12	3/4	1-1/2	-12	3/4	2.74	11871-12-12
-16	1	1-3/4	-12	3/4	2.73	11871-16-12
-16	1	1-3/4	-16	1	2.98	11871-16-16
-20	1-1/4	2	-16	1	3.12	11871-20-16+
-20	1-1/4	2	-20	1-1/4	3.39	11871-20-20
-24	1-1/2	2-3/8	-20	1-1/4	3.38	11871-24-20^
-24	1-1/2	2-3/8	-24	1-1/2	4.01	11871-24-24
-32	2	2-13/16	-24	1-1/2	4.01	11871-32-24
-32	2	2-13/16	-32	2	5.69	11871-32-32

^Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

+Non-standard.

**SAE Code 61 Flange 90°
Elbow**

11971



Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	1-3/16	-6	3/8	1.91	11971-8-6+
-8	1/2	1-3/16	-8	1/2	1.72	11971-8-8
-10	5/8	1-11/32	-8	1/2	1.90	11971-10-8+
-10	5/8	1-11/32	-10	5/8	2.37	11971-10-10
-12	3/4	1-1/2	-10	5/8	2.37	11971-12-10
-12	3/4	1-1/2	-12	3/4	2.11	11971-12-12
-12	3/4	1-1/2	-12	3/4	2.39	11971-12-12C+
-16	1	1-3/4	-12	3/4	2.46	11971-16-12
-16	1	1-3/4	-16	1	2.75	11971-16-16
-16	1	1-3/4	-16	1	2.62	11971-16-16C+
-16	1	1-3/4	-16	1-1/4	2.75	11971-16-20
-16	1	1-3/4	-16	1-1/4	2.76	11971-16-20C+
-16	1	1-3/4	-24	1-1/2	2.90	11971-16-24C+
-20	1-1/4	2	-12	3/4	2.45	11971-20-12
-20	1-1/4	2	-16	1	2.62	11971-20-16
-20	1-1/4	2	-20	1-1/4	3.40	11971-20-20
-20	1-1/4	2	-20	1-1/4	3.11	11971-20-20C+
-20	1-1/4	2	-24	1-1/2	4.14	11971-20-24
-24	1-1/2	2-3/8	-16	1	2.75	11971-24-16^^
-24	1-1/2	2-3/8	-20	1-1/4	3.11	11971-24-20^
-24	1-1/2	2-3/8	-20	1-1/4	3.15	11971-24-20C^+
-24	1-1/2	2-3/8	-24	1-1/2	3.66	11971-24-24
-24	1-1/2	2-3/8	-32	2	3.87	11971-24-32
-32	2	2-13/16	-24	1-1/2	3.65	11971-32-24
-32	2	2-13/16	-32	2	5.23	11971-32-32
-40	2-1/2	3-5/16	-32	2	5.23	11971-40-32

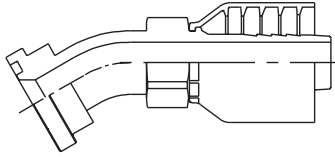
^Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

^^Must be assembled with die part number 83C-D16H.

+Non-standard.

SAE Code 61 Flange 30° Elbow

12671



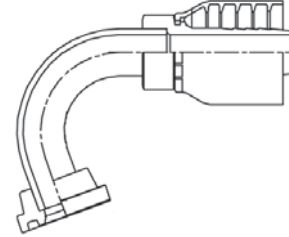
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-1/2	-12	3/4	2.52	12671-12-12
-16	1	1-3/4	-16	1	2.68	12671-16-16
-20	1-1/4	2	-16	1	2.68	12671-20-16
-20	1-1/4	2	-20	1-1/4	3.18	12671-20-20
-24	1-1/2	2-3/8	-20	1-1/4	3.47	12671-24-20 ⁺
-24	1-1/2	2-3/8	-24	1-1/2	3.82	12671-24-24
-32	2	2-13/16	-24	1-1/2	3.82	12671-32-24
-32	2	2-13/16	-32	2	5.40	12671-32-32

⁺Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

⁺Non-standard.

SAE Code 61 Flange 110° Elbow

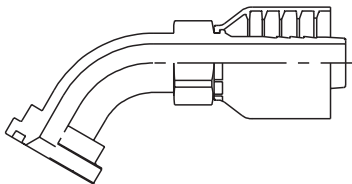
12U71



Flange Dash Size	Flange Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-16	-16	-16	1	2.71	12U71-16-16

SAE Code 61 Flange 60° Elbow

12771



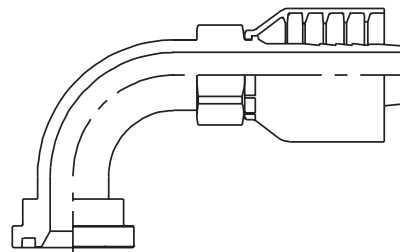
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-1/2	-12	3/4	2.78	12771-12-12
-16	1	1-3/4	-12	3/4	2.77	12771-16-12
-16	1	1-3/4	-16	1	3.36	12771-16-16
-20	1-1/4	2	-16	1	3.36	12771-20-16 ⁺
-20	1-1/4	2	-20	1-1/4	3.41	12771-20-20
-24	1-1/2	2-3/8	-20	1-1/4	3.43	12771-24-20 ⁺
-24	1-1/2	2-3/8	-24	1-1/2	4.06	12771-24-24
-32	2	2-13/16	-24	1-1/2	4.06	12771-32-24 ⁺
-32	2	2-13/16	-32	2	5.73	12771-32-32

⁺Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

⁺Non-standard.

SAE Code 61 Flange 90° Elbow

18971

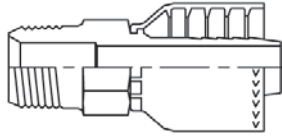


Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	1/2	1-3/16	-8	1/2	1.74	18971-8-8 ⁺
-12	3/4	1-1/2	-8	1/2	1.94	18971-12-8 ⁺
-12	3/4	1-1/2	-12	3/4	2.11	18971-12-12
-16	1	1-3/4	-12	3/4	2.11	18971-16-12 ⁺
-16	1	1-3/4	-16	1	2.74	18971-16-16
-16	1	1-3/4	-20	1-1/4	2.63	18971-16-20C ⁺
-16	1	1-3/4	-24	1-1/2	2.63	18971-16-24C ⁺
-20	1-1/4	2	-16	1	2.75	18971-20-16
-32	2	2-13/16	-32	2	5.39	18971-32-32 ⁺

⁺Non-standard.

Male API Pipe - Rigid - Straight

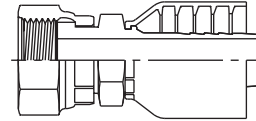
1AP71



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-24	1-1/2x11-1/2	1-1/2	-24	1-1/2	5.73	1AP71-24-24+
-32	2x11-1/2	2	-24	1-1/2	6.11	1AP71-32-24+
-32	2x11-1/2	2	-32	2	6.31	1AP71-32-32

Female Seal-Lok Swivel Straight

1JC71

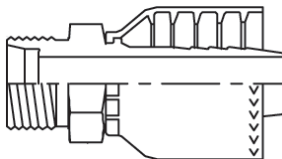


Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	1/4	-6	3/8	1.00	1JC71-4-6C+
-6	11/16x16	3/8	-8	1/2	0.95	1JC71-6-8C+
-8	13/16x16	1/2	-6	3/8	1.09	1JC71-8-6C+
-8	13/16x16	1/2	-8	1/2	1.01	1JC71-8-8
-8	13/16x16	1/2	-10	5/8	1.05	1JC71-8-10+
-10	1x14	5/8	-10	5/8	1.15	1JC71-10-10
-12	1-3/16x12	3/4	-12	3/4	1.30	1JC71-12-12
-16	1-7/16x12	1	-16	1	1.44	1JC71-16-16
-20	1-1/16x12	1-1/4	-20	1-1/4	1.58	1JC71-20-20-SM+
-24	2x12	1-1/2	-24	1-1/2	1.67	1JC71-24-24C+

+Non-standard.

Male Metric S - Rigid - Straight (24° Cone)

1D271

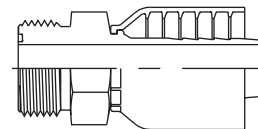


Thread Dash Size mm	Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-25	M36x2	-12	3/4	2.90	1D271-25-12
-30	M42x2	-16	1	3.45	1D271-30-16
-38	M52x2	-20	1-1/4	3.58	1D271-38-20

Note: Mates with EO "S" Series fittings.

Male Seal-Lok Straight (with O-Ring)

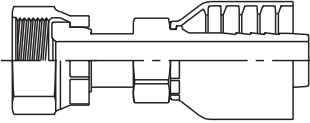
1J071



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-8	13/16x16	1/2	-8	1/2	1.20	1J071-8-8
-10	1x14	5/8	-8	1/2	1.41	1J071-10-8
-10	1x14	5/8	-10	5/8	1.44	1J071-10-10
-12	1-3/16x16	3/4	-10	5/8	1.55	1J071-12-10
-12	1-3/16x16	3/4	-12	3/4	1.51	1J071-12-12
-16	1-7/16x12	1	-12	3/4	1.53	1J071-16-12
-16	1-7/16x12	1	-16	1	1.68	1J071-16-16
-20	1-11/16x12	1-1/4	-20	1-1/4	1.64	1J071-20-20
-24	2x12	1-1/2	-24	1-1/2	1.83	1J071-24-24

**Female Seal-Lok Swivel
Straight (Long)**

1JS71

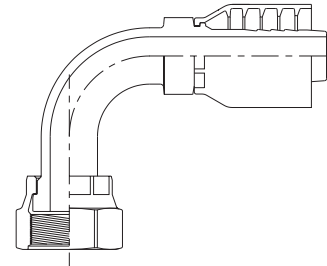


Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	11/16x16	3/8	-6	3/8	1.38	1JS71-6-6
-6	11/16x16	3/8	-8	1/2	1.29	1JS71-6-8
-8	13/16x16	1/2	-8	1/2	1.44	1JS71-8-8
-8	13/16x16	1/2	-10	5/8	1.56	1JS71-8-10+
-8	13/16x16	1/2	-12	3/4	1.58	1JS71-8-12+
-10	1x14	5/8	-8	1/2	1.69	1JS71-10-8
-10	1x14	5/8	-10	5/8	1.75	1JS71-10-10
-10	1x14	5/8	-12	3/4	1.70	1JS71-10-12
-12	1-3/16x12	3/4	-8	1/2	1.69	1JS71-12-8+
-12	1-3/16x12	3/4	-10	5/8	1.85	1JS71-12-10+
-12	1-3/16x12	3/4	-12	3/4	1.93	1JS71-12-12
-12	1-3/16x12	3/4	-12	3/4	1.93	1JS71-12-12C+
-16	1-7/16x12	1	-12	3/4	1.99	1JS71-16-12
-16	1-7/16x12	1	-16	1	1.92	1JS71-16-16
-20	1-11/16x12	1-1/4	-16	1	1.94	1JS71-20-16+
-20	1-11/16x12	1-1/4	-20	1-1/4	2.08	1JS71-20-20
-24	2x12	1-1/2	-24	1-1/2	1.71	1JS71-24-24
-32	2-1/2x12	2	-32	2	3.18	1JS71-32-32+

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Medium)**

1J571



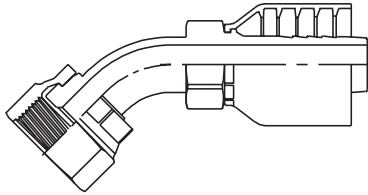
Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	11/16x16	3/8	-6	3/8	1.49	1J571-6-6+
-6	11/16x16	3/8	-6	3/8	1.49	1J571-6-6-SM+
-8	13/16x16	1/2	-6	3/8	1.55	1J571-8-6+
-8	13/16x16	1/2	-6	3/8	1.55	1J571-8-6-SM+
-8	13/16x16	1/2	-8	1/2	1.38	1J571-8-8+
-8	13/16x16	1/2	-8	1/2	1.38	1J571-8-8-SM+
-10	1x14	5/8	-8	1/2	1.53	1J571-10-8+
-10	1x14	5/8	-10	5/8	1.63	1J571-10-10
-10	1x14	5/8	-10	5/8	1.63	1J571-10-10-SM+
-12	1-3/16x12	3/4	-12	3/4	2.11	1J571-12-12
-12	1-3/16x12	3/4	-12	3/4	2.14	1J571-12-12C+
-16	1-7/16x12	1	-16	1	3.17	1J571-16-16C+

Fittings with "SM" suffix have metric hex.

+Non-standard.

**Female Seal-Lok Swivel
45° Elbow**

1J771

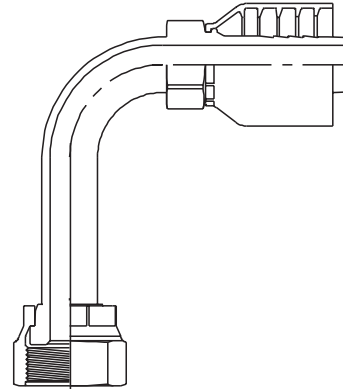


Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	1/4	-6	3/8	1.33	1J771-4-6+
-4	9/16x18	1/4	-6	3/8	1.33	1J771-4-6-SM+
-6	11/16x16	3/8	-6	3/8	1.44	1J771-6-6
-6	11/16x16	3/8	-6	3/8	1.44	1J771-6-6-SM+
-8	13/16x16	1/2	-6	3/8	1.71	1J771-8-6+
-8	13/16x16	1/2	-6	3/8	1.71	1J771-8-6-SM+
-8	13/16x16	1/2	-8	1/2	1.62	1J771-8-8
-8	13/16x16	1/2	-8	1/2	1.62	1J771-8-8-SM+
-10	1x14	5/8	-8	1/2	1.72	1J771-10-8
-10	1x14	5/8	-8	1/2	1.72	1J771-10-8-SM+
-10	1x14	5/8	-10	5/8	1.83	1J771-10-10
-10	1x14	5/8	-10	5/8	1.83	1J771-10-10-SM+
-12	1-3/16x12	3/4	-10	5/8	2.28	1J771-12-10+
-12	1-3/16x12	3/4	-12	3/4	2.25	1J771-12-12
-12	1-3/16x12	3/4	-12	3/4	2.25	1J771-12-12-SM+
-12	1-3/16x12	3/4	-16	1	2.49	1J771-12-16-SM+
-16	1-7/16x12	1	-16	1	2.64	1J771-16-16
-20	1-11/16x12	1-1/4	-20	1-1/4	3.08	1J771-20-20
-24	2x12	1-1/2	-24	1-1/2	3.23	1J771-24-24

Fittings with "SM" suffix have metric hex.
+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Long)**

1J171



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-6	11/16x16	3/8	-6	3/8	1.49	1J171-6-6
-6	11/16x16	3/8	-6	3/8	1.49	1J171-6-6-SM+
-8	13/16x16	1/2	-6	3/8	1.55	1J171-8-6+
-8	13/16x16	1/2	-6	3/8	1.55	1J171-8-6-SM+
-8	13/16x16	1/2	-8	1/2	1.38	1J171-8-8
-8	13/16x16	1/2	-8	1/2	1.38	1J171-8-8-SM+
-10	1x14	5/8	-8	1/2	1.53	1J171-10-8+
-10	1x14	5/8	-10	5/8	1.63	1J171-10-10
-10	1x14	5/8	-10	5/8	1.63	1J171-10-10-SM+
-10	1x14	5/8	-12	3/4	1.79	1J171-10-12
-12	1-3/16x12	3/4	-12	3/4	2.11	1J171-12-12
-12	1-3/16x12	3/4	-12	3/4	2.11	1J171-12-12-SM+
-12	1-13/16x12	3/4	-16	1	2.13	1J171-12-16
-16	1-7/16x12	1	-12	3/4	2.69	1J171-16-12
-16	1-7/16x12	1	-16	1	2.58	1J171-16-16
-16	1-7/16x12	1	-20	1-1/4	2.75	1J171-16-20
-20	1-11/16x12	1-1/4	-16	1	2.75	1J171-20-16
-20	1-11/16x12	1-1/4	-20	1-1/4	3.19	1J171-20-20
-24	2x12	1-1/2	-20	1-1/4	3.13	1J171-24-20^
-24	2x12	1-1/2	-24	1-1/2	3.64	1J171-24-24

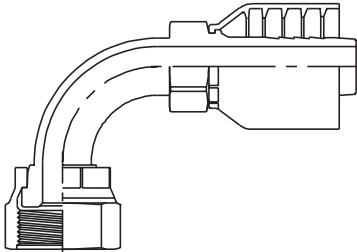
Fittings with "SM" suffix have metric hex.

^Must be assembled with Die Part Number 83C-D20H.

+Non-standard.

**Female Seal-Lok Swivel
90° Elbow (Short)**

1J971



Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-4	9/16x18	1/4	-6	3/8	1.44	1J971-4-6+
-6	11/16x16	3/8	-6	3/8	1.31	1J971-6-6
-6	11/16x16	3/8	-6	3/8	1.31	1J971-6-6-SM+
-8	13/16x16	1/2	-6	3/8	1.47	1J971-8-6+
-8	13/16x16	1/2	-6	3/8	1.47	1J971-8-6-SM+
-8	13/16x16	1/2	-8	1/2	1.38	1J971-8-8
-8	13/16x16	1/2	-8	1/2	1.43	1J971-8-8C+
-8	13/16x16	1/2	-8	1/2	1.38	1J971-8-8-SM+
-10	1x14	5/8	-8	1/2	1.53	1J971-10-8
-10	1x14	5/8	-8	1/2	1.53	1J971-10-8-SM+
-10	1x14	5/8	-10	5/8	1.63	1J971-10-10
-10	1x14	5/8	-10	5/8	1.63	1J971-10-10C+
-10	1x14	5/8	-10	5/8	1.63	1J971-10-10-SM+
-10	1x14	5/8	-12	3/4	1.70	1J971-10-12
-12	1-3/16x12	3/4	-8	1/2	1.70	1J971-12-8+*
-12	1-3/16x12	3/4	-10	5/8	2.15	1J971-12-10+
-12	1-3/16x12	3/4	-10	5/8	2.15	1J971-12-10-SM+
-12	1-3/16x12	3/4	-12	3/4	2.11	1J971-12-12
-12	1-3/16x12	3/4	-12	3/4	2.39	1J971-12-12C+
-12	1-3/16x12	3/4	-12	3/4	2.11	1J971-12-12-SM+
-12	1-3/16x12	3/4	-16	1	2.24	1J971-12-16-SM+
-16	1-7/16x12	1	-16	1	2.58	1J971-16-16
-16	1-7/16x12	1	-16	1	2.61	1J971-16-16C+
-20	1-11/16x12	1-1/4	-16	1	2.92	1J971-20-16-SM+
-20	1-11/16x12	1-1/4	-20	1-1/4	3.19	1J971-20-20
-24	2x12	1-1/2	-24	1-1/2	4.03	1J971-24-24

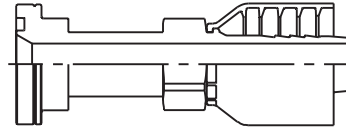
*Also available in 316 stainless steel. Add "C" to part no.
Example: 1J971-12-8C.

Fittings with "SM" suffix have metric hex.

+Non-standard.

**SAE Code 62 Flange
Straight**

16A71



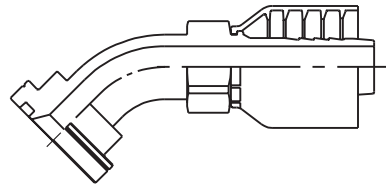
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-10	5/8	3.26	16A71-12-10+
-12	3/4	1-5/8	-12	3/4	2.93	16A71-12-12
-16	1	1-7/8	-12	3/4	2.93	16A71-16-12
-16	1	1-7/8	-16	1	3.27	16A71-16-16
-20	1-1/4	2-1/8	-16	1	3.27	16A71-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.41	16A71-20-20
-24	1-1/2	2-1/2	-24	1-1/2	4.23	16A71-24-24
-32	2	3-1/8	-32	2	5.24	16A71-32-32

Code 62 flanges notched for identification.

+Non-standard.

**SAE Code 62 Flange 45°
Elbow**

16F71



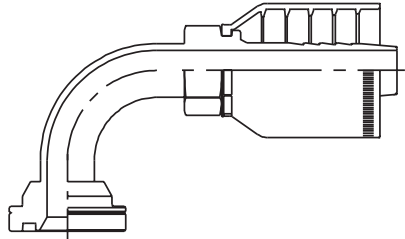
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-8	1/2	2.32	16F71-12-8+
-12	3/4	1-5/8	-12	3/4	2.74	16F71-12-12
-16	1	1-7/8	-16	1	2.92	16F71-16-16
-20	1-1/4	2-1/8	-16	1	3.02	16F71-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.38	16F71-20-20
-24	1-1/2	2-1/2	-20	1-1/4	3.89	16F71-24-20+
-24	1-1/2	2-1/2	-24	1-1/2	4.02	16F71-24-24
-32	2	3-1/8	-32	2	5.67	16F71-32-32

Code 62 flanges notched for identification.

+Non-standard.

SAE Code 62 Flange 90° Elbow

16N71



Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-8	1/2	1.73	16N71-12-8+
-12	3/4	1-5/8	-10	5/8	2.29	16N71-12-10+
-12	3/4	1-5/8	-12	3/4	2.47	16N71-12-12
-16	1	1-7/8	-12	3/4	2.48	16N71-16-12
-16	1	1-7/8	-16	1	2.75	16N71-16-16
-16	1	1-7/8	-16	1	2.81	16N71-16-16C+
-16	1	2-1/2	-24	1-1/2	4.49	16N71-16-24+
-20	1-1/4	2-1/8	-16	1	2.73	16N71-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.11	16N71-20-20
-24	1-1/2	2-1/2	-20	1-1/4	3.51	16N71-24-20^+
-24	1-1/2	2-1/2	-24	1-1/2	3.66	16N71-24-24
-32	2	3-1/8	-32	2	5.53	16N71-32-32

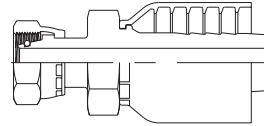
Code 62 flanges notched for identification.

^Must use die part no. 83C-D20H with Parkrimp 2 or Superkrimp.

+Non-standard.

Female Metric S-Swivel - Straight (24° Cone with O-Ring)

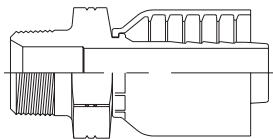
1C971



Thread Size MM	Tube Size MM	Hose Dash Size	Hose Size inch	Cut-Off Allow. MM	Part No.
M20x1.5	12	-6	3/8	30	1C971-12-6
M22x1.5	14	-6	3/8	31	1C971-14-6
M24x1.5	16	-8	1/2	30	1C971-16-8
M30x2	20	-10	5/8	35	1C971-20-10
M36x2	25	-12	3/4	28	1C971-25-12
M42x2	30	-16	1	33	1C971-30-16
M52x2	38	-20	1-1/4	33	1C971-38-20

Male BSP Pipe - Rigid - Straight (60° Cone)

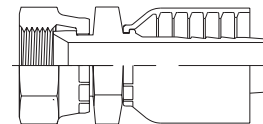
1UT71



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-6	3/8x19	-6	3/8	1.36	1UT71-6-6
-8	1/2x14	-8	1/2	1.46	1UT71-8-8
-12	3/4x14	-12	3/4	1.59	1UT71-12-12
-16	1x11	-16	1	1.88	1UT71-16-16
-20	1-1/4x11	-20	1-1/4	2.08	1UT71-20-20
-24	1-1/2x11	-24	1-1/2	2.23	1UT71-24-24

Female BSP Parallel Pipe - Swivel - Straight (30° Flare)

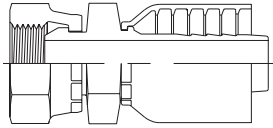
1FU71



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-6	3/8x19	-6	3/8	1.50	1FU71-6-6
-8	1/2x14	-8	1/2	1.51	1FU71-8-8
-12	3/4x14	-12	3/4	1.74	1FU71-12-12
-16	1x11	-16	1	1.93	1FU71-16-16
-20	1-1/4x11	-20	1-1/4	2.20	1FU71-20-20
-24	1-1/2x11	-24	1-1/2	2.53	1FU71-24-24

**JIS/BSP 60° Cone Swivel
Female
Parallel Pipe - Straight**

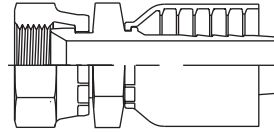
1GU71



BSP Thread Dash Size	BSP Thread Size Inch	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-6	3/8x19	-6	3/8	1.51	1GU71-6-6
-8	1/2x14	-8	1/2	1.52	1GU71-8-8
-12	3/4x14	-12	3/4	1.80	1GU71-12-12
-16	1x11	-16	1	2.01	1GU71-16-16
-20	1-1/4x11	-20	1-1/4	2.36	1GU71-20-20
-24	1-1/2x11	-24	1-1/2	2.54	1GU71-24-24
-32	2x11	-32	2	3.45	1GU71-32-32

**JIS/Metric 30° Flare Swivel
Female**

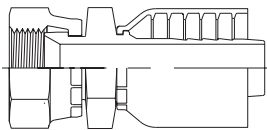
1XU71



BSP Thread Dash Size	BSP Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-10	M24x1.5	-8	1/2	1.85	1XU71-10-8
-10	M24x1.5	-10	5/8	1.91	1XU71-10-10
-10	M24x1.5	-12	3/4	1.89	1XU71-10-12
-12	M30x1.5	-12	3/4	2.02	1XU71-12-12
-12	M30x1.5	-16	1	2.19	1XU71-12-16
-16	M33x1.5	-16	1	2.33	1XU71-16-16
-20	M36x1.5	-20	1-1/4	2.50	1XU71-20-20
-24	M42x1.5	-24	1-1/2	2.80	1XU71-24-24

**Female Metric - Swivel -
Straight (30° Flare)**

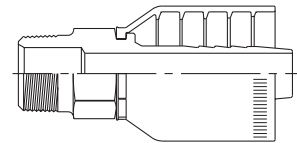
1MU71



Thread Dash Size	Thread Size MM	Hose Dash Size	Hose Size inch	Cut-Off Allow.	Part No.
-6	M18x1.5	-6	3/8	1.56	1MU71-6-6
-8	M22x1.5	-8	1/2	1.45	1MU71-8-8

Male NPTF Pipe

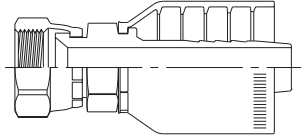
10178



Thread Size	Hose Size	Cut-Off Allow.	Part No.
3/4x14	3/4	1.80	10178-12-12
1x11-1/2	1	2.09	10178-16-16
1-1/4x11-1/2	1-1/4	2.53	10178-20-20
1-1/2x11-1/2	1-1/2	2.67	10178-24-24
2x11-1/2	2	3.00	10178-32-32

Female JIC 37° Swivel

10678



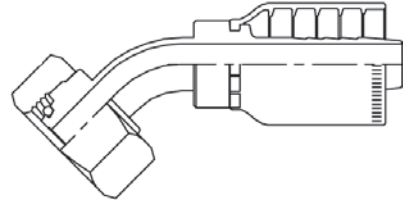
Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-1/16x12	3/4	3/4	1.90	10678-12-12*
1-5/16x12	1	3/4	2.14	10678-16-12
1-5/16x12	1	1	2.18	10678-16-16*
1-5/16x12	1	1-1/4	2.19	10678-16-20+
1-5/8x12	1-1/4	1	2.46	10678-20-16+
1-5/8x12	1-1/4	1-1/4	2.54	10678-20-20*
1-7/8x12	1-1/2	1-1/2	2.83	10678-24-24*
2-1/2x12	2	2	3.34	10678-32-32

*Also available in 316 stainless steel. Add "C" to part no.
Example: 10678-12-12C. Stainless Steel must be crimped with Superkrimp and Parkrimp 2.

+Non-standard.

Female Metric S - Swivel
45° Elbow
24° Cone with O-Ring

10C78

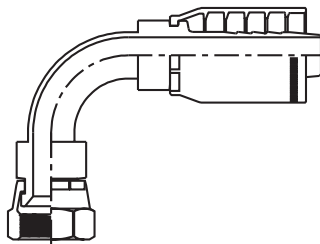


Thread Dash Size mm	Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-25	M36x2	-12	3/4	4.55	10C78-25-12
-30	M42x2	-16	1	5.11	10C78-30-16
-38	M52x2	-20	1-1/4	6.44	10C78-38-20

Note: Mates with EO "S" Series fittings.

Female JIC 37° Swivel
90° Elbow

13978

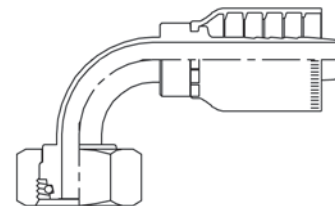


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-1/16x12	3/4	3/4	2.36	13978-12-12
1-5/16x12	1	1	2.86	13978-16-16
1-5/8x12	1-1/4	1-1/4	3.28	13978-20-20
1-7/8x12	1-1/2	1-1/2	4.92	13978-24-24+
2-1/2x12	2	2	6.21	13978-32-32+

+Non-standard.

Female Metric S - Swivel
90° Elbow
24° Cone with O-Ring

11C78

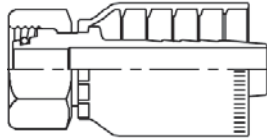


Thread Dash Size mm	Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-25	M36x2	-12	3/4	4.12	11C78-25-12
-30	M42x2	-16	1	4.71	11C78-30-16
-38	M52x2	-20	1-1/4	5.67	11C78-38-20

Note: Mates with EO "S" Series fittings.

**Female Metric S - Swivel
Straight
24° Cone with O-Ring**

1C978

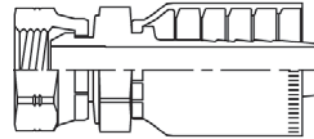


Thread Dash Size mm	Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-25	M36x2	-12	3/4	3.12	1C978-25-12
-30	M42x2	-16	1	3.40	1C978-30-16
-38	M52x2	-20	1-1/4	3.98	1C978-38-20

Note: Mates with EO "S" Series fittings.

**Female BSP Parallel Pipe -
Swivel - Straight
60° Cone**

1GU78

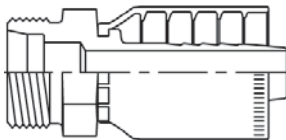


Thread Dash Size	Thread Size	Tube Size	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4x14	3/4	-12	3/4	3.71	1GU78-12-12
-16	1x11	1	-16	1	4.00	1GU78-16-16
-20	1-1/4x11	1-1/4	-20	1-1/4	4.95	1GU78-20-20+
-24	1-1/2	1-1/2	-24	1-1/2	5.19	1GU78-24-24+
-32	2	2	-32	2	5.54	1GU78-32-32+

+Non-standard.

**Male Metric S - Rigid
Straight - 24° Cone**

1D278

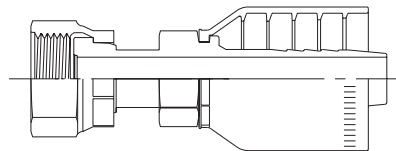


Thread Dash Size mm	Thread Size mm	Hose Dash Size	Hose Size Inch	Cut-Off Allow.	Part No.
-25	M36x2	-12	3/4	3.38	1D278-25-12
-30	M42x2	-16	1	3.72	1D2978-30-16
-38	M52x2	-20	1-1/4	4.42	1D278-38-20

Note: Mates with EO "S" Series fittings.

**Female Seal-Lok Swivel -
Straight**

1JS78

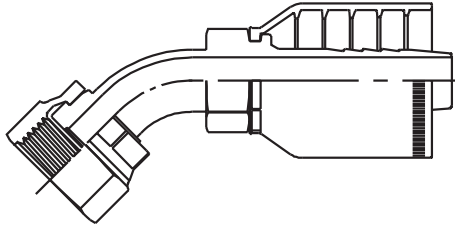


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-3/16x12	3/4	3/4	1.94	1JS78-12-12
1-7/16x12	1	3/4	2.02	1JS78-16-12+
1-7/16x12	2	1	2.18	1JS78-16-16
1-7/16x12	1	1-1/4	2.50	1JS78-16-20+
1-11/16x12	1-1/4	1	2.14	1JS78-20-16
1-11/16x12	1-1/4	1-1/4	2.23	1JS78-20-20
2x12	1-1/2	1-1/2	2.81	1JS78-24-24
2-1/2x12	2	2	3.28	1JS78-32-32

+Non-standard.

Female Seal-Lok Swivel 45° Elbow O-Ring Face Seal

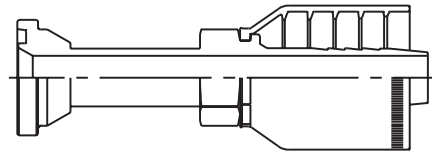
1J778



Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-3/16x12	3/4	3/4	2.34	1J778-12-12
1-7/16x12	1	1	2.84	1J778-16-16
1-11/16x12	1-1/4	1-1/4	3.29	1J778-20-20
2x12	1-1/2	1-1/2	4.70	1J778-24-24

SAE Code 61 Flange Straight

14A78/11578

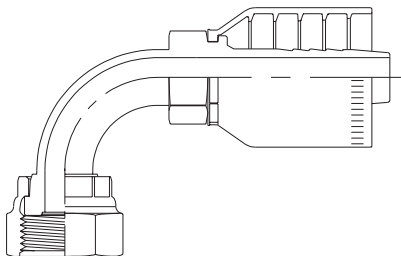


Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-1/2	3/4	2.58	11578-12-12
1	1-3/4	1	2.74	11578-16-16
1	1-3/4	1-1/4	2.84	11578-16-20+
1-1/4	2	1-1/4	3.15	11578-20-20+
1-1/2	2-3/8	1-1/2	4.59	11578-24-24+*
2	2-13/16	2	6.09	11578-32-32+*
1-1/4	2	1	1.47	14A78-20-16+
1-1/4	2	1-1/4	3.15	14A78-20-20
1-1/2	2-3/8	1-1/4	1.68	14A78-24-20+
1-1/2	2-3/8	1-1/2	4.32	14A78-24-24
1-1/2	2-3/8	2	3.56	14A78-24-32+
2	2-13/16	1-1/2	2.47	14A78-32-24
2	2-13/16	2	3.57	14A78-32-32

Note: 14A78 fittings must use 50H split flanges.

Female Seal-Lok Swivel 90° Elbow - (Short)

1J978

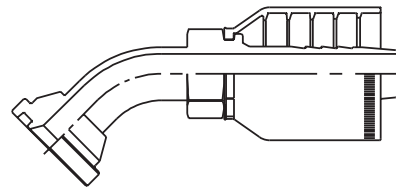


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-3/16x12	3/4	3/4	2.21	1J978-12-12
1-7/16x12	1	3/4	2.69	1J978-16-12+
1-7/16x12	1	1	2.78	1J978-16-16
1-7/16x12	1	1-1/4	2.98	1J978-16-20+
1-11/16x12	1-1/4	1	2.78	1J978-20-16
1-11/16x12	1-1/4	1-1/4	3.43	1J978-20-20
2x12	1-1/2	1-1/2	4.37	1J978-24-24

+Non-standard.

SAE Code 61 Flange 45° Elbow

14F78/11778



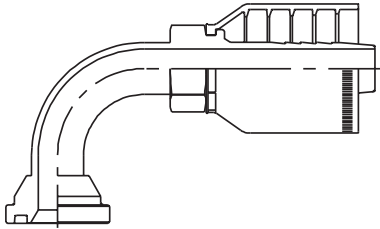
Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-1/2	3/4	2.55	11778-12-12
1	1-3/4	3/4	2.55	11778-16-12+
1	1-3/4	1	3.16	11778-16-16
1-1/4	2	1-1/4	3.81	11778-20-20+
1-1/2	2-3/8	1-1/2	4.85	11778-24-24+
2	2-13/16	2	6.08	11778-32-32+
1-1/4	2	1-1/4	4.00	14F78-20-20
1-1/2	2-3/8	1-1/4	4.00	14F78-24-20+
1-1/2	2-3/8	1-1/2	4.78	14F78-24-24
2	2-13/16	2	5.84	14F78-32-32

Note: 14F78 fittings must use 50H split flanges.

+Non-standard.

**SAE Code 61 Flange
90° Elbow**

14N78/11978

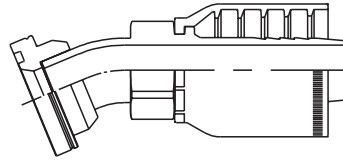


Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-1/2	3/4	2.21	11978-12-12
1	1-3/4	3/4	2.59	11978-16-12+
1	1-3/4	1	2.78	11978-16-16
1-1/4	2	1-1/4	4.27	11978-20-20+
1-1/2	2-3/8	1-1/2	3.64	11978-24-24+
2	2-13/16	2	6.09	11978-32-32+
2-1/2	2-13/16	2	6.09	11978-40-32+
1	1-3/4	1-1/4	3.31	14N78-16-20+
1-1/4	2	1	2.78	14N78-20-16
1-1/4	2	1-1/4	3.70	14N78-20-20
1-1/4	2	1-1/2	3.66	14N78-20-24+
1-1/2	2-3/8	1-1/4	3.70	14N78-24-20+
1-1/2	2-3/8	1-1/2	4.31	14N78-24-24
2	2-13/16	1-1/2	4.31	14N78-32-24+
2	2-13/16	2	5.25	14N78-32-32

Note: 14N78 fittings must use 50H split flanges.
+Non-standard.

**SAE Code 62 Flange
22 1/2° Elbow**

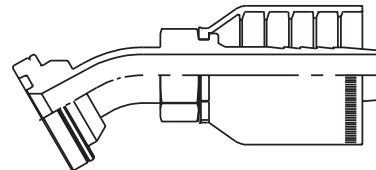
16B78



Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
1	1-7/8	1	3.48	16B78-16-16

**SAE Code 62 Flange 30°
Elbow**

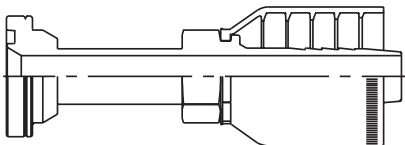
16E78



Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-5/8	3/4	2.75	16E78-12-12
1	1-7/8	1	3.41	16E78-16-16
1-1/4	2-1/8	1-1/4	4.32	16E78-20-20
1-1/2	2-1/2	1-1/2	5.08	16E78-24-24
2	3-1/8	2	6.30	16E78-32-32

**SAE Code 62 Flange
Straight**

16A78

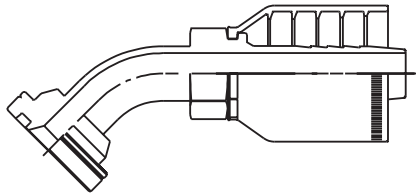


Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-5/8	3/4	2.84	16A78-12-12
1	1-7/8	3/4	1.81	16A78-16-12
1	1-7/8	1	3.31	16A78-16-16
1	1-7/8	1-1/4	3.43	16A78-16-20+
1-1/4	2-1/8	1	2.10	16A78-20-16
1-1/4	2-1/8	1-1/4	3.46	16A78-20-20
1-1/4	2-1/8	1-1/2	3.69	16A78-20-24+
1-1/2	2-1/2	1	3.60	16A78-24-16+
1-1/2	2-1/2	1-1/4	2.38	16A78-24-20
1-1/2	2-1/2	1-1/2	4.33	16A78-24-24
2	3-1/8	1-1/2	2.86	16A78-32-24
2	3-1/8	2	5.06	16A78-32-32

+Non-standard.

SAE Code 62 Flange 45°
Elbow

16F78

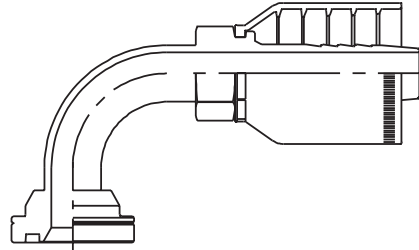


Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-5/8	3/4	2.55	16F78-12-12
1	1-7/8	3/4	2.55	16F78-16-12
1	1-7/8	1	3.16	16F78-16-16
1	1-7/8	1-1/4	3.58	16F78-16-20+
1-1/4	2-1/8	1	3.16	16F78-20-16
1-1/4	2-1/8	1-1/4	4.00	16F78-20-20
1-1/2	2-1/2	1-1/4	4.00	16F78-24-20
1-1/2	2-1/2	1-1/2	4.78	16F78-24-24
2	3-1/8	1-1/2	4.78	16F78-32-24+
2	3-1/8	2	5.84	16F78-32-32

+Non-standard.

SAE Code 62 Flange 90°
Elbow

16N78

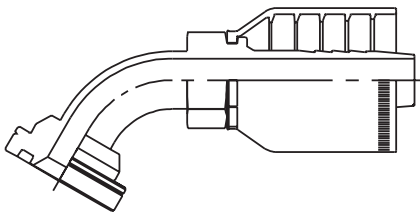


Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-5/8	3/4	2.21	16N78-12-12
3/4	1-5/8	1	2.78	16N78-12-16+
1	1-7/8	3/4	2.21	16N78-16-12
1	1-7/8	1	2.78	16N78-16-16
1	1-7/8	1-1/4	2.85	16N78-16-20+
1-1/4	2-1/8	3/4	2.59	16N78-20-12+
1-1/4	2-1/8	1	2.78	16N78-20-16
1-1/4	2-1/8	1-1/4	3.70	16N78-20-20
1-1/4	2-1/8	1-1/2	3.56	16N78-20-24+
1-1/2	2-1/2	1	2.78	16N78-24-16
1-1/2	2-1/2	1-1/4	3.70	16N78-24-20
1-1/2	2-1/2	1-1/2	4.31	16N78-24-24
1-1/2	2-1/2	2	3.84	16N78-24-32+
2	3-1/8	1-1/2	4.31	16N78-32-24
2	3-1/8	2	5.25	16N78-32-32

+Non-standard.

SAE Code 62 Flange 60°
Elbow

16G78

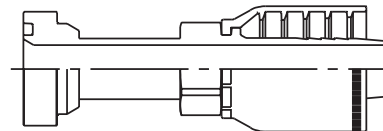


Flange Size	Flange Dia.	Hose Size	Cut-Off Allow.	Part No.
3/4	1-5/8	3/4	3.25	16G78-12-12
1	1-7/8	1	4.00	16G78-16-16
1-1/4	2-1/8	1-1/4	5.33	16G78-20-20
1-1/2	2-1/2	1-1/2	6.20	16G78-24-24
2	3-1/8	2	5.73	16G78-32-32+

+Non-standard.

Flange Straight
(Caterpillar® Style¹)

1XA78

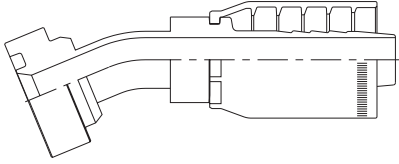


Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	3.55	1XA78-12-12
-16	1	1-7/8	-12	3/4	3.53	1XA78-16-12
-16	1	1-7/8	-16	1	3.8	1XA78-16-16
-20	1-1/4	2-1/8	-16	1	3.8	1XA78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.96	1XA78-20-20
-20	1-1/4	2-1/8	-24	1-1/2	4.13	1XA78-20-24+
-24	1-1/2	2-1/2	-20	1-1/4	3.96	1XA78-24-20
-24	1-1/2	2-1/2	-24	1-1/2	4.74	1XA78-24-24
-32	2	3-1/8	-32	2	6.22	1XA78-32-32

+Non-standard.

**Flange 22 1/2° Elbow
(Caterpillar® Style¹)**

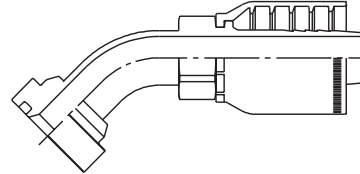
1XB78



Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.83	1XB78-12-12
-16	1	1-7/8	-12	3/4	2.81	1XB78-16-12
-16	1	1-7/8	-16	1	2.81	1XB78-16-16
-20	1-1/4	2-1/8	-16	1	2.81	1XB78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	4.82	1XB78-20-20
-24	1-1/2	2-1/2	-20	1-1/4	4.82	1XB78-24-20
-24	1-1/2	2-1/2	-24	1-1/2	4.87	1XB78-24-24

**Flange 45° Elbow
(Caterpillar® Style¹)**

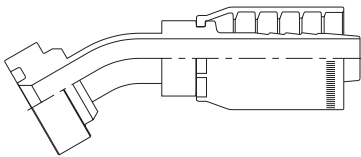
1XF78



Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	3.06	1XF78-12-12
-16	1	1-7/8	-12	3/4	3.05	1XF78-16-12
-16	1	1-7/8	-16	1	3.61	1XF78-16-16
-20	1-1/4	2-1/8	-16	1	3.61	1XF78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.99	1XF78-20-20
-24	1-1/2	2-1/2	-20	1-1/4	3.99	1XF78-24-20
-24	1-1/2	2-1/2	-20	1-1/2	4.68	1XF78-24-24
-32	2	3-1/8	-24	1-1/2	4.82	1XF78-32-24
-32	2	3-1/8	-32	2	6.21	1XF78-32-32

**Flange 30° Elbow
(Caterpillar® Style¹)**

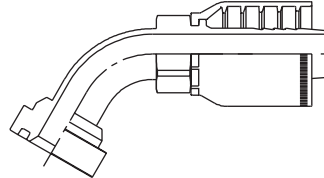
1XE78



Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.90	1XE78-12-12
-16	1	1-7/8	-12	3/4	2.88	1XE78-16-12
-16	1	1-7/8	-16	1	3.23	1XE78-16-16
-20	1-1/4	2-1/8	-16	1	3.25	1XE78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.99	1XE78-20-20
-24	1-1/2	2-1/2	-20	1-1/4	3.99	1XE78-24-20
-24	1-1/2	2-1/2	-24	1-1/2	4.89	1XE78-24-24

**Flange 60° Elbow
(Caterpillar® Style¹)**

1XG78

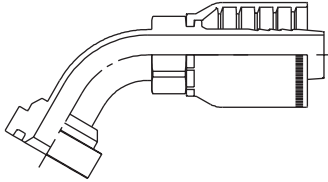


Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.98	1XG78-12-12
-16	1	1-7/8	-12	3/4	2.97	1XG78-16-12
-16	1	1-7/8	-16	1	3.28	1XG78-16-16
-20	1-1/4	2-1/8	-16	1	3.28	1XG78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	4.33	1XG78-20-20
-24	1-1/2	2-1/2	-20	1-1/4	4.33	1XG78-24-20
-24	1-1/2	2-1/2	-24	1-1/2	4.67	1XG78-24-24

¹ Caterpillar® style fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are thicker than SAE Code 62 and measure .560" thickness in all sizes. Contact Hose Products Division for information.

**Flange 67-1/2°
(Caterpillar® Style¹)**

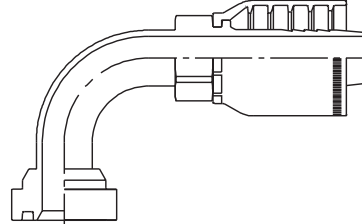
1XM78



Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-16	3/4	1-7/8	-12	3/4	2.88	1XM78-16-12
-16	1	1-7/8	-16	1	3.35	1XM78-16-16
-20	1	2-1/8	-16	1	3.36	1XM78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.45	1XM78-20-20
-24	1-1/4	2-1/2	-20	1-1/4	3.45	1XM78-24-20

**Flange 90°
(Caterpillar® Style¹)**

1XN78



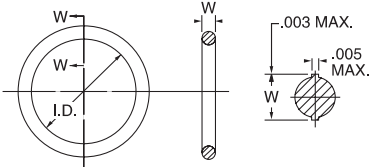
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.59	1XN78-12-12
-12	3/4	1-5/8	-16	1	2.73	1XN78-12-16
-16	1	1-7/8	-12	3/4	2.59	1XN78-16-12
-16	1	1-7/8	-16	1	3.19	1XN78-16-16
-20	1-1/4	2-1/8	-16	1	3.19	1XN78-20-16
-20	1-1/4	2-1/8	-20	1-1/4	4.36	1XN78-20-20
-24	1-1/2	2-1/2	-20	1-1/4	4.36	1XN78-24-20
-24	1-1/2	2-1/2	-20	1-1/4	4.86	1XN78-24-20-SP01
-24	1-1/2	2-1/2	-24	1-1/2	3.64	1XN78-24-24
-32	2	3-1/8	-24	1-1/2	3.64	1XN78-32-24
-32	2	3-1/8	-32	2	6.21	1XN78-32-32

¹ Caterpillar® style fittings conform to the bolt hole patterns of SAE Code 62 and require special flange halves and seals. The Caterpillar® style flange heads are thicker than SAE Code 62 and measure .560" thickness in all sizes. Contact Hose Products Division for information.

O-Rings

711509

For 05 Ends and Adapters
(Compound N552-90)*

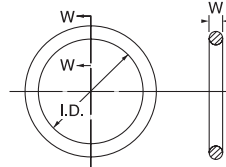


SAE Thread Size	I.D.	W	Part No.
7/16-20 (-4)	.351+.005	.072+.003	711509-1
1/2-20 (-5)	.414+.005	.072+.003	711509-2
9/16-20 (-6)	.468+.005	.078+.003	711509-3
3/4-16 (-8)	.644+.005	.087+.003	711509-4
7/8-14 (-10)	.755+.005	.097+.003	711509-5
1 1/16-12 (-12)	.924+.005	.116+.004	711509-6
1 5/16-12 (-16)	1.171+.005	.116+.004	711509-7
1 5/8-12 (-20)	1.475+.005	.118+.004	711509-8
1 7/8-12 (-24)	1.720+.005	.118+.004	711509-9
2 1/2-12 (-32)	2.337+.005	.118+.004	711509-10

O-Rings

711510

For Code 61 and Code 62 Flanges
(Compound N552-90)*

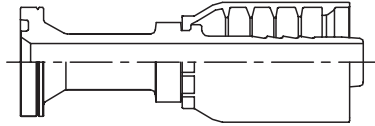


Flange Size	I.D.	W	Part No.
1/2 (-8)	.734	.139	711510-6
3/4 (-12)	.984	.139	711510-5
1 (-16)	1.296	.139	711510-4
1 1/4 (-20)	1.484	.139	711510-3
1 1/2 (-24)	1.859	.139	711510-2
2 (-32)	2.234	.139	711510-1

For use with petroleum base fluids. Other compounds available for phosphate ester fluids by special order.

**Flange Straight
ISO 12151-3-S-S**

16A79



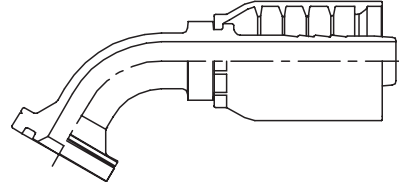
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.84	16A79-12-12
-12	3/4	1-5/8	-16	1	3.01	16A79-12-16+
-16	1	1-7/8	-12	3/4	1.82	16A79-16-12
-16	1	1-7/8	-16	1	3.31	16A79-16-16
-20	1-1/4	2-1/8	-16	1	2.11	16A79-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.41	16A79-20-20

+Non-standard.

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

**Flange 60° Elbow
ISO 12151-3-E60S-S**

16G79

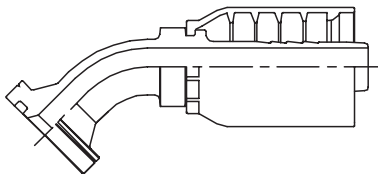


Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-16	1	1-7/8	-16	1	4.01	16G79-16-16

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

**Flange 45° Elbow
ISO 12151-3-E45S-S**

16F79



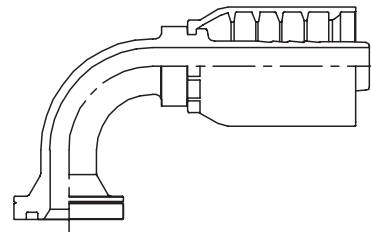
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.55	16F79-12-12
-12	3/4	1-5/8	-16	1	2.87	16F79-12-16+
-16	1	1-7/8	-12	3/4	2.54	16F79-16-12+
-16	1	1-7/8	-16	1	3.16	16F79-16-16
-16	1	1-7/8	-20	1-1/4	3.57	16F79-16-20+
-20	1-1/4	2-1/8	-16	1	3.16	16F79-20-16
-20	1-1/4	2-1/8	-20	1-1/4	4.09	16F79-20-20

+Non-standard.

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

**Flange 90° Elbow
ISO 12151-3-E90S-S**

16N79



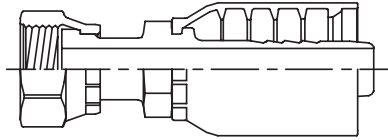
Flange Dash Size	Flange Size	Flange Dia.	Hose Dash Size	Hose Size	Cut-Off Allow.	Part No.
-12	3/4	1-5/8	-12	3/4	2.21	16N79-12-12
-12	3/4	1-5/8	-16	1	2.37	16N79-12-16+
-16	1	1-7/8	-12	3/4	2.21	16N79-16-12
-16	1	1-7/8	-16	1	2.78	16N79-16-16
-16	1	1-7/8	-20	1-1/4	2.95	16N79-16-20+
-20	1-1/4	2-1/8	-16	1	2.78	16N79-20-16
-20	1-1/4	2-1/8	-20	1-1/4	3.63	16N79-20-20
-24	1-1/2	2-1/8	-20	1-1/4	3.63	16N79-24-20+

+Non-standard.

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

**Female Seal-Lok Swivel
 Straight – Long**

1JS79



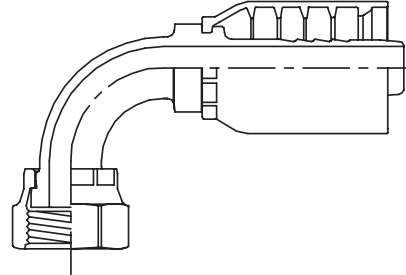
Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-3/16x12	3/4	3/4	1.93	1JS79-12-12
1-7/16x12	1	3/4	2.20	1JS79-16-12
1-7/16x12	1	1	2.28	1JS79-16-16
1-11/16x12	1-1/4	1	2.15	1JS79-20-16
1-11/16x12	1-1/4	1-1/4	2.32	1JS79-20-20

Note: Seal-Lok torques table is found in Section G of the Hose Products Division Catalog 4400 USA February 2000.

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

**Female Seal-Lok Swivel
 90° Elbow – Short Drop**

1J979



Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-3/16x12	3/4	3/4	2.21	1J979-12-12
1-7/16x12	1	1	2.78	1J979-16-16
1-11/16x12	1-1/4	1-1/4	3.52	1J979-20-20+

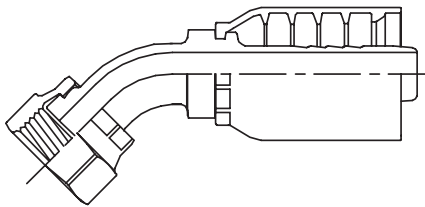
+Non-standard.

Note: Seal-Lok torques table is found in Section G of the Hose Products Division Catalog 4400 USA February 2000.

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

**Female Seal-Lok Swivel
 45° Elbow**

1J779



Thread Size	Tube Size	Hose Size	Cut-Off Allow.	Part No.
1-3/16x12	3/4	3/4	2.34	1J779-12-12
1-7/16x12	1	1	2.84	1J779-16-16
1-11/16x12	1-1/4	1-1/4	3.49	1J779-20-20+

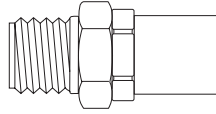
+Non-standard.

Note: Seal-Lok torques table is found in Section G of the Hose Products Division Catalog 4400 USA February 2000.

Note: Flange kits and O-rings are listed in Section F of the Hose Products Division Catalog 4400 USA February 2000.

Male Pipe

10191N



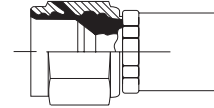
Pipe Thread	Hose Size	Cut-Off Allow.	*Standard Part No.	**Stainless Steel Part No.
1/8-27	-4	13/16	10191N-2-4	10191N-2-4C
1/4-18	-4	1	10191N-4-4	10191N-4-4C
1/4-18	-5	1 1/16	10191N-4-5	10191N-4-5C
1/4-18	-6	1 1/16	10191N-4-6	10191N-4-6C
3/8-18	-6	1 1/8	10191N-6-6	10191N-6-6C
3/8-18	-8	1 5/32	10191N-6-8	10191N-6-8C
1/2-14	-8	1 7/16	10191N-8-8	10191N-8-8C
1/2-14	-10	1 7/16	10191N-8-10	10191N-8-10C
3/4-14	-12	1 1/2	10191N-12-12	10191N-12-12C
1 -11 1/2	-16	1 3/4	10191N-16-16	10191N-16-16C
1 1/4-11 1/2	-20	2 1/16	10191N-20-20	10191N-20-20C

*Std Part- Brass nipple, steel nut & shell. For all steel fittings, add Suffix "S".

**C Part- 300 Series SS nipple, nut & shell.

Female SAE JIC 37° Swivel Straight

10691N



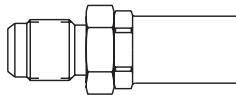
Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	*Standard Part No.	**Stainless Steel Part No.
7/16-20	1/4	-4	13/16	10691N-4-4	10691N-4-4C
1/2 -20	5/16	-5	15/16	10691N-5-5	10691N-5-5C
9/16-18	3/8	-6	1	10691N-6-6	10691N-6-6C
3/4 -16	1/2	-8	1 5/32	10691N-8-8	10691N-8-8C
7/8 -14	5/8	-10	1 1/4	10691N-10-10	10691N-10-10C
1 1/16-12	3/4	-12	1 5/16	10691N-12-12	10691N-12-12C
1 5/16-12	1	-16	1 7/16	10691N-16-16	10691N-16-16C
1 5/8-12	1-1/4	-20	1 9/16	10691N-20-20	10691N-20-20C

*Std Part- Brass nipple, steel nut & shell. For all steel fittings, add Suffix "S".

**C Part- 300 Series SS nipple, nut & shell Dual 37°/45° seat on all sizes except -6, -12, -16 & -20.

Male JIC 37°

10391N

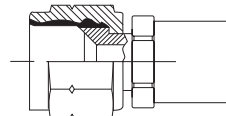


Pipe Thread	Hose Size	Cut-Off Allow.	*Steel Part No.
3/4-16	-6	1 3/16	10391N-8-6

*Steel nipple, steel shell.

Female SAE 45° Swivel

10891N

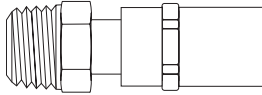


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
5/8 - 18	3/8	-6	1	10891N-6-6
1 1/16-14	3/4	-12	1 1/4	10891N-12-12

*Brass nipple, steel nut & shell.

**Male Inverted Swivel
Straight**

12891N

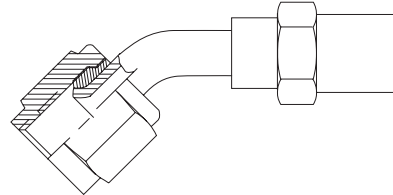


Tube Thread	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
7/16-24	1/4	-4	1 9/16	12891N-4-4
1/2 - 20	5/16	-5	1 5/8	12891N-5-5
1/2 - 20	5/16	-6	1 5/8	12891N-5-6
5/8-18	3/8	-6	1 5/8	12891N-6-6
3/4 -18	1/2	-8	1 11/16	12891N-8-8
7/8 - 18	5/8	-10	1 3/4	12891N-10-10
1 1/16 - 16	3/4	-12	1 3/4	12891N-12-12

*Steel tube, nipple, nut & shell.

**Female SAE JIC 37 Swivel
45° Elbow**

13791N



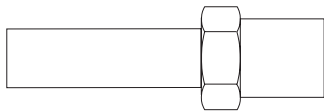
Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
7/16-20	1/4	-4	1 3/16	13791N-4-4
1/2 - 20	5/16	-5	1 1/4	13791N-5-5
9/16-18	3/8	-6	1 3/8	13791N-6-6
3/4 -16	1/2	-8	1 3/4	13791N-8-8
7/8 - 14	5/8	-10	2 1/8	13791N-10-10
1 1/16 - 12	3/4	-12	2 5/16	13791N-12-12
1 5/16 - 12	1	-16	2 11/16	13791N-16-16
1 5/8 - 12	1-1/4	-20	3 1/8	13791N-20-20

*Steel tube, nipple, nut & shell.

Straight Tube

13491N

(Without Nut and Ferrule)

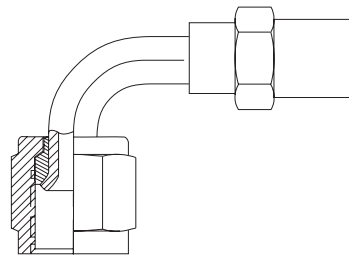


Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
1/2	-10	2 3/16	13491N-8-10
5/8	-10	2 5/16	13491N-10-10
3/4	-12	2 5/8	13491N-12-12

*Brass nipple, steel shell.

**Female SAE JIC 37° Swivel
90° Elbow**

13991N



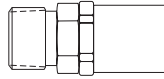
Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
7/16-20	1/4	-4	1 1/8	13991N-4-4
1/2 - 20	5/16	-5	1 3/16	13991N-5-5
9/16-18	3/8	-6	1 1/4	13991N-6-6
3/4 -16	1/2	-8	1 1/2	13991N-8-8
7/8 - 14	5/8	-10	1 3/4	13991N-10-10
1 1/16 - 12	3/4	-12	2 3/16	13991N-12-12
1 5/16 - 12	1	-16	2 11/16	13991N-16-16
1 5/8 - 12	1-1/4	-20	3 1/16	13991N-20-20

*Steel tube, nipple, nut & shell.

Compression Air Brake

16191N

(Use with HAB Nut and Sleeve)

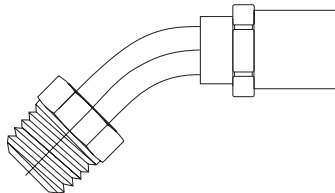


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
11/16-20	1/2	-8	1	16191N-8-8
11/16-20	1/2	-10	1	16191N-8-10
13/16 - 18	5/8	-10	1 5/32	16191N-10-10
1 - 18	3/4	-12	1 5/16	16191N-12-12

*Brass nipple, steel shell.

**Male Inverted Swivel
45° Elbow**

16791N

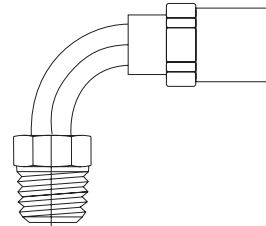


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
7/16-24	1/4	-4	1 5/16	16791N-4-4
1/2 - 20	5/16	-5	1 7/16	16791N-5-5
5/8-18	3/8	-6	1 7/8	16791N-6-6
3/4 -18	1/2	-8	2	16791N-8-8
7/8 - 18	5/8	-10	2 3/16	16791N-10-10
1 1/16 - 16	3/4	-12	2 7/16	16791N-12-12

*Steel tube, nipple, nut & shell.

**Male Inverted Swivel
90° Elbow**

16991N

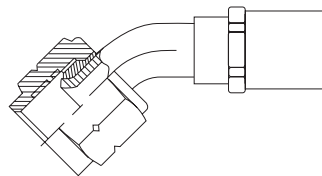


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
7/16-24	1/4	-4	1	16991N-4-4
1/2 - 20	5/16	-5	1 1/2	16991N-5-5
1/2 - 20	5/16	-6	1 1/2	16991N-5-6
5/8-18	3/8	-6	1 1/2	16991N-6-6
3/4 -18	1/2	-8	1 5/8	16991N-8-8
7/8 - 18	5/8	-10	1 7/8	16991N-10-10
1 1/16 - 16	3/4	-12	2 1/8	16991N-12-12

*Steel tube, nipple, nut & shell.

**Female SAE 45° Swivel 45°
Elbow**

17791N

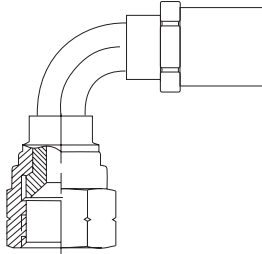


Thread Size	Hose Size	Tube Size	Cut-Off Allow.	*Steel Part No.
5/8-18	-6	3/8	1 1/4	17791N-6-6
1 1/16 - 14	-12	3/4	2 5/16	17791N-12-12

*Steel tube, nipple, nut & shell.

Female SAE 45° Swivel 90° Elbow

17991N

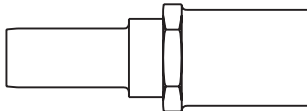


Thread Size	Tube Size	Hose Size	Cut-Off Allow.	*Steel Part No.
5/8-18	3/8	-6	1 1/16	17991N-6-6
1 1/16 - 14	3/4	-12	2 3/16	17991N-12-12

*Steel tube, nipple, nut & shell.

Laundry Flange Fitting

1TU91N

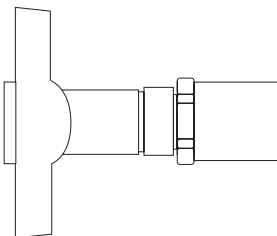


Hose Size	Tube Size	Cut-Off Allow.	*Stainless Steel Part No.
-4	1/4	1 1/8	1TU91N-4-4C
-6	3/8	1 1/4	1TU91N-6-6C
-8	1/2	1 1/2	1TU91N-8-8C

*316SS nipple & 300 SS shell.

Laundry Flange Fitting

1LF91N

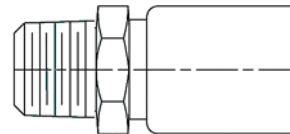


Flange Size "D" (inches)	Hose Size	Cut-Off Allow.	*Steel Part No.
2	-12	2 1/2	1LF91N-12-12
2	-16	2 1/2	1LF91N-12-16

*Steel flange, nipple & shell.

Male NPTF Pipe Rigid - Straight

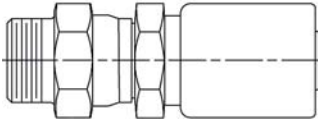
101HY (HY-MP)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/8x27	-2	1/4	-4	101HY-2-4	HY04-02MP
1/4x18	-4	1/4	-4	101HY-4-4	HY04-04MP
1/4x18	-4	1/4	-4	101HY-4-4C303	HY04-04MP-SS
1/4x18	-4	3/8	-6	101HY-4-6	HY06-04MP
3/8x18	-6	1/4	-4	101HY-6-4	HY04-06MP
3/8x18	-6	3/8	-6	101HY-6-6	HY06-06MP
3/8x18	-6	3/8	-6	101HY-6-6C303	HY06-06MP-SS
3/8x18	-6	1/2	-8	101HY-6-8	HY08-06MP
1/2x14	-8	1/4	-4	101HY-8-4	HY04-08MP
1/2x14	-8	3/8	-6	101HY-8-6	HY06-08MP
1/2x14	-8	1/2	-8	101HY-8-8	HY08-08MP
1/2x14	-8	1/2	-8	101HY-8-8C303	HY08-08MP-SS
1/2x14	-8	5/8	-10	101HY-8-10	HY10-08MP
1/2x14	-8	3/4	-12	101HY-8-12	HY12-08MP
3/4x14	-12	1/2	-8	101HY-12-8	HY08-12MP
3/4x14	-12	5/8	-10	101HY-12-10	HY10-12MP
3/4x14	-12	3/4	-12	101HY-12-12	HY12-12MP
3/4x14	-12	3/4	-12	101HY-12-12C303	HY12-12MP-SS
3/4x14	-12	1	-16	101HY-12-16	HY16-12MP
1x11 1/2	-16	3/4	-12	101HY-16-12	HY12-16MP
1x11 1/2	-16	1	-16	101HY-16-16	HY16-16MP
1x11 1/2	-16	1	-16	101HY-16-16C303	HY16-16MP-SS

Male NPTF Pipe Swivel - Straight

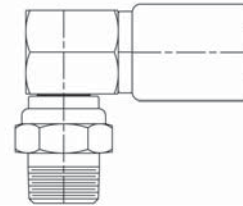
113HY (HY-MS and HY-SP)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/8x27	-2	1/4	-4	113HY-2-4	HY04-02MS
1/8x27	-2	1/4	-4	113HY-2-4	HY04-02SP
1/4x18	-4	1/4	-4	113HY-4-4	HY04-04MS
1/4x18	-4	1/4	-4	113HY-4-4	HY04-04SP
1/4x18	-4	3/8	-6	113HY-4-6	HY06-04MS
1/4x18	-4	3/8	-6	113HY-4-6	HY06-04SP
3/8x18	-6	1/4	-4	113HY-6-4	HY04-06MS
3/8x18	-6	1/4	-4	113HY-6-4	HY04-06SP
3/8x18	-6	3/8	-6	113HY-6-6	HY06-06MS
3/8x18	-6	3/8	-6	113HY-6-6	HY06-06SP
3/8x18	-6	3/8	-6	113HY-6-6	HY06-06SP
1/2x14	-8	3/8	-6	113HY-8-6	HY06-08MS
1/2x14	-8	3/8	-6	113HY-8-6	HY06-08SP
3/8x18	-6	1/2	-8	113HY-6-8	HY08-06MS
3/8x18	-6	1/2	-8	113HY-6-8	HY08-06SP
1/2x14	-8	1/2	-8	113HY-8-8	HY08-08MS
1/2x14	-8	1/2	-8	113HY-8-8	HY08-08SP
3/4x14	-12	3/4	-12	113HY-12-12	HY12-12MS
3/4x14	-12	3/4	-12	113HY-12-12	HY12-12SP
1x11-1/2	-16	1	-16	113HY-16-16	HY16-16MS
1x11-1/2	-16	1	-16	113HY-16-16	HY16-16SP

Male NPTF Pipe Swivel - 90° Elbow

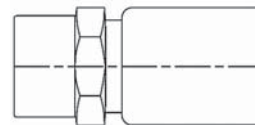
11LHY (HY-SP90)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/4x18	-4	1/4	-4	11LHY-4-4	HY04-04SP90
1/4x18	-4	3/8	-6	11LHY-4-6	HY06-04SP90
3/8x8	-6	3/8	-6	11LHY-6-6	HY06-06SP90
1/2x14	-8	3/8	-6	11LHY-8-6	HY06-08SP90
1/2x14	-8	1/2	-8	11LHY-8-8	HY08-08SP90

Female NPTF Pipe Rigid - Straight

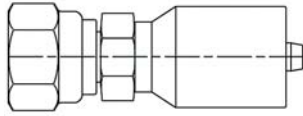
102HY (HY-FF)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/8x27	-2	1/4	-4	102HY-2-4	HY04-02FF
1/4x18	-4	1/4	-4	102HY-4-4	HY04-04FF
1/4x18	-4	3/8	-6	102HY-4-6	HY06-04FF
3/8x18	-6	1/4	-4	102HY-6-4	HY04-06FF
3/8x18	-6	3/8	-6	102HY-6-6	HY06-06FF
1/2x14	-8	3/8	-6	102HY-8-6	HY06-08FF
1/2x14	-8	1/2	-8	102HY-8-8	HY08-08FF
1/2x14	-8	3/4	-12	102HY-8-12	HY12-08FF
3/4x14	-12	3/4	-12	102HY-12-12	HY12-12FF
1x11-1/2	-16	1	16	102HY-16-16	HY16-16FF

Female NPSM Pipe Swivel -
Straight (60° Cone)

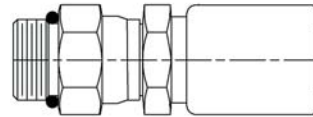
107HY (HY-RV)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
3/8x18	-6	3/8	-6	107HY-6-6	HY06-06RV

Male SAE Straight Thread
with O-Ring - Swivel -
Straight

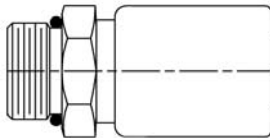
**10GHY
(HY-RC)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-4	10GHY-4-4	HY04-04RC
1/2x20	-5	1/4	-4	10GHY-5-4	HY04-05RC
9/16x18	-6	3/8	-6	10GHY-6-6	HY06-06RC
3/4x16	-8	3/8	-6	10GHY-8-6	HY06-08RC
3/4x16	-8	1/2	-8	10GHY-8-8	HY08-08RC
7/8x14	-10	1/2	-8	10GHY-10-8	HY08-10RC
1 1/16x12	-12	1/2	-8	10GHY-12-8	HY08-12RC
1 1/16x12	-12	3/4	-12	10GHY-12-12	HY12-12RC
1 5/16x12	-16	1	-16	10GHY-16-16	HY16-16RC

Male SAE Straight Thread
with O-Ring - Rigid -
Straight

**105HY
(HY-RA)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-4	105HY-4-4	HY04-04RA
1/2x20	-5	1/4	-4	105HY-5-4	HY04-05RA
9/16x18	-6	1/4	-4	105HY-6-4	HY04-06RA
9/16x18	-6	3/8	-6	105HY-6-6	HY06-06RA
3/4x16	-8	3/8	-6	105HY-8-6	HY06-08RA
3/4x16	-8	1/2	-8	105HY-8-8	HY08-08RA
7/8x14	-10	3/8	-6	105HY-10-6	HY06-10RA
7/8x14	-10	1/2	-8	105HY-10-8	HY08-10RA
7/8x14	-10	5/8	-10	105HY-10-10	HY10-10RA
1 1/16x12	-12	1/2	-8	105HY-12-8	HY08-12RA
1 1/16x12	-12	5/8	-10	105HY-12-10	HY10-12RA
1 1/16x12	-12	3/4	-12	105HY-12-12	HY12-12RA
1 5/16x12	-16	3/4	-12	105HY-16-12	HY12-16RA
1 5/16x12	-16	1	-16	105HY-16-16	HY16-16RA

Note: The fitting allows minor movement under pressure to relieve stress on hose. It is not to be used for continuous or extensive swiveling.

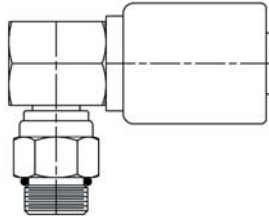
Note: O-Ring is not compatible with Phosphate Ester fluids.

Note: See Catalog 4400, Section G (Hose Assemblies) for pressure limitations.

Note: O-Ring is not compatible with Phosphate Ester fluids.

**Male SAE Straight Thread
with O-Ring - Swivel -
90° Elbow**

**10LHY
(HY-RC90)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-6	3/8	-6	10LHY-6-6	HY06-06RC90
3/4x16	-8	3/8	-6	10LHY-8-6	HY06-08RC90
3/4x16	-8	1/2	-8	10LHY-8-8	HY08-08RC90
7/8x14	-10	1/2	-8	10LHY-10-8	HY08-10RC90
1 1/16x12	-12	3/4	-12	10LHY-12-12	HY12-12RC90
1 5/16x12	-16	1	-16	10LHY-16-16	HY16-16RC90

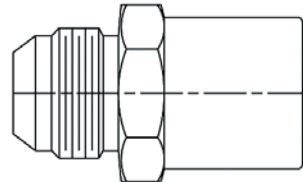
Note: The fitting allows minor movement under pressure to relieve stress on hose. It is not to be used for continuous or extensive swiveling.

Note: O-Ring is not compatible with Phosphate Ester fluids.

Note: See Catalog 4400, Section G (Hose Assemblies) for pressure limitations.

Male JIC 37° Rigid - Straight

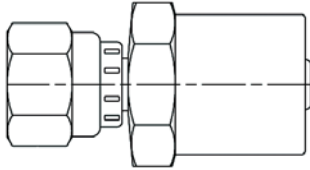
**103HY
(HY-MJ)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-5	103HY-4-4	HY04-04MJ
1/2x20	-5	1/4	-4	103HY-5-4	HY04-05MJ
9/16x18	-6	1/4	-4	103HY-6-4	HY04-06MJ
9/16x18	-6	3/8	-6	103HY-6-6	HY06-06MJ
9/16x18	-6	1/2	-8	103HY-6-8	HY08-06MJ
3/4x16	-8	3/8	-6	103HY-8-6	HY06-08MJ
3/4x16	-8	1/2	-8	103HY-8-8	HY08-08MJ
7/8x14	-10	3/8	-6	103HY-10-6	HY06-10MJ
7/8x14	-10	1/2	-8	103HY-10-8	HY08-10MJ
7/8x14	-10	5/8	-10	103HY-10-10	HY10-10MJ
7/8x14	-10	3/4	-12	103HY-10-12	HY12-10MJ
1-1/16x12	-12	1/2	-8	103HY-12-8	HY08-12MJ
1-1/16x12	-12	5/8	-10	103HY-12-10	HY10-12MJ
1-1/16x12	-12	3/4	-12	103HY-12-12	HY12-12MJ
1-3/16x12	-14	3/4	-12	103HY-14-12	HY12-14MJ
1-5/16x12	-16	3/4	-12	103HY-16-12	HY12-16MJ
1-5/16x12	-16	1	-16	103HY-16-16	HY16-16MJ

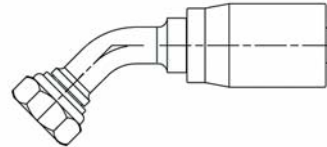
Female JIC 37° Swivel - Straight

106HY (HY-FJ)



Female JIC 37° Swivel - 45° Elbow

137HY (HY-FJ45T)

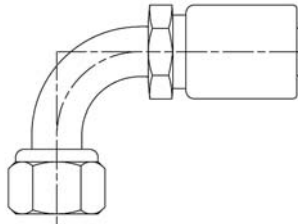


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
3/8x24	-3	1/4	-4	106HY-3-4	HY04-03FJ
7/16x20	-4	1/4	-4	106HY-4-4	HY04-04FJ
7/16x20	-4	1/4	-4	106HY-4-4C303	HY04-04FJ-SS
7/16x20	-4	3/8	-6	106HY-4-6	HY06-04FJ
1/2x20	-5	1/4	-4	106HY-5-4	HY04-05FJ
1/2x20	-5	3/8	-6	106HY-5-6	HY06-05FJ
9/16x18	-6	1/4	-4	106HY-6-4	HY04-06FJ
9/16x18	-6	3/8	-6	106HY-6-6	HY06-06FJ
9/16x18	-6	3/8	-6	106HY-6-6C303	HY06-06FJ-SS
9/16x18	-6	1/2	-8	106HY-6-8	HY08-06FJ
3/4x16	-8	3/8	-6	106HY-8-6	HY06-08FJ
3/4x16	-8	1/2	-8	106HY-8-8	HY08-08FJ
3/4x16	-8	1/2	-8	106HY-8-8C303	HY08-08FJ-SS
3/4x16	-8	5/8	-10	106HY-8-10	HY10-08FJ
3/4x16	-8	3/4	-10	106HY-8-12	HY12-08FJ
7/8x14	-10	3/8	-6	106HY-10-6	HY06-10FJ
7/8x14	-10	1/2	-8	106HY-10-8	HY08-10FJ
7/8x14	-10	5/8	-10	106HY-10-10	HY10-10FJ
7/8x14	-10	3/4	-12	106HY-10-12	HY12-10FJ
1 1/16x12	-12	1/2	-8	106HY-12-8	HY08-12FJ
1 1/16x12	-12	5/8	-10	106HY-12-10	HY10-12FJ
1 1/16x12	-12	3/4	-12	106HY-12-12	HY12-12FJ
1 1/16x12	-12	3/4	-12	106HY-12-12C303	HY12-12FJ-SS
1 1/16x12	-12	1	-16	106HY-12-16	HY16-12FJ
1 3/16x12	-14	5/8	-10	106HY-14-10	HY10-14FJ
1 3/16x12	-14	1	-16	106HY-14-16	HY16-14FJ
1 5/16x12	-16	3/4	-12	106HY-16-12	HY12-16FJ
1 5/16x12	-16	1	-16	106HY-16-16	HY16-16FJ
1 5/16x12	-16	1	-16	106HY-16-16C303	HY16-16FJ-SS
1 5/8x12	-20	1	-16	106HY-20-16	HY16-20FJ

Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-4	137HY-4-4	HY04-04FJ45T
1/2x20	-5	1/4	-4	137HY-5-4	HY04-05FJ45T
9/16x18	-6	1/4	-4	137HY-6-4	HY04-06FJ45T
9/16x18	-6	3/8	-6	137HY-6-6	HY06-06FJ45T
3/4x16	-8	3/8	-6	137HY-8-6	HY06-08FJ45T
3/4x16	-8	1/2	-8	137HY-8-8	HY08-08FJ45T
7/8x14	-10	1/2	-8	137HY-10-8	HY08-10FJ45T
7/8x14	-10	5/8	-10	137HY-10-10	HY10-10FJ45T
1 1/16x12	-12	5/8	-10	137HY-12-10	HY10-12FJ45T
1 1/16x12	-12	3/4	-12	137HY-12-12	HY12-12FJ45T
1 5/16x12	-16	3/4	-12	137HY-16-12	HY12-16FJ45T
1 5/16x12	-16	1	-16	137HY-16-16	HY16-16FJ45T

**Female JIC 37° Swivel - 90°
 Elbow - Short Drop**

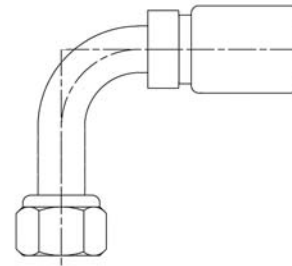
**139HY
 (HY-FJ90T)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-4	139HY-4-4	HY04-04FJ90T
1/2x20	-5	1/4	-4	139HY-5-4	HY04-05FJ90T
9/16x18	-6	1/4	-4	139HY-6-4	HY04-06FJ90T
9/16x18	-6	3/8	-6	139HY-6-6	HY06-06FJ90T
3/4x16	-8	3/8	-6	139HY-8-6	HY06-08FJ90T
3/4x16	-8	1/2	-8	139HY-8-8	HY08-08FJ90T
7/8x14	-10	1/2	-8	139HY-10-8	HY08-10FJ90T
7/8x14	-10	5/8	-10	139HY-10-10	HY10-10FJ90T
7/8x14	-10	3/4	-12	139HY-10-12	HY12-10FJ90T
1 1/16x12	-12	1/2	-8	139HY-12-8	HY08-12FJ90T
1 1/16x12	-12	5/8	-10	139HY-12-10	HY10-12FJ90T
1 1/16x12	-12	3/4	-12	139HY-12-12	HY12-12FJ90T
1 5/16x12	-16	3/4	-12	139HY-16-12	HY12-16FJ90T
1 5/16x12	-16	1	-16	139HY-16-16	HY16-16FJ90T

**Female JIC 37° Swivel - 90°
 Elbow - Long Drop**

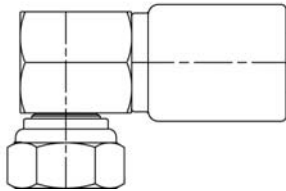
**141HY (HY-
 FJ90TL)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-4	141HY-4-4	HY04-04FJ90TL
1/2x20	-5	1/4	-4	141HY-5-4	HY04-05FJ90TL
9/16x18	-6	1/4	-4	141HY-6-4	HY04-06FJ90TL
9/16x18	-6	3/8	-6	141HY-6-6	HY06-06FJ90TL
3/4x16	-8	3/8	-6	141HY-8-6	HY06-08FJ90TL
3/4x16	-8	1/2	-8	141HY-8-8	HY08-08FJ90TL
7/8x14	-10	1/2	-8	141HY-10-8	HY08-10FJ90TL
1 1/16x12	-12	3/4	-12	141HY-12-12	HY12-12FJ90TL
1 5/16x12	-16	1	-16	141HY-16-16	HY16-16FJ90TL

Female JIC 37° Swivel - 90° Elbow - Block Type

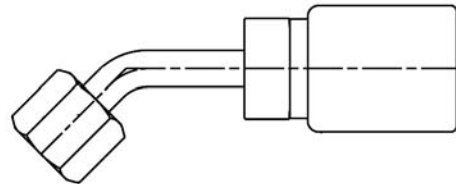
**193HY
(HY-FJ90)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-6	3/8	-6	193HY-6-6	HY06-06FJ90
3/4x16	-8	1/2	-8	193HY-8-8	HY08-08FJ90
7/8x14	-10	1/2	-8	193HY-10-8	HY08-10FJ90
7/8x14	-10	3/4	-12	193HY-10-12	HY12-10FJ90
1-1/16x12	-12	3/4	-12	193HY-12-12	HY12-12FJ90

Female SAE 45° Swivel - 45° Elbow

**177HY
(HY-FA45T)**

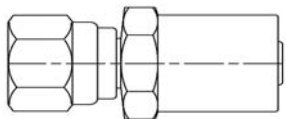


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/2x20	-5	3/8	-6	177HY-5-6	HY06-05FA45T
5/8x18	-6	3/8	-6	177HY-6-6	HY06-06FA45T

Note: Notch in nut for SAE 45° flare.

Female SAE 45° Swivel - Straight

108HY (HY-FA)

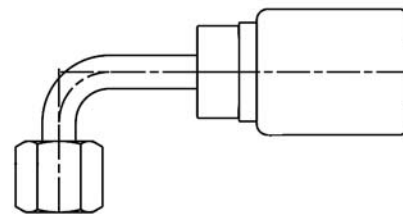


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	1/4	-4	108HY-4-4	HY04-04FA
1/2x20	-5	1/4	-4	108HY-5-4	HY04-05FA
5/8x18	-6	1/4	-4	108HY-6-4	HY04-06FA
5/8x18	-6	3/8	-6	108HY-6-6	HY06-06FA
3/4x16	-8	3/8	-6	108HY-8-6	HY06-08FA
3/4x16	-8	1/2	-8	108HY-8-8	HY08-08FA
7/8x14	-10	1/2	-8	108HY-10-8	HY08-10FA

Note: Notch in nut for SAE 45° flare.

Female SAE 45° - Swivel - 90° Elbow

**179HY
(HY-FA90T)**

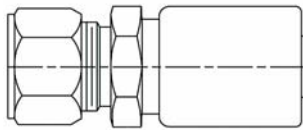


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x20	-4	3/8	-6	179HY-4-6	HY06-04FA90T
5/8x18	-6	3/8	-6	179HY-6-6	HY06-06FA90T
1-1/16x14	-12	3/4	-12	179HY-12-12	HY12-12FA90T

Note: Notch in nut for SAE 45° flare.

Male Ferulok Flareless - Rigid - Straight (24° Cone w/ Nut and Ferrule)

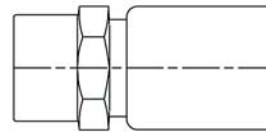
111HY (HY-MV, HY-MH and HY-MM)



Thread		Hose		Parker Part No.	Dayco Part No.
inch		inch			
1/2x20	-4	1/4	-4	111HY-4-4	HY04-04MH
7/16x20	-4	1/4	-4	111HY-4-4	HY04-04MV
1/2x20	-4	3/8	-6	111HY-4-6	HY06-04MH
7/16x20	-4	3/8	-6	111HY-4-6	HY06-04MV
9/16x18	-5	3/8	-6	111HY-5-6	HY06-05MH
1/2x20	-5	3/8	-6	111HY-5-6	HY06-05MV
9/16x18	-6	1/4	-4	111HY-6-4	HY04-06MH
5/8x18	-6	3/8	-6	111HY-6-6	HY06-06MH
9/16x18	-6	3/8	-6	111HY-6-6	HY06-06MV
9/16x18	-6	3/8	-6	111HY-6-6	HY06-06MV
3/4x16	-8	3/8	-6	111HY-8-6	HY06-08MH
3/4x16	-8	3/8	-6	111HY-8-6	HY06-08MV
3/4x16	-8	1/2	-8	111HY-8-8	HY08-08MH
3/4x16	-8	1/2	-8	111HY-8-8	HY08-08MV
3/4x16	-8	1/2	-8	111HY-8-8	HY08-08MV
15/16x16	-10	1/2	-8	111HY-10-8	HY08-10MH
7/8x14	-10	1/2	-8	111HY-10-8	HY08-10MV
7/8x14	-10	1/2	-8	111HY-10-8	HY08-10MV
1-1/16x16	-12	3/4	-12	111HY-12-12	HY12-12MH
1-1/16x12	-12	3/4	-12	111HY-12-12	HY12-12MV
1-5/16x12	-16	1	-16	111HY-16-16	HY16-16MV

Female Grease Connection - Special PTF Taper Thread - Rigid - Straight

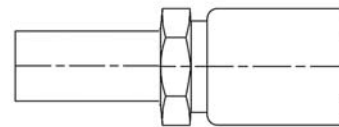
1GJHY (HY-NV)



Thread		Hose		Parker Part No.	Dayco Part No.
inch		inch			
1/2x27	-8	1/4	-4	1GJHY-8-4	HY04-08NV

Male Standpipe Rigid - Straight (Inch Size Tube O.D.)

134HY (HY-RL)

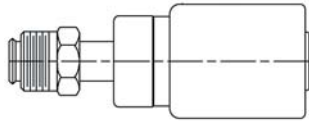


R		Hose		Parker Part No.	Dayco Part No.
inch		inch			
1/4	-4	1/4	-4	134HY-4-4	HY04-04RL
3/8	-6	1/4	-4	134HY-6-4	HY04-06RL
3/8	-6	3/8	-6	134HY-6-6	HY06-06RL
1/2	-8	3/8	-6	134HY-8-6	HY06-08RL
1/2	-8	1/2	-8	134HY-8-8	HY08-08RL
7/8	-10	1/2	-8	134HY-10-8	HY08-10RL
3/4	-12	5/8	-10	134HY-12-10	HY10-12RL
3/4	-12	3/4	-12	134HY-12-12	HY12-12RL
1	-16	1	-16	134HY-16-16	HY16-16RL

Note: 134HY requires the use of Ferrule nut (BU), Ferrule (TU), and Ferulok Fittings.

Male Inverted SAE 45°
Swivel - Straight

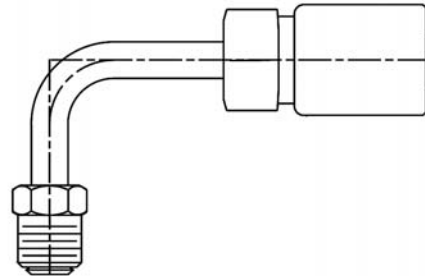
128HY
(HY-MF)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
3/8x24	-3	1/4	-4	128HY-3-4	HY04-03MF
7/16x24	-4	1/4	-4	128HY-4-4	HY04-04MF
1/2x20	-5	1/4	-4	128HY-5-4	HY04-05MF
1/2x20	-5	3/8	-6	128HY-5-6	HY06-05MF
5/8x18	-6	3/8	-6	128HY-6-6	HY06-06MF
3/4x18	-8	3/8	-8	128HY-8-6	HY06-08MF
3/4x18	-8	1/2	-8	128HY-8-8	HY08-08MF

Male Inverted SAE 45° -
Swivel - 90° Elbow

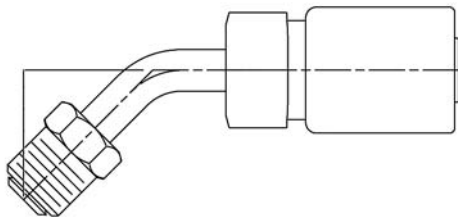
169HY
(HY-MF90T)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
3/8x24	-3	1/4	-4	169HY-3-4	HY04-03MF90T
7/16x24	-4	1/4	-4	169HY-4-4	HY04-04MF90T
7/16x24	-4	3/8	-6	169HY-4-6	HY06-04MF90T
1/2x20	-5	1/4	-4	169HY-5-4	HY04-05MF90T
1/2x20	-5	3/8	-6	169HY-5-6	HY06-05MF90T
5/8x18	-6	3/8	-6	169HY-6-6	HY06-06MF90T
11/16x18	-7	3/8	-6	169HY-7-6	HY06-07MF90T
3/4x18	-8	3/8	-6	169HY-8-6	HY06-08MF90T
3/4x18	-8	1/2	-8	169HY-8-8	HY08-08MF90T

Male Inverted SAE 45°
Swivel - 45° Elbow

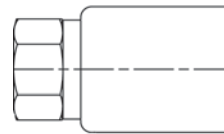
167HY
(HY-MF45T)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
3/8x24	-3	1/4	-4	167HY-3-4	HY04-03MF45T
7/16x24	-4	1/4	-4	167HY-4-4	HY04-04MF45T
7/16x24	-4	3/8	-6	167HY-4-6	HY06-04MF45T
1/2x20	-5	1/4	-4	167HY-5-4	HY04-05MF45T
1/2x20	-5	3/8	-6	167HY-5-6	HY06-05MF45T
5/8x18	-6	3/8	-6	167HY-6-6	HY06-06MF45T
3/4x18	-8	1/2	-8	167HY-8-8	HY08-08MF45T

Female Inverted SAE 45°
Rigid - Straight

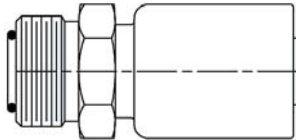
129HY
(HY-NG)



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
7/16x24	-4	1/4	-4	129HY-4-4	HY04-04NG
1/2x20	-5	1/4	-5	129HY-5-4	HY04-05NG
5/8x18	-6	3/8	-6	129HY-6-6	HY06-06NG

Male Seal-Lok® Rigid - Straight (with O-Ring)

**1J0HY
(HY-OM)**

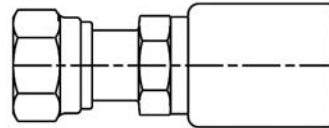


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-4	1/4	-4	1J0HY-4-4	HY04-04OM
11/16x16	-6	3/8	-6	1J0HY-6-6	HY06-06OM
13/16x16	-8	1/2	-8	1J0HY-8-8	HY08-08OM
1 3/16x12	-12	1/2	-8	1J0HY-12-8	HY08-12OM

Note: Seal-Lok® torque table in Section G of Catalog 4400.
 Note: Seal-Lok® O-Rings are listed in Section F of Catalog 4400.

Female Seal-Lok® Swivel - Straight - Long

**1JSHY
(HY-OFT)**

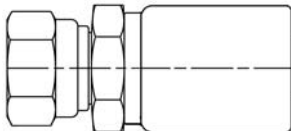


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-4	1/4	-4	1JSHY-4-4	HY04-04OFT
11/16x16	-6	1/4	-4	1JSHY-6-4	HY04-06OFT
11/16x16	-6	3/8	-6	1JSHY-6-6	HY06-06OFT
11/16x16	-6	1/2	-8	1JSHY-6-8	HY08-06OFT
13/16x16	-8	3/8	-6	1JSHY-8-6	HY06-08OFT
13/16x16	-8	1/2	-8	1JSHY-8-8	HY08-08OFT
1x14	-10	1/2	-8	1JSHY-10-8	HY08-10OFT
1x14	-10	5/8	-10	1JSHY-10-10	HY10-10OFT
1x14	-10	3/4	-12	1JSHY-10-12	HY12-10OFT
1 3/16x12	-12	5/8	-10	1JSHY-12-10	HY10-12OFT
1 3/16 x12	-12	3/4	-12	1JSHY-12-12	HY12-12OFT
1 7/16x12	-16	3/4	-12	1JSHY-16-12	HY12-16OFT
1 7/16x12	-16	1	-16	1JSHY-16-16	HY16-16OFT
1 11/16x12	-20	1	-16	1JSHY-20-16	HY16-20OFT

Note: Seal-Lok® torque table in Section G of Catalog 4400.
 Note: Seal-Lok® O-Rings are listed in Section F of Catalog 4400.

Female Seal-Lok® Swivel - Straight - Short

**1JCHY
(HY-OF)**

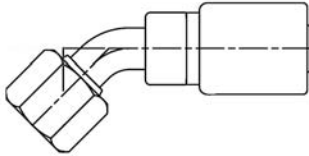


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-4	1/4	-4	1JCHY-4-4	HY04-04OF
11/16x16	-6	3/8	-6	1JCHY-6-6	HY06-06OF
13/16x16	-8	1/2	-8	1JCHY-8-8	HY08-08OF
1 3/16x12	-12	3/4	-12	1JCHY-12-12	HY12-12OF

Note: Seal-Lok® torque table in Section G of Catalog 4400.
 Note: Seal-Lok® O-Rings are listed in Section F of Catalog 4400.

**Female Seal-Lok® Swivel -
 45° Elbow**

**1J7HY
 (HY-OF45T)**

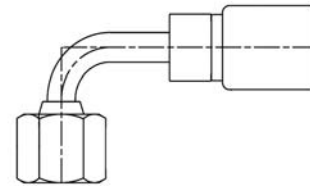


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-4	1/4	-4	1J7HY-4-4	HY04-04OF45T
11/16x16	-6	1/4	-4	1J7HY-6-4	HY04-06OF45T
11/16x16	-6	3/8	-6	1J7HY-6-6	HY06-06OF45T
11/16x16	-6	1/2	-8	1J7HY-6-8	HY08-06OF45T
13/16x16	-8	3/8	-6	1J7HY-8-6	HY06-08OF45T
13/16x16	-8	1/2	-8	1J7HY-8-8	HY08-08OF45T
1x14	-10	1/2	-8	1J7HY-10-8	HY08-10OF45T
1x14	-10	5/8	-10	1J7HY-10-10	HY10-10OF45T
1x14	-10	3/4	-12	1J7HY-10-12	HY12-10OF45T
1 3/16x12	-12	5/8	-10	1J7HY-12-10	HY10-12OF45T
1 3/16x12	-12	3/4	-12	1J7HY-12-12	HY12-12OF45T
1 7/16x12	-16	3/4	-12	1J7HY-16-12	HY12-16OF45T
1 7/16x12	-16	1	-16	1J7HY-16-16	HY16-16OF45T

Note: Seal-Lok® torque table in Section G of Catalog 4400.
 Note: Seal-Lok® O-Rings are listed in Section F of Catalog 4400.

**Female Seal-Lok® Swivel -
 90° Elbow - Short Drop**

**1J9HY
 (HY-OF90T)**

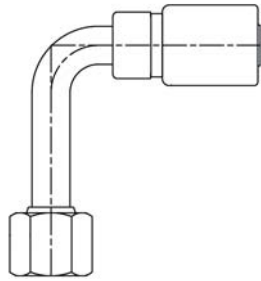


Thread inch		Hose inch		Parker Part No.	Dayco Part No.
9/16x18	-4	1/4	-4	1J9HY-4-4	HY04-04OF90T
9/16x18	-4	3/8	-6	1J9HY-4-6	HY06-04OF90T
11/16x16	-6	1/4	-4	1J9HY-6-4	HY04-06OF90T
11/16x16	-6	3/8	-6	1J9HY-6-6	HY06-06OF90T
11/16x16	-6	1/2	-8	1J9HY-6-8	HY08-06OF90T
13/16x16	-8	3/8	-6	1J9HY-8-6	HY06-08OF90T
13/16x16	-8	1/2	-8	1J9HY-8-8	HY08-08OF90T
1x14	-10	1/2	-8	1J9HY-10-8	HY08-10OF90T
1x14	-10	5/8	-10	1J9HY-10-10	HY10-10OF90T
1 3/16x12	-12	5/8	-10	1J9HY-12-10	HY10-12OF90T
1 3/16x12	-12	3/4	-12	1J9HY-12-12	HY12-12OF90T
1 7/16x12	-16	3/4	-12	1J9HY-16-12	HY12-16OF90T
1 7/16x12	-16	1	-16	1J9HY-16-16	HY16-16OF90T

Note: Seal-Lok® torque table in Section G of Catalog 4400.
 Note: Seal-Lok® O-Rings are listed in Section F of Catalog 4400.

**Female Seal-Lok® Swivel -
90° Elbow - Long Drop**

**1J1HY
(HY-OF90TL)**

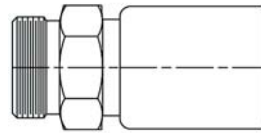


Thread		Hose		Parker Part Number	Dayco Part Number
inch		inch			
9/16x18	-4	1/4	-4	1J1HY-4-4	HY04-04OF90TL
11/16x16	-6	3/8	-6	1J1HY-6-6	HY06-06OF90TL
13/16x16	-8	1/2	-8	1J1HY-8-8	HY08-08OF90TL
1x14	-10	1/2	-8	1J1HY-10-8	HY08-10OF90TL
1x14	-10	5/8	-10	1J1HY-10-10	HY10-10OF90TL
1-3/16x12	-12	3/4	-12	1J1HY-12-12	HY12-12OF90TL
1-7/16x12	-16	1	-16	1J1HY-16-16	HY16-16OF90TL

Note: Seal-Lok® torque table in Section G of Catalog 4400.
Note: Seal-Lok® O-Rings are listed in Section F of Catalog 4400.

**Male Metric L Rigid -
Straight (24° Cone)**

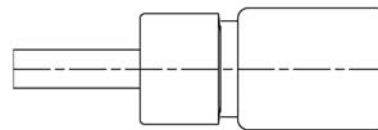
**1D0HY
(HY-MZ)**



Thread			Hose		Parker Part No.	Dayco Part No.
	mm		inch			
6	M12x1.5	-6	1/4	-4	1D0HY-6-4	HY04-06MZ12A
8	M14x1.5	-8	1/4	-4	1D0HY-8-4	HY04-08MZ14A
10	M16x1.5	-10	1/4	-4	1D0HY-10-4	HY04-10MZ16A
10	M16x1.5	-10	5/16	-5	1D0HY-10-5	HY05-10MZ16A
12	M18x1.5	-12	5/16	-5	1D0HY-12-5	HY05-12MZ18A
10	M16x1.5	-10	3/8	-6	1D0HY-10-6	HY06-10MZ16A
12	M18x1.5	-12	3/8	-6	1D0HY-12-6	HY06-12MZ18A
15	M22x1.5	-15	3/8	-6	1D0HY-15-6	HY06-15MZ22A
15	M22x1.5	-15	1/2	-8	1D0HY-15-8	HY08-15MZ22A
18	M26x1.5	-18	5/8	-10	1D0HY-18-10	HY10-18MZ26A
22	M30x2.0	-22	3/4	-12	1D0HY-22-12	HY12-22MZ30B
28	M36x2.0	-28	1	-16	1D0HY-28-16	HY16-28MZ36B

**Male Standpipe Metric S -
Rigid - Straight**

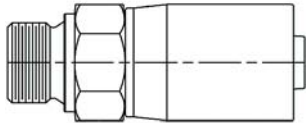
**13DHY
(HY-RZT)**



R		Hose		Parker Part No.	Dayco Part No.
	mm	inch			
16	-16	1/2	-8	13DHY-16-8	HY08-16RZST
20	-20	5/8	-10	13DHY-20-10	HY10-20RZST
25	-25	3/4	-12	13DHY-25-12	HY12-25RZST

Male BSP Parallel Pipe - Rigid - Straight (60° Cone)

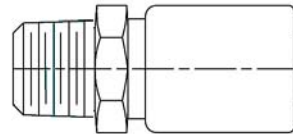
**1D9HY
(HY-BP)**



Thread mm		Hose inch		Parker Part No.	Dayco Part No.
1/4x19	-4	1/4	-4		
3/8x19	-6	3/8	-6	1D9HY-6-6	HY06-06BP
3/8x19	-6	1/2	-8	1D9HY-6-8	HY08-06BP
1/2x14	-8	1/2	-8	1D9HY-8-8	HY08-08BP
3/4x14	-12	3/4	-12	1D9HY-12-12	HY12-12BP
1x11	-16	1	-16	1D9HY-16-16	HY16-16BP

Male BSP Taper Pipe Rigid - Straight

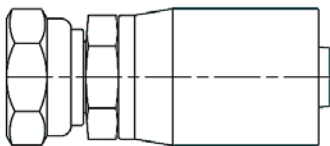
**1UTHY
(HY-BT)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/4x19	-4	1/4	-4		
3/8x19	-6	1/4	-4	1UTHY-6-4	HY04-06BT
3/8x19	-6	3/8	-6	1UTHY-6-6	HY06-06BT
1/2x14	-8	3/8	-8	1UTHY-8-6	HY06-08BT
1/2x14	-8	1/2	-8	1UTHY-8-8	HY06-08BT
3/4x14	-12	3/4	-12	1UTHY-12-12	HY12-12BT
1x11	-16	1	-16	1UTHY-16-16	HY16-16BT

Female BSP Parallel Pipe - Swivel - Straight (60° Flare)

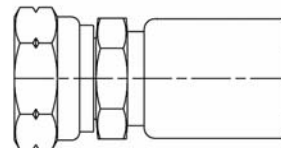
**1GUHY
(HY-BPF)**



Thread inch		Hose inch		Parker Part No.	Dayco Part No.
1/8x28	-2	1/4	-4		
1/4x19	-4	1/4	-4	1GUHY-4-4	HY04-04BPF
1/4x19	-4	3/8	-6	1GUHY-4-6	HY06-04BPF
3/8x19	-6	1/4	-4	1GUHY-6-4	HY04-06BPF
3/8x19	-6	3/8	-6	1GUHY-6-6	HY06-06BPF
3/8x19	-6	1/2	-8	1GUHY-6-8	HY08-06BPF
1/2x14	-8	1/2	-8	1GUHY-8-8	HY08-08BPF
5/8x14	-10	5/8	-10	1GUHY-10-10	HY10-10BPF
3/4x14	-12	3/4	-12	1GUHY-12-12	HY12-12BPF
1x11	-16	1	-16	1GUHY-16-16	HY16-16BPF

Female Metric Swivel - Straight (30° Flare)

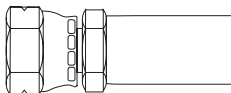
**1XUHY
(HY-KMF)**



Thread mm		Hose inch		Parker Part No.	Dayco Part No.
24	M24x1.5	-24	1/2		
24	M24x1.5	-24	5/8	1XUHY-24-10	HY10-24KMF
30	M30x1.5	-30	3/4	1XUHY-30-12	HY12-30KMF

**Female SAE 45° Swivel
 (Brass)**

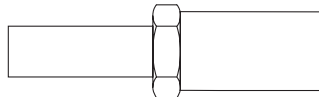
108MS



Thread Size	Tube O.D.	Cut-Off Allow.	Hose I.D.	Part No.
5/8-18	3/8	1	5/16	108MS-6-5B
5/8-18	3/8	1	3/8	108MS-6-6B

Straight Tube (Brass)

134MS



Tube O.D.	Hose I.D.	Cut-Off Allow.	Part No.
3/8	5/16	1 3/8	134MS-6-5B
3/8	3/8	1 3/8	134MS-6-6B



DANGER: Failure or improper selection or improper use of hose, fittings, or related accessories can cause death, personal injury and property damage.

Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric power lines or other sources of electricity.
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup.
- Sparking or explosion while paint or flammable liquid spraying.

Before selecting or using any Parker hose or fittings or related accessories, it is important that you read and follow the following instructions.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) hose (including all rubber and/or plastic products commonly called “hose” or “tubing”), fittings (including all products commonly called “fittings” or “couplings” for attachment to hose), and related accessories (including crimping and swaging machines and tooling). This safety guide is a supplement to and is to be used with, the specific Parker publications for the specific hose, fittings and related accessories that are being considered for use.

1.2 Fail-Safe: Hose and hose assemblies can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the hose or hose assembly will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using hose and fitting products. Do not select or use hose and fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and uses for hose and fittings, Parker and its distributors do not represent or warrant that any particular hose or fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the hose and fitting.

- Assuring that the users requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the hose and fittings are used.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, for telephone numbers of the appropriate technical service department.

2.0 HOSE AND FITTING SELECTION INSTRUCTIONS

2.1 Electrical Conductivity: Certain applications require that a hose be nonconductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting hose and fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

For applications that require hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special nonconductive hose can be used. The manufacturer of the equipment in which the nonconductive hose is to be used must be consulted to be certain that the hose and fittings that are selected are proper for the application. Do not use any Parker hose or fitting for any such application requiring nonconductive hose, including but not limited to applications near high voltage electric lines, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the hose is both

orange color and marked “nonconductive,” and (iii) the manufacturer of the equipment on which the hose is to be used specifically approves the particular Parker hose and fitting for such use.

The electrical conductivity or nonconductivity of hose and fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the hose and the fittings, manufacturing methods (including moisture control), how the fittings contact the hose, age and amount of deterioration of damage or other changes, moisture content of the hose at any particular time, and other factors.

Parker manufactures a special hose for conveying paint in airless paint spraying applications. This hose is labeled “Electrically Conductive Airless Paint Spray Hose” on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge buildup which occurs in all airless paint spraying. Do not use any other hose, even if electrically conductive, for airless paint spraying. Use of any other hose or failure to properly connect the hose can cause a fire or an explosion resulting in death, personal injury, and property damage.

Parker manufactures a special hose for certain compressed natural gas (CNG) applications where static electricity buildup may occur. Parker CNG hose assemblies comply with AGA Requirements 1-93, “Hoses for Natural Gas Vehicles and Fuel Dispensers”. This hose is labeled “Electrically Conductive for CNG Use” on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge buildup which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other hose, even if electrically conductive, for CNG transfer where static charge buildup may occur. Use of any other hose in such application or failure to properly connect this hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against dangerous gas permeation through the hose wall. See section 2.6, Permeation, for more information.

Parker CNG hose is intended for dispenser and vehicle use at maximum temperature of 180°F. Parker CNG hose should not be used in confined spaces or areas exceeding 180°F. Final Assemblies must be tested for leaks. Caution: Matches, candles, open flame or other sources of ignition shall not be used for this purpose. Leak check solutions should be rinsed off after use. Special care should be taken to ensure the hose is not

kinked, twisted, torque, exposed to abusive environmental conditions specified in Section 2.9, or exceed the pressure requirements specified in Section 2.2, “Pressure”. Hose assemblies should be tested on at least a monthly basis per Section 4.2 “Visual Inspection Hose/Fitting”. Recommended procedures are to pressurize the hose and check for leaks and to visually inspect the hose for damage. Hose assemblies should be tested on a monthly basis for conductivity per AGA 1-93.

- 2.2 Pressure:** Hose selection must be made so that the published maximum recommended working pressure of the hose is equal to or greater than the maximum system pressure. Surge pressures in the system higher than the published maximum recommended working pressure will cause failure or shorten hose life. Do not confuse burst pressure or other pressure values with working pressure and do not use burst pressure or other pressure values for this purpose.
- 2.3 Suction:** Hoses used for suction applications must be selected to insure that the hose will withstand the vacuum and pressure of the system. Improperly selected hose may collapse in suction application.
- 2.4 Temperature:** Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the hose. Temperatures below and above the recommended limit can degrade hose to a point where a failure may occur and release fluid. Care must be taken when routing hose near hot objects (e.g. manifolds) to properly insulate and protect the hose.
- 2.5 Fluid Compatibility:** Hose selection must assure compatibility of the hose tube, cover, reinforcement, and fittings with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis.
- 2.6 Permeation:** Permeation (that is, seepage through the hose) will occur from inside the hose to outside when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, fuel oil, natural gas, or freon). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use hose if this

permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a hose even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the hose assembly.

Permeation of moisture from outside the hose to inside the hose will also occur in hose assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.

- 2.7 Size:** Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.
- 2.8 Routing:** Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to hose collapse).
- 2.9 Environment:** Care must be taken to insure that the hose and fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.
- 2.10 Mechanical Loads:** External forces can significantly reduce hose life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adapters may be required to insure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.
- 2.11 Physical Damage:** Care must be taken to protect hose from wear, snagging and cutting, which can cause premature hose failure.
- 2.12 Proper End Fitting:** See instructions 3.2 through 3.5 below. These recommendations may be substantiated by testing to industry standards such as SAE J517.
- 2.13 Length:** When establishing a proper hose length, motion absorption, hose length changes due to pressure, and hose and machine tolerances must be considered.
- 2.14 Specifications and Standards:** When selecting hose and fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.
- 2.15 Hose Cleanliness:** Hose components may vary in cleanliness levels. Care must be taken to insure that the assembly selected has an adequate level of cleanliness for the application.
- 2.16 Fire Resistant Fluids:** Some fire resistant fluids require the same hose as petroleum oil. Some use a special hose, while a few fluids will not work with any hose at all. See instructions 2.5 and 1.5. The wrong hose may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.
- 2.17 Radiant Heat:** Hose can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the hose.
- 2.18 Welding or Brazing:** When using a torch or arc-welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the hose and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including hose fittings and adapters, above 450°F (232°C) such as during welding, brazing, or soldering may emit deadly gases.
- 2.19 Atomic Radiation:** Atomic radiation affects all materials used in hose assemblies. Since the long term effects may be unknown, do not expose hose assemblies to atomic radiation.

3.0 HOSE AND FITTING ASSEMBLY AND INSTALLATION INSTRUCTIONS

- 3.1 Pre-Installation Inspection:** Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, catalog number, and length. In addition, the hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.

3.2 Hose and Fitting Assembly: Do not assemble a Parker fitting on a Parker hose that is not specifically listed by Parker for that fitting unless authorized in writing by the chief engineer of the appropriate Parker division. Do not assemble a Parker fitting on another manufacturer's hose or a Parker hose on another manufacturer's fitting unless (i) the chief engineer of the appropriate Parker division approves the assembly in writing, and (ii) the user verifies the assembly and the application through analysis and testing. See instruction 1.4 above.

The Parker published instructions must be followed for assembling the fittings on the hose. These instructions are provided in the Parker fitting catalog for the specific Parker fitting being used.

3.3 Related Accessories: Do not crimp or swage any Parker hose or fitting with anything but the proper listed Parker swage or crimp machine and dies and in accordance with Parker published instructions. Do not crimp or swage another manufacturer's hose fitting with a Parker crimp or swage die unless authorized in writing by the chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker hose fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the chief engineer of the appropriate Parker division.

3.5 Reusable/Permanent: Do not reuse any reusable hose product that has blown or pulled off a hose. Do not reuse a Parker permanent (that is, crimped or swaged) hose fitting or any part thereof.

3.6 Minimum Bend Radius: Installation of a hose at less than the minimum listed bend radius may significantly reduce the hose life. Particular attention must be given to preclude sharp bending at the hose/fitting juncture.

3.7 Twist Angle and Orientation: Hose installations must be such that relative motion of machine components does not produce twisting.

3.8 Securement: In many applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.

3.9 Proper Connection of Ports: Proper physical installation of the hose requires a correctly installed port connection insuring that no twist or torque is transferred to the hose.

3.10 External Damage: Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.11 System Checkout: All air entrapment must be eliminated and the system pressurized to the maximum system pressure and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.

3.12 Routing: Hose should be routed in such a manner so if a failure does occur, oil mist will not come into contact with hot surfaces, open flame, or sparks, and the chance of personal injury is minimized.

4.0 HOSE AND FITTING MAINTENANCE INSTRUCTIONS

4.1 Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.7, listed below.

4.2 Visual Inspection Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the hose assembly:

- Fitting slippage on hose;
- Damaged, cut or abraded cover (any reinforcement exposed);
- Hard, stiff, heat cracked, or charred hose;
- Cracked, damaged, or badly corroded fittings;
- Leaks at fitting or in hose;
- Kinked, crushed, flattened or twisted hose; and
- Blistered, soft, degraded, or loose cover.

4.3 Visual Inspection All Other: The following items must be tightened, repaired or replaced as required:

- Leaking port conditions;
- Remove excess dirt buildup;
- Clamps, guards, shields; and
- System fluid level, fluid type and any air entrapment.

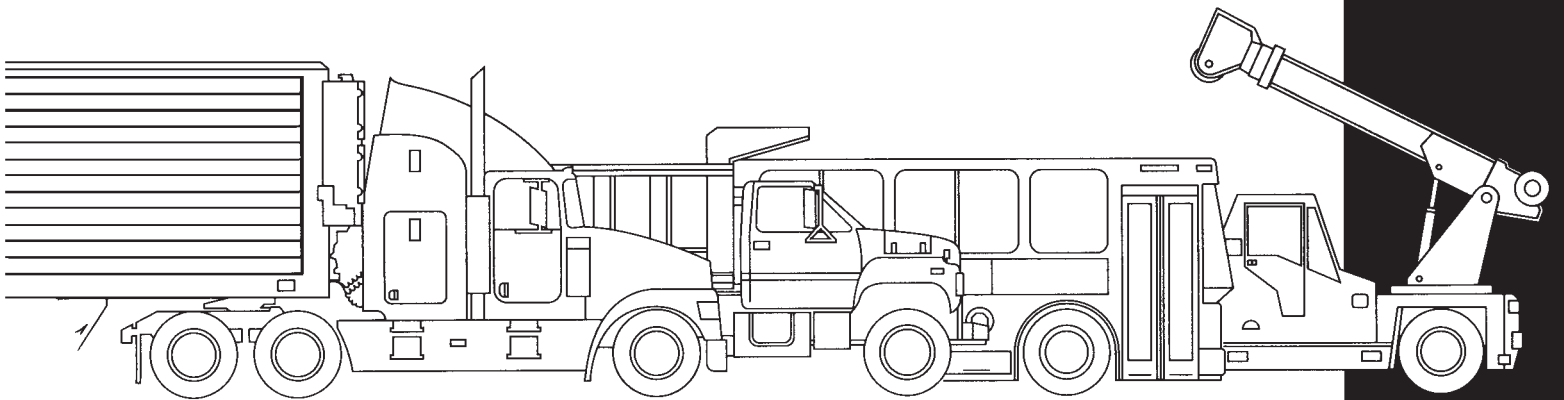
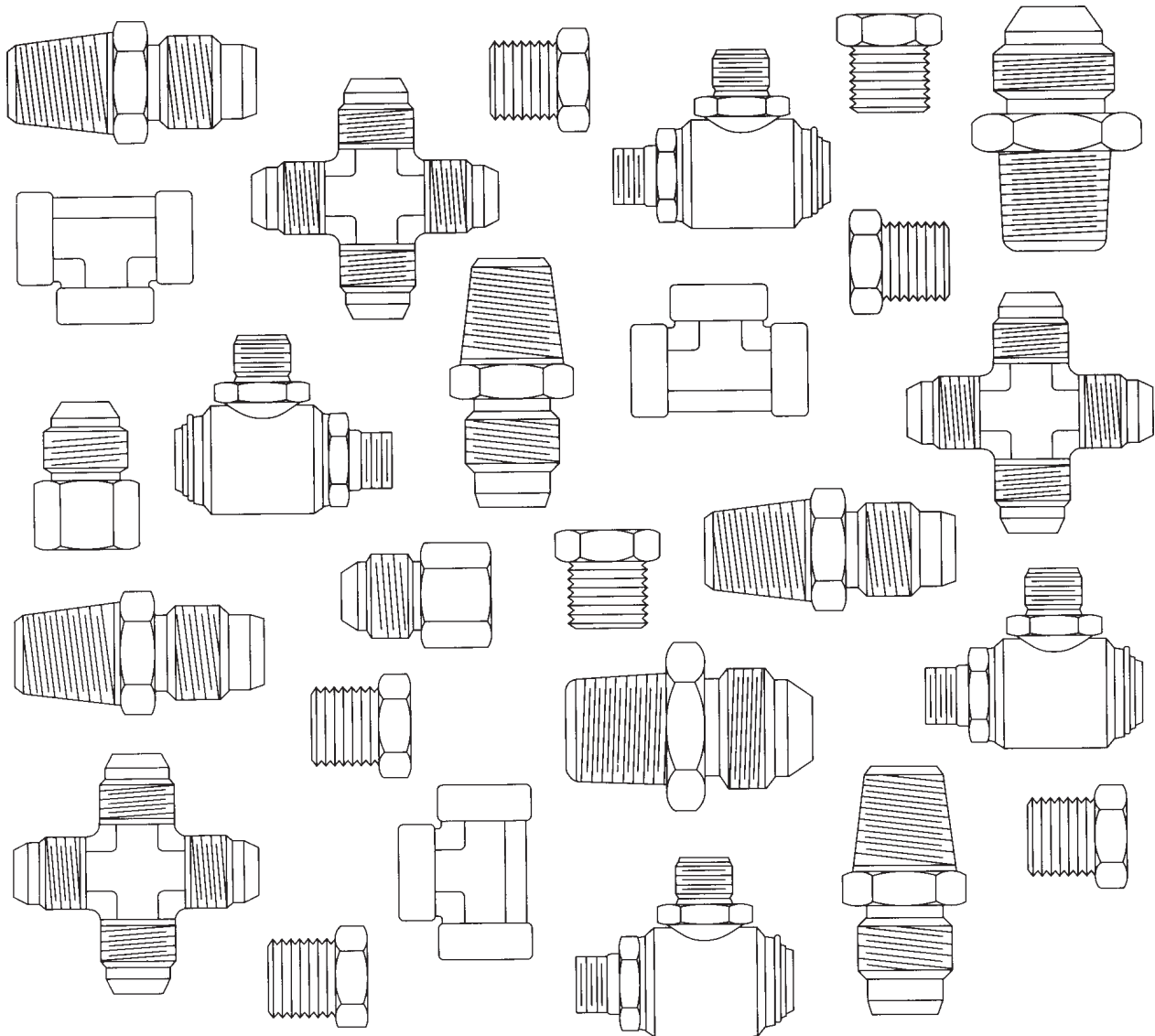
- 4.4 Functional Test:** Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.
- 4.5 Replacement Intervals:** Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See instructions 1.2 above.
- 4.6 Inspecting a Pressurized System:** Hydraulic power is accomplished by utilizing high-pressure fluids to do work. Hoses, fittings, and hose assemblies all contribute to doing work by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the hoses transporting the fluids. From time to time, hose assemblies will fail. Usually these failures are the result of some form of misapplication, abuse, or simply wear. When hoses fail, generally the high-pressure fluids inside escape in some sort of stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by “feeling” with their hands or any other part of their body. High-pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the hose assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the hose assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a hose assembly even when pumps or equipment are not operating. Tiny holes in the hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the hose assembly may be examined safely.

Once the pressure has been reduced to zero, the hose assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a hose assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for hose assembly replacement information.

Never touch or examine a failed hose assembly unless it is obvious that the hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

- 4.7 Refrigerant gases:** Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.



General Description

pg. E2*

*See page 32 of the introductory section for “How to Order” information

Visual Index

pg. E4

37° Flare Adapters

These adapters conform to the Hydraulic Tube Fitting Standard as published in J514 of the Society of Automotive Engineers (SAE) Handbook and to specifications of the former Joint Industry Conference (JIC) on Hydraulic Standards for Industrial Equipment.

pg. E9

Flange Adapters

Parker flange adapters for tube or hose feature compact, forged construction with optional Seal-Lok or 37° Flare end connections. The adapters are mounted to the port by split flange clamps and four bolts. They are available in two styles: low pressure Code 61 and high pressure Code 62, and meet or exceed all requirements of S.A.E. J518.

pg. E46

Hydraulic Swivel

Engineered to operate at pressures up to 3000 psi and 10 rpm for all sizes, the Parker Swivel Adapters can be used with hoses rated up to and including 3000 psi working pressures.

pg. E44

Metrics

Parker metric adapters offer you a wide range of international threads including BSPT, BSPP, metric straight and metric parallel. Metric pipe nipples and conversion adapters are also available.

pg. E22

Pipe (Hydraulic)

These adapters have Dryseal American (National Standard) taper (N.P.T.F.) pipe threads and unified class 2A male and 2B female straight threads.

pg. E38

Pipe Swivel

The female swivel end of these adapters is a straight pipe thread (NPSM) with a 30 degree seat. All male pipe fittings that are used with these female pipe swivel adapters must have a 30 degree seat in order to effect a proper seal. Parker male pipe hose fittings and male by female pipe swivel adapters contain this 30 degree seat.

pg. E42

Seal-Lok Metric Adapters

Seal-Lok Metric Adapters conform to ISO 8434-3 and SAE J1453 standards. The proven leak-free face seal connection, along with the metric hexes and forging flats and the ISO 6149-2 port end, make this an ideal choice for worldwide acceptability.

pg. E54

Seal-Lok O-Ring Adapters

Seal-Lok Adapters meet or exceed all requirements of SAE J1453. Pressure rating: 6000 PSI for sizes 1/4" through 1" O.D. tubing and up to 4000 psi for sizes 1-1/4" and 1-1/2". Suitable for sub-zero through elevated temperature applications. Service temperature is determined by the fitting material and the O-Ring compound.

pg. E48

Straight Thread O-Ring Boss

SAE Straight Thread with O-ring to perform sealing function.

pg. E35

Note: Please refer to Catalogs 3501-E, 4300 and 4400 for further information.



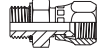



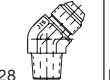
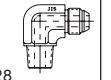
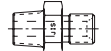
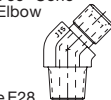
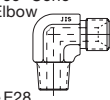
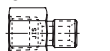
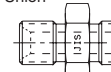








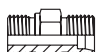
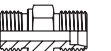






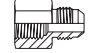


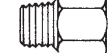

Adapters/37° Flare

JIC 37° Male to Straight Thread UNF 	5503/CC50X-S Long Straight Thread Elbow Page E10 	2503/C50X-S Straight Thread Elbow Page E11 	5E03/FF50X-S Long Straight Thread Connector Page E10 	0503/F50X-S Straight Thread Connector Page E11 	053T/R50X-S Straight Thread Run Tee Page E12 	253T/S50X-S Straight Thread Branch Tee Page E12 	3503/V50X-S 45° Straight Thread Elbow Page E12
JIC 37° Male to JIC 37° Male 	2303/ETX-S Union Elbow Page E12 	0303/HTX-S Union Page E13 	033T/JTX-S Union Tee Page E13 	033X/KTX-S Union Cross Page E13 	03L3/LHTX-S Large Hex Union Page E13 	Bulkhead Unions 	2353/WETX-S Bulkhead Union Elbow Page E14
533T/WJTX-S Bulkhead Run Tee Page E14 	543T/WJTX-S Bulkhead Branch Page E14 	3353/WNTX-S 45° Bulkhead Union Elbow Page E14 	0353/WTX-S Bulkhead Union Page E15 	JIC 37° Male to Female NPTF 	2203/DTX-S Female Elbow Page E15 	0203/GTX-S Female Connector Page E15 	023T/MTX-S Female Run Tee Page E16
223T/OTX-S Female Branch Tee Page E16 	0253/WGTX-S Female Bulkhead Connector Page E15 	JIC 37° Male to JIC 37° Female Swivel 	3903/C6X-S Swivel Nut Elbow Page E16 	063T/R6X-S Swivel Nut Run Tee Page E16 	393T/S6X-S Swivel Nut Branch Tee Page E17 	3703/V6X-S 45° Swivel Nut Elbow Page E17 	
JIC 37° Male to Male NPTF 	5703/CCCTX-S Extra Long Male Elbow Page E17 	5603/CCTX-S Long Male Elbow Page E17 	2103/CTX-S Male Elbow Page E18 	0103/FTX-S Male Connector Page E18 	013T/RTX-S Male Run Tee Page E19 	213T/STX-S Male Branch Tee Page E19 	3103/VTX-S 45° Male Elbow Page E19
Swivel Nut 	0106/F6X-S Swivel Connector Page E20 	0506/F650X-S Swivel Straight Thread Connector Page E20 	Auxiliary Components 	06B/BTX-S Nut Page E20 	06CP/FNTX-S Cap Page E20 	03CP/PNTX-S Plug Page E21 	0603/TRTX-S Tube End Reducer Page E21
06S/TX-S Inch Sleeve Page E21 	53N/WLN-S Bulkhead Locknut Page E21 	SAE-O-Ring Straight Thread Port O-Ring Page E35 					



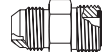

Adapters/37° Flared - Metric

JIC 37° Male to Male BSPT 	F3MXS Male Connector Page E26 	C3MXS Male Elbow Page E26 	V3MXS Male 45° Elbow Page E25 	JIC 37° Male to Male BSPP 	C40MXS Male Elbow Page E27 	F40MXS Male Connector Page E24 	V40MXS Male 45° Elbow Page E25
S40MXS Male Branch Tee Page E27 	R40MXS Male Run Tee Page E27 	JIC 37° Male to Female BSPP 	G4MXS Female Connector Page E25 	JIC 37° Male to Metric Straight Thread 	F80MXS Male Connector Page E24 	C80MXS Male Elbow Page E27 	


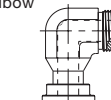
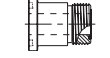


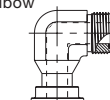
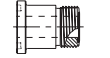

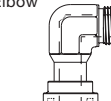
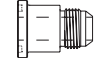

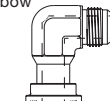
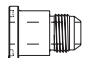

Adapters/37° Flared - Metric (Continued)

 <p>JIC 37° Female Swivel Nut</p>	<p>F63MXS 37° Swivel To Male BSPT</p>  <p>Page E24</p>	<p>F64OMXS 37° Swivel to Male BSPP</p>  <p>Page E25</p>	<p>F68OMXS 37° Swivel to Male Parallel Thread</p>  <p>Page E25</p>	 <p>Metric JIS Adapters</p>	<p>F3T4S Male JIS (BSPT) to Male 30° Flare (BSPP) - Straight</p>  <p>Page E27</p>	<p>V3T4S Male JIS (BSPT) to Male 30° Flare (BSPP) - 45° Elbow</p>  <p>Page E28</p>	<p>C3T4S Male JIS (BSPT) to Male 30° Flare (BSPP) - 90° Elbow</p>  <p>Page E28</p>
	<p>F3P4S Male JIS (BSPT) to Male 60° Cone - Straight</p>  <p>Page E28</p>	<p>V3P4S Male JIS (BSPT) to Male 60° Cone - 45° Elbow</p>  <p>Page E28</p>	<p>C3P4S Male JIS (BSPT) to Male 60° Cone - 90° Elbow</p>  <p>Page E28</p>		<p>G3P4S Female JIS (BSPT) to Male 60° Cone - Straight</p>  <p>Page E28</p>	<p>HP4S Male 60° Cone - Union</p>  <p>Page E29</p>	<p>F63P4S Male JIS (BSPT) to Female JIS (BSPP) 60° Cone Swivel</p>  <p>Page E29</p>
 <p>Metric BSP Adapters</p>	<p>GE-LRkeg. BSPT to "L" Series 24° Cone - Straight</p>  <p>Page E29</p>	<p>GE-LR-ED BSPP to "L" Series 24° Cone Eolastic Seal</p>  <p>Page E30</p>	<p>GE-LR BSPP to "L" Series 24° Cone Metal to Metal Seal</p>  <p>Page E30</p>	<p>GE-SR BSPP to "S" Series 24° Cone Metal to Metal Seal</p>  <p>Page E31</p>	<p>GE-SR-ED BSP to "S" Series 24° Cone Eolastic Seal</p>  <p>Page E31</p>	<p>GE-LM Metric Port to "L" Series 24° Cone Metal-to-Metal Seal</p>  <p>Page E32</p>	<p>GE-LM-ED Metric Port to "L" Series 24° Cone Eolastic Seal</p>  <p>Page E32</p>
	<p>GE-SM Metric Port to "S" Series 24° Cone Metal-to-Metal Seal</p>  <p>Page E33</p>	<p>GE-SM-ED Metric Port to "S" Series 24° Cone Eolastic Seal</p>  <p>Page E32</p>	<p>WE-LR BSPT Port to "L" Series 24° Cone - 90° Elbow</p>  <p>Page E33</p>	<p>WE-SR BSPT Port to "S" Series 24° Cone - 90° Elbow</p>  <p>Page E33</p>	<p>WE-LM Metric Tapered Port to "S" Series 24° Cone - 90° Elbow</p>  <p>Page E33</p>	<p>WE-SM Metric Tapered Port to "S" Series 24° Cone - 90° Elbow</p>  <p>Page E34</p>	
 <p>Metric Adapters</p>	<p>G4MXSMO Manometer Connection</p>  <p>Page E34</p>	<p>FF33 BSPT Pipe Nipple</p>  <p>Page E34</p>	<p>GG44 BSPP Female Union</p>  <p>Page E34</p>	<p>F3HG Conversion Adapter Male BSPT-Female NPT</p>  <p>Page E34</p>	<p>F4OHG Conversion Adapter Male BSPP-Female NPT</p>  <p>Page E34</p>		

Adapters/37° Flared Fittings to ORFS

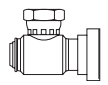
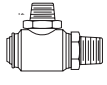
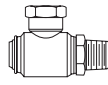
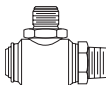
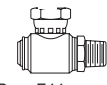

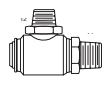
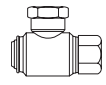
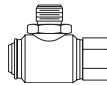
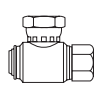
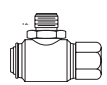
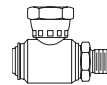

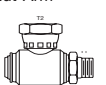
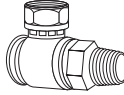


 <p>37° Flare Adapter</p>	<p>LOHX6-S 37° Female Swivel Adapter</p>  <p>Page E9</p>	<p>XHLO-S 37° Male Adapter</p>  <p>Page E9</p>	<p>XHL6-S 37° Male Connector</p>  <p>Page E9</p>				
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Adapters/Flange

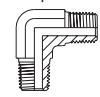

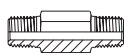
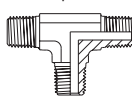



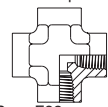
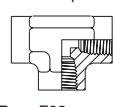



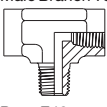
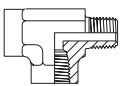


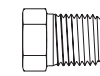
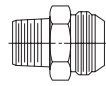
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	<p>XEQ1-S Elbow</p>  <p>Page E47</p>	<p>XHQ1-S Connector</p>  <p>Page E47</p>	<p>XVQ1-S 45° Elbow</p>  <p>Page E48</p>		<p>XEQ2-S Elbow</p>  <p>Page E47</p>	<p>XHQ2-S Connector</p>  <p>Page E48</p>	<p>XVQ2-S 45° Elbow</p>  <p>Page E48</p>

Adapters/Hydraulic Swivel

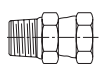

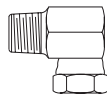


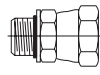

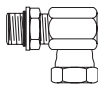
For more sizes and configurations of Hydraulic Swivels, consult QCD Catalog 3800 or contact your local Parker Fleet Representative.

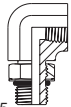
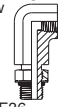







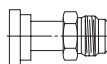


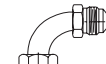


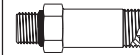





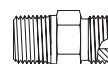


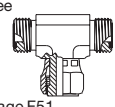
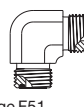

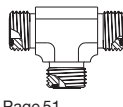

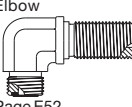
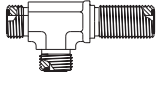
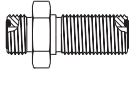
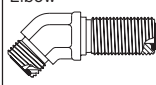
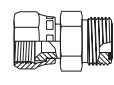

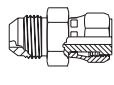





Code 61 Flange	S1907 Female Pipe Swivel  Page E43	Male Pipe Stem	S2101 Male Pipe Arm  Page E44	S2102 Female Pipe Arm  Page E44	S2103 Male (JIC) 37° Flare Arm  Page E44	S2107 Female Pipe Swivel Nut Arm  Page E44	S2107E Female Pipe Swivel Nut Arm Nickel Plated - EPR Seal  Page E44
Female Pipe Stem	S2201 Male Pipe Arm  Page E44	S2202 Female Pipe Arm  Page E45	S2203 Male (JIC) 37° Flare Arm  Page E45	S2207 Female Pipe Swivel Nut Arm  Page E45	Male (JIC) 37° Flare Stem	S2303 Male (JIC) 37° Flare Arm  Page E45	S2307 Female Pipe Swivel Nut Arm  Page E45
Straight Thread with O-Ring Stem	S2503 Male (JIC) 37° Flare Arm  Page E45	S2507 Female Pipe Swivel Nut Arm  Page E45	Repair Kits for S-Series Swivels	Round Body  Page E46	Hex Body  Page E46	Field Assembly Tool  Page E46	

Adapters/Pipe (Hydraulic)





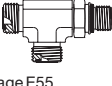




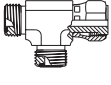



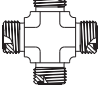
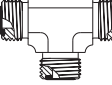

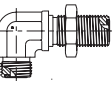
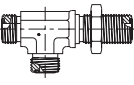
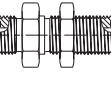
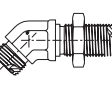
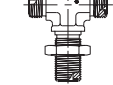







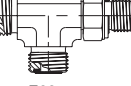




Male Pipe	2101/CR-S Male Pipe Elbow  Page E38	0101/FF-S Pipe Nipple  Page E38	FFF-S Long Pipe Nipple  Page E38	RRS-SS Male Pipe Tee  Page E38	Female Pipe	2202/DD-S Female Pipe Elbow  Page E38	4202/DD45-S Female 45° Pipe Elbow  Page E39
0202/GG-S Pipe Coupling  Page E39	022X/KMM00-S Female Pipe Cross  Page E39	022T/MMO-S Female Pipe Tee  Page E39	Male Pipe to Female Pipe	2102/CD-S Street Elbow  Page E39	3102/CD45-S 45° Street Elbow  Page E40	0201/FG-S Expander/Adapter  Page E40	212T/MMS-S Male Branch Tee  Page E40
012T/MRO-S Male Run Tee  Page E40	0102/PTR-S Pipe Thread Reducer  Page E41	Plugs	01HP/HHP-S Hollow Hex Plug  Page E41	01CP/HP-S Hex Head Plug  Page E41	0109 Male PTT Adapter  Page E41		

Adapters/ Pipe Swivel

Male Pipe (NPTF) Female Pipe Swivel (NPSM)	0107 Adapter  Page E42	3107 45° Elbow  Page E42	2107 90° Elbow  Page E43	Female Pipe (NPTF) Female Pipe Swivel (NPSM)	0207 Adapter  Page E42	2207 90° Elbow  Page E42	
SAE Straight Thread w/O-Ring Female Pipe Swivel (NPSM)	0507 Adapter  Page E43	3507 45° Elbow  Page E43	2507 90° Elbow  Page E43				

Adapters/ Straight Thread O-Ring Boss							
Straight Thread & Conversion Adapters	2502/AOEG-S Female Elbow  Page E35	5502/AOE4G-S Extra Long Female Elbow  Page E36	0505/F5OHAO-S Union  Page E36	0502/F5OG-S Female Pipe  Page E36	0510/F5OG5-S Reducer/Expander  Page E37	F3HG5-S Conversion Adapter  Page E37	F8OHG5/F4OHG5 Conversion Adapters  Page E37
	Plugs	05HP/HP5ON-S Hollow Hex Plug (Straight Thread)  Page E35	05CP/P5ON-S Hex Head Plug (Straight Thread)  Page E35				
Adapters/T3							
T3 Adapters	15T3 Straight Flange Connector  Page E9	17T3 45° Elbow Flange Connector  Page E9	19T3 90° Elbow Flange Connector  Page E10	39T3 Swivel Nut 90° Tube Elbow  Page E10	41T3 Swivel Nut 90° Tube Elbow - Long  Page E10		
Seal-Lok O-Ring Face Seal Adapters							
Male Seal-Lok to Straight Thread UNF	C5OLO-S Straight Thread Elbow  Page E48	FF5OLO-S Long Straight Thread Connector  Page E49	F5OLO-S Straight Thread Connector  Page E49	R5OLO-S Straight Thread Connector  Page E49	S5OLO-S Straight Thread Branch Tee  Page E49	V5OLO-S 45° Straight Thread Elbow  Page E50	
	Male Seal-Lok to Male NPTF	CLO-S Male Pipe Elbow  Page E50	FLO-S Male Pipe Connector  Page E50	Swivel to Straight Thread	AOEL6-S Straight Thread Swivel Elbow  Page E50	Male Seal-Lok to Seal-Lok Swivel	C6LO-S Swivel Nut Elbow  Page E51
S6LO-S Swivel Nut Branch Tee  Page F51	Male Seal-Lok to Male Seal-Lok	ELO-S Union Elbow  Page F51	HLO-S Union  Page F51	JLO-S Union Tee  Page 51	KLO-S Union Cross  Page F52	Bulkhead Unions	WELO-S Bulkhead Union Elbow  Page E52
WJLO-S Bulkhead Run Tee  Page E52	WLO-S Bulkhead Union  Page E52	WNLO-S 45° Bulkhead Union Elbow  Page E52	37° Flare Adapter	LOHX6-S 37° Swivel Adapter  Page E52	XHLO-S 37° Male Adapter  Page E53	XHL6-S 37° Male Connector  Page E53	
Auxiliary Components	BL-S Nut  Page E53	FNL-S Cap  Page E53	PNLO-S Plug  Page E53	TRLO-S Tube End Reducer  Page E54	WLNL Bulkhead Locknut  Page E54		

Seal-Lok Metric Adapters

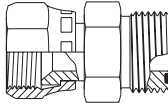
	<p>C87OMLO Metric Straight Thread 90° Male Elbow</p>  <p>Page E54</p>	<p>F87OMLO Metric Straight Thread Male Connector</p>  <p>Page E55</p>	<p>S87OMLO Metric Straight Thread Male Branch Tee</p>  <p>Page E55</p>	<p>R87OMLO Metric Straight Thread Run Tee</p>  <p>Page E55</p>	<p>V87OMLO Metric Straight Thread 45° Male Elbow</p>  <p>Page E56</p>		
	<p>C6MLO Swivel Nut Elbow</p>  <p>Page E56</p>	<p>S6MLO Swivel Nut Branch Tee</p>  <p>Page E56</p>	<p>R6MLO Swivel Nut Run Tee</p>  <p>Page E56</p>				
	<p>EMLO 90° Union Elbow</p>  <p>Page E56</p>	<p>HMLO Union Straight</p>  <p>Page E57</p>	<p>KMLO Union Cross</p>  <p>Page E57</p>	<p>JMLO Union Tee</p>  <p>Page E57</p>			
	<p>WEMLO Bulkhead Union Elbow</p>  <p>Page E57</p>	<p>WJMJLO Bulkhead Run Tee</p>  <p>Page E58</p>	<p>WMLO Bulkhead Union</p>  <p>Page E58</p>	<p>WNMLO 45° Bulkhead Union Elbow</p>  <p>Page E58</p>	<p>WJMLO Bulkhead Branch Tee</p>  <p>Page E58</p>		
	<p>BML Tube Nut</p>  <p>Page E59</p>	<p>PNMLO Plug</p>  <p>Page E59</p>	<p>WLNML Bulkhead Locknut</p>  <p>Page E59</p>				
	<p>C40MLO 90° Male BSPP Elbow</p>  <p>Page E59</p>	<p>F42EDMLO Male BSPP Connector</p>  <p>Page E60</p>	<p>R40MLO BSPP Run Tee</p>  <p>Page E60</p>	<p>S40MLO BSPP Branch Tee</p>  <p>Page E60</p>	<p>V40MLO BSPP 45° Male Elbow</p>  <p>Page E61</p>	<p>BSPP BSPP O-Ring & Retaining Ring</p>  <p>Page E61</p>	<p>ED Elastic Soft Seal for BSPP & Metric Threads</p>  <p>Page E61</p>

37° Female Swivel Adapter

LOHX6-S

37° Female Swivel / ORFS Tube End

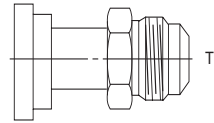
Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Tube Fitting Part No.
1/4	9/16-18	7/16-20	4 LOHX6-S
3/8	11/16-16	9/16-18	6 LOHX6-S
1/2	13/16-16	3/4-16	8 LOHX6-S
5/8	1-14	7/8-14	10 LOHX6-S
3/4	1 3/16-12	1 1/16-12	12 LOHX6-S
1	1 7/16-12	1 5/16-12	16 LOHX6-S



Straight Flange Connector *

15T3

SAE (Code 61) Flange - Male SAE (JIC) 37° Flare



Dash Size (Steel)	Flange Size	Tube Size	T1 Straight Thread	Part No.
8-8	1/2	1/2	3/4-16	15T3-8-8
12-12	3/4	3/4	1 1/16-12	15T3-12-12
16-12	1	3/4	1 1/16-12	15T3-16-12
16-16	1	1	1 5/16-12	15T3-16-16
20-16	1 1/4	1	1 5/16-12	15T3-20-16
20-20	1 1/4	1 1/4	1 5/8-12	15T3-20-20
24-24	1 1/2	1 1/2	1 7/8-12	15T3-24-24
32-32	2	2	2 1/2-12	15T3-32-32

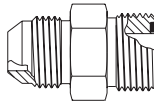
*Caution: Do not use any T3 adapters where pressures exceed SAE 100R2

37° Male Adapter

XHLO-S

37° Male Tube End / ORFS Tube End

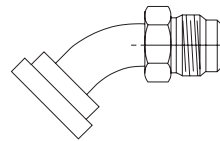
Tube O.D.	Tube End Un/Unf-2A	Tube End Un/Unf-2B	Tube Fitting Part No.
1/4	9/16-18	7/16-20	4 XHLO-S
3/8	11/16-16	9/16-18	6 XHLO-S
1/2	13/16-16	3/4-16	8 XHLO-S
5/8	1-14	7/8-14	10 XHLO-S
3/4	1 3/16-12	1 1/16-12	12 XHLO-S
1	1 7/16-12	1 5/16-12	16 XHLO-S
1 1/4	1 11/16-12	1 5/8-12	20 XHLO-S
1 1/2	2-12	1 7/8-12	24 XHLO-S



45° Elbow Flange Connector *

17T3

SAE (Code 61) Flange - Male SAE (JIC) 37° Flare



Dash Size (Steel)	Flange	Tube Size	Straight Thread	Part No.
8-8	1/2	1/2	3/4-16	17T3-8-8
12-12	3/4	3/4	1 1/16-12	17T3-12-12
16-12	1	3/4	1 1/16-12	17T3-16-12
16-16	1	1	1 5/16-12	17T3-16-16
20-16	1 1/4	1	1 5/16-12	17T3-20-16
20-20	1 1/4	1 1/4	1 5/8-12	17T3-20-20
24-20	1 1/2	1 1/4	1 5/8-12	17T3-24-20
24-24	1 1/2	1 1/2	1 7/8-12	17T3-24-24
32-32	2	2	1 1/2-12	17T3-32-32

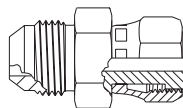
*Caution: Do not use any T3 adapters where pressures exceed SAE 100R2

37° Male Connector

XHL6-S

37° Male Tube End / ORFS Swivel

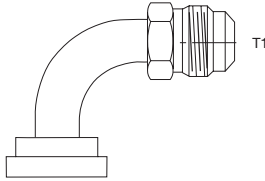
Tube O.D.	Tube THD Un/Unf-2A	Swivel Un/Unf-2B	Tube Fitting Part No.
1/4	7/16-20	9/16-18	4 XHL6-S
3/8	9/16-18	11/16-16	6 XHL6-S
1/2	3/4-16	13/16-16	8 XHL6-S
5/8	7/8-14	1-14	10 XHL6-S
3/4	1 1/16-12	1 3/16-12	12 XHL6-S
1	1 5/16-12	1 7/16-12	16 XHL6-S
1 1/4	1 5/8-12	1 11/16-12	20 XHL6-S



90° Elbow Flange Connector *

19T3

SAE (Code 61) Flange - Male SAE (JIC) 37° Flare



Dash Size (Steel)	Flange	Tube Size	T1 Straight Thread	Part No.
8-8	1/2	1/2	3/4-16	19T3-8-8
12-12	3/4	3/4	1 1/16-12	19T3-12-12
16-12	1	3/4	1 1/16-12	19T3-16-12
16-16	1	1	1 5/16-12	19T3-16-16
20-12	1 1/4	3/4	1 1/16-12	19T3-20-12
20-16	1 1/4	1	1 5/16-12	19T3-20-16
20-20	1 1/4	1 1/4	1 5/8-12	19T3-20-20
20-24	1 1/4	1 1/2	1 7/8-12	19T3-20-24
24-20	1 1/2	1 1/4	1 5/8-12	19T3-24-20
24-24	1 1/2	1 1/2	1 7/8-12	19T3-24-24
32-32	2	2	2 1/2-12	19T3-32-32

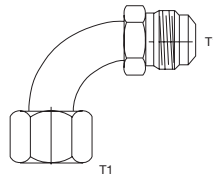
***Caution:** Do not use any T3 adapters where pressures exceed SAE 100R2

Swivel Nut 90° Tube Elbow *

39T3

Male SAE (JIC) 37° Flare - Female SAE (JIC) 37° Swivel

Dash Size (Steel)	T1 Straight Thread	Tube Size	Part No.
8-8	3/4-16	1/2	39T3-8-8
10-10	7/8-14	5/8	39T3-10-10
12-12	1 1/16-12	3/4	39T3-12-12
16-16	1 5/16-12	1	39T3-16-16
20-20	1 5/8-12	1 1/4	39T3-20-20



***Caution:** Do not use any T3 adapters where pressures exceed SAE 100R2

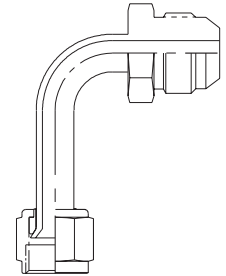
Swivel Nut 90° Tube Elbow Long*

41T3

Male SAE (JIC) 37° Flare - Female SAE (JIC) 37° Swivel

Dash Size (Steel)	Straight Thread	Tube Size	Part No.
8-8	3/4-16	1/2	41T3-8-8
10-10	1 1/16-12	5/8	41T3-10-10
12-12	1 1/16-12	3/4	41T3-12-12
16-16	1 5/16-12	1	41T3-16-16

***Caution:** Do not use any T3 adapters where pressures exceed SAE 100R2

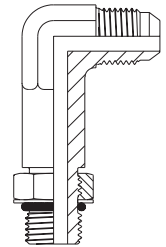


Long Straight Thread Elbow

5503 (CC50X-S)

Flare Tube End / Straight Thread O-Ring

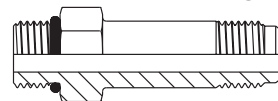
Port Thread UN/UNF-2A	Tube O.D.	Hose Fitting Part No.	Tube Fitting Part No.
7/16-20	1/4	5503-4-4	4 CC50X-S
9/16-8	3/8	5503-6-6	6 CC50X-S
3/4-16	1/2	5503-8-8	8 CC50X-S
7/8-14	5/8	5503-10-10	10 CC50X-S
1 1/16-12	3/4	5503-12-12	12 CC50X-S
1 5/16-12	1	5503-16-16	16 CC50X-S



Long Straight Thread Connector

5E03 (FF50X-S)

Flare Tube End / Straight Thread O-Ring

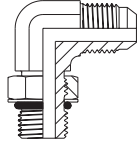


Port Thread UN/UNF-2A	Tube O.D.	Hose Fitting Part No.	Tube Fitting Part No.
7/16-20	1/4	5E03-4-4	4 FF50X-S
9/16-18	3/8	5E03-6-6	6 FF50X-S
3/4-16	1/2	5E03-8-8	8 FF50X-S
7/8-14	5/8	5E03-10-10	10 FF50X-S
1 1/16-12	3/4	5E03-12-12	12 FF50X-S
1 5/16-12	1	5E03-16-16	16 FF50X-S
1 5/8-12	1 1/4	5E03-20-20	20 FF50X-S

Straight Thread Elbow

2503 (C50X-S)

Flare Tube End / Straight Thread O-Ring

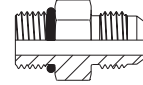


Tube O.D.	Tube End UN/UNF-2A	Port Thread UN/UNF-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	5/16-24	2503-2-2	2 C50X-S
3/16	3/8-24	3/8-24	2503-3-3	3 C50X-S
1/4	7/16-20	7/16-20	2503-4-4	4 C50X-S
1/4	7/16-20	9/16-18	2503-6-4	4-6 C50X-S
5/16	1/2-20	1/2-20	2503-5-5	5 C50X-S
5/16	1/2-20	9/16-18	2503-6-5	5-6 C50X-S
3/8	9/16-18	9/16-18	2503-6-6	6 C50X-S
3/8	9/16-18	7/16-20	2503-4-6	6-4 C50X-S
3/8	9/16-18	1/2-20	2503-5-6	6-5 C50X-S
3/8	9/16-18	3/4-16	2503-8-6	6-8 C50X-S
3/8	9/16-18	7/8-14	2503-10-6	6-10 C50X-S
1/2	3/4-16	3/4-16	2503-8-8	8 C50X-S
1/2	3/4-16	9/16-18	2503-6-8	8-6 C50X-S
1/2	3/4-16	7/8-14	2503-10-8	8-10 C50X-S
1/2	3/4-16	1 1/16-12	2503-12-8	8-12 C50X-S
5/8	7/8-14	7/8-14	2503-10-10	10 C50X-S
5/8	7/8-14	3/4-16	2503-8-10	10-8 C50X-S
5/8	7/8-14	1 1/16-12	2503-12-10	10-12 C50X-S
3/4	1 1/16-12	1 1/16-12	2503-12-12	12 C50X-S
3/4	1 1/16-12	3/4-16	2503-8-12	12-8 C50X-S
3/4	1 1/16-12	7/8-14	2503-10-12	12-10 C50X-S
3/4	1 1/16-12	1 5/16-12	2503-16-12	12-16 C50X-S
7/8	1 3/16-12	1 3/16-12	2503-14-14	14 C50X-S
1	1 5/16-12	1 5/16-12	2503-16-16	16 C50X-S
1	1 5/16-12	1 1/16-12	2503-12-16	16-12 C50X-S
1 1/4	1 5/8-12	1 5/8-12	2503-20-20	20 C50X-S
1 1/2	1 7/8-12	1 7/8-12	2503-24-24	24 C50X-S

Straight Thread Connector

0503 (F50X-S)

Flare Tube End / Straight Thread O-Ring

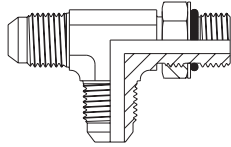


Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	5/16-24	0503-2-2	2 F50X-S
3/16	3/8-24	3/8-24	0503-3-3	3 F50X-S
1/4	7/16-20	7/16-20	0503-4-4	4 F50X-S
1/4	7/16-20	1/2-20	0503-5-4	4-5 F50X-S
1/4	7/16-20	9/16-18	0503-6-4	4-6 F50X-S
1/4	7/16-20	3/4-16	0503-8-4	4-8 F50X-S
5/16	1/2-20	1/2-20	0503-5-5	5 F50X-S
5/16	1/2-20	9/16-18	0503-6-5	5-6 F50X-S
3/8	9/16-18	9/16-18	0503-6-6	6 F50X-S
3/8	9/16-18	7/16-20	0503-4-6	6-4 F50X-S
3/8	9/16-18	1/2-20	0503-5-6	6-5 F50X-S
3/8	9/16-18	3/4-16	0503-8-6	6-8 F50X-S
3/8	9/16-18	7/8-14	0503-10-6	6-10 F50X-S
1/2	3/4-16	3/4-16	0503-8-8	8 F50X-S
1/2	3/4-16	9/16-18	0503-6-8	8-6 F50X-S
1/2	3/4-16	7/8-14	0503-10-8	8-10 F50X-S
1/2	3/4-16	1 1/16-12	0503-12-8	8-12 F50X-S
5/8	7/8-14	7/8-14	0503-10-10	10 F50X-S
5/8	7/8-14	3/4-16	0503-8-10	10-8 F50X-S
5/8	7/8-14	1 1/16-12	0503-12-10	10-12 F50X-S
3/4	1 1/16-12	1 1/16-12	0503-12-12	12 F50X-S
3/4	1 1/16-12	3/4-16	0503-8-12	12-8 F50X-S
3/4	1 1/16-12	7/8-14	0503-10-12	12-10 F50X-S
3/4	1 1/16-12	1 3/16-12	0503-14-12	12-14 F50X-S
3/4	1 1/16-12	1 5/16-12	0503-16-12	12-16 F50X-S
7/8	1 3/16-12	1 3/16-12	0503-14-14	14 F50X-S
7/8	1 3/16-12	1 5/16-12	0503-16-14	14-16 F50X-S
1	1 5/16-12	1 5/16-12	0503-16-16	16 F50X-S
1	1 5/16-12	7/8-14	0503-10-16	16-10 F50X-S
1	1 5/16-12	1 1/16-12	0503-12-16	16-12 F50X-S
1	1 5/16-12	1 3/16-12	0503-14-16	16-14 F50X-S
1	1 5/16-12	1 5/8-12	0503-20-16	16-20 F50X-S
1 1/4	1 5/8-12	1 5/8-12	0503-20-20	20 F50X-S
1 1/4	1 5/8-12	1 5/16-12	0503-16-20	20-16 F50X-S
1 1/2	1 7/8-12	1 7/8-12	0503-24-24	24 F50X-S
1 1/2	1 7/8-12	1 5/8-12	0503-20-24	24-20 F50X-S
2	2 1/2-12	2 1/2-12	0503-32-32	32 F50X-S

Straight Thread Run Tee

053T (R50X-S)

Flare Tube Ends / Straight Thread O-Ring

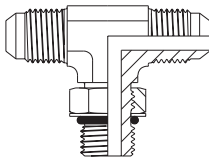


Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	053T-4-4	4 R50X-S
5/16	1/2-20	1/2-20	053T-5-5	5 R50X-S
3/8	9/16-18	9/16-18	053T-6-6	6 R50X-S
1/2	3/4-16	3/4-16	053T-8-8	8 R50X-S
5/8	7/8-14	7/8-14	053T-10-10	10 R50X-S
3/4	1 1/16-12	1 1/16-12	053T-12-12	12 R50X-S
1	1 5/16-12	1 5/16-12	053T-16-16	16 R50X-S
1 1/4	1 5/8-12	1 5/8-12	053T-20-20	20 R50X-S
1 1/2	1 7/8-12	1 7/8-12	053T-24-24	24 R50X-S

Straight Thread Branch Tee

253T (S50X-S)

Flare Tube Ends / Straight Thread O-Ring

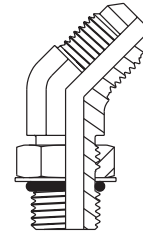


Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	253T-4-4	4 S50X-S
5/16	1/2-20	1/2-20	253T-5-5	5 S50X-S
3/8	9/16-18	9/16-18	253T-6-6	6 S50X-S
1/2	3/4-16	3/4-16	253T-8-8	8 S50X-S
5/8	7/8-14	7/8-14	253T-10-10	10 S50X-S
3/4	1 1/16-12	1 1/16-12	253T-12-12	12 S50X-S
1	1 5/16-12	1 5/16-12	253T-16-16	16 S50X-S

45° Straight Thread Elbow

3503 (V50X-S)

Flare Tube End / Straight Thread O-Ring

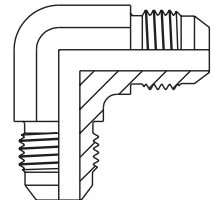


Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	3503-4-4	4 V50X-S
5/16	1/2-20	1/2-20	3503-5-5	5 V50X-S
3/8	9/16-18	9/16-18	3503-6-6	6 V50X-S
1/2	3/4-16	3/4-16	3503-8-8	8 V50X-S
1/2	3/4-16	7/8-14	3503-10-8	8-10 V50X-S
5/8	7/8-14	7/8-14	3503-10-10	10 V50X-S
3/4	1 1/16-12	1 1/16-12	3503-12-12	12 V50X-S
3/4	1 1/16-12	7/8-14	3503-10-12	12-10 V50X-S
7/8	1 3/16-12	1 3/16-12	3503-14-14	14 V50X-S
1	1 5/16-12	1 5/16-12	3503-16-16	16 V50X-S
1 1/4	1 5/8-12	1 5/8-12	3503-20-20	20 V50X-S
1 1/2	1 7/8-12	1 7/8-12	3503-24-24	24 V50X-S

Union Elbow

2303 (ETX-S)

Flare Tube End / Flare Tube End

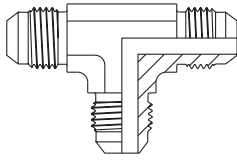


Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	2303-2-2	2 ETX-S
1/4	3/8-24	2303-4-4	4 ETX-S
5/16	1/2-20	2303-5-5	5 ETX-S
3/8	9/16-18	2303-6-6	6 ETX-S
1/2	3/4-16	2303-8-8	8 ETX-S
5/8	7/8-14	2303-10-10	10 ETX-S
3/4	1 1/16-12	2303-12-12	12 ETX-S
7/8	1 3/16-12	2303-14-14	14 ETX-S
1	1 5/16-12	2303-16-16	16 ETX-S
1 1/4	1 5/8-12	2303-20-20	20 ETX-S
1 1/2	1 7/8-12	2303-24-24	24 ETX-S
2	2 1/2-12	2303-32-32	32 ETX-S

Union Tee

033T (JTX-S)

Flare Tube End (All Three Ends)

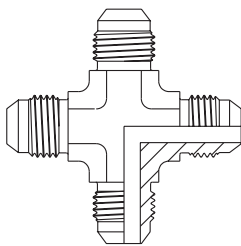


Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	033T-2-2	2 JTX-S
3/16	3/8-24	033T-3-3	3 JTX-S
1/4	7/16-20	033T-4-4	4 JTX-S
5/16	1/2-20	033T-5-5	5 JTX-S
3/8	9/16-18	033T-6-6	6 JTX-S
1/2	3/4-16	033T-8-8	8 JTX-S
5/8	7/8-14	033T-10-10	10 JTX-S
3/4	1 1/16-12	033T-12-12	12 JTX-S
7/8	1 3/16-12	033T-14-14	14 JTX-S
1	1 5/16-12	033T-16-16	16 JTX-S
1 1/4	1 5/8-12	033T-20-20	20 JTX-S
1 1/2	1 7/8-12	033T-24-24	24 JTX-S

Union Cross

033X (KTX-S)

Flare Tube End (All Four Ends)

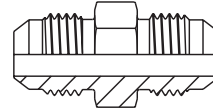


Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	033X-4	4 KTX-S
5/16	1/2-20	033X-5	5 KTX-S
3/8	9/16-18	033X-6	6 KTX-S
1/2	3/4-16	033X-8	8 KTX-S
5/8	7/8-14	033X-10	10 KTX-S
3/4	1 1/16-12	033X-12	12 KTX-S
1	1 5/16-12	033X-16	16 KTX-S

Union

0303 (HTX-S)

Flare Tube End / Flare Tube End

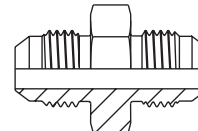


Tube O.D.	Tube End Un/Unf-2A	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24		0303-2-2	2 HTX-S
3/16	3/8-24		0303-3-3	3 HTX-S
1/4	7/16-20		0303-4-4	4 HTX-S
5/16	1/2-20		0303-5-5	5 HTX-S
3/8	9/16-18		0303-6-6	6 HTX-S
3/8	9/16-18	7/16-20	0303-4-6	6-4 HTX-S
1/2	3/4-16		0303-8-8	8 HTX-S
1/2	3/4-16	9/16-18	0303-6-8	8-6 HTX-S
5/8	7/8-14		0303-10-10	10 HTX-S
5/8	7/8-14	3/4-16	0303-8-10	10-8 HTX-S
3/4	1 1/16-12		0303-12-12	12 HTX-S
3/4	1 1/16-12	3/4-16	0303-8-12	12-8 HTX-S
3/4	1 1/16-12	7/8-14	0303-10-12	12-10 HTX-S
7/8	1 3/16-12		0303-14-14	14 HTX-S
1	1 5/16-12		0303-16-16	16 HTX-S
1	1 5/16-12	1 1/16-12	0303-16-12	16-12 HTX-S
1 1/4	1 5/8-12		0303-20-20	20 HTX-S
1 1/2	1 7/8-12		0303-24-24	24 HTX-S
2	2 1/2-12		0303-32-32	32 HTX-S

Large Hex Union

03L3 (LHTX-S)

Flare Tube End / Flare Tube End

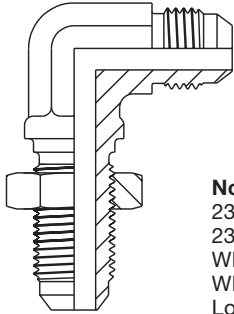


Tube O.D.	Tube End Un/Unf-2A	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20		03L3-4-4	4 LHTX-S
5/16	1/2-20		03L3-5-5	5 LHTX-S
3/8	9/16-18		03L3-6-6	6 LHTX-S
3/8	9/16-18	7/16-20	03L3-4-6	6-4 LHTX-S
1/2	3/4-16		03L3-8-8	8 LHTX-S
1/2	3/4-16	7/16-20	03L3-4-8	8-4 LHTX-S
1/2	3/4-16	9/16-18	03L3-6-8	8-6 LHTX-S
5/8	7/8-14		03L3-10-10	10 LHTX-S
3/4	1 1/16-12		03L3-12-12	12 LHTX-S
1	1 5/16-12		03L3-16-16	16 LHTX-S

Bulkhead Union Elbow

2353 (WETX-S)

Flare Tube End / Flare Tube End



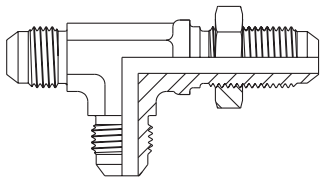
Note:
2353-4-4N, Body only
2353-4-4, Body with Locknut
WETX, Body only
WETX-WLN, Body with Locknut

Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	2353-4-4	4 WETX-WLN-S
5/16	1/2-20	2353-5-5	5 WETX-WLN-S
3/8	9/16-18	2353-6-6	6 WETX-WLN-S
1/2	3/4-16	2353-8-8	8 WETX-WLN-S
5/8	7/8-14	2353-10-10	10 WETX-WLN-S
3/4	1 1/16-12	2353-12-12	12 WETX-WLN-S
7/8	1 3/16-12	2353-14-14	14 WETX-WLN-S
1	1 5/16-12	2353-16-16	16 WETX-WLN-S
1 1/4	1 5/8-12	2353-20-20	20 WETX-WLN-S

Bulkhead Run Tee

533T (WJJTX-S)

Flare Tube End (All Three Ends)



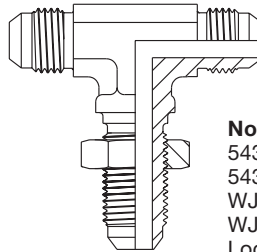
Note:
533T-4-4N, Body only
533T-4-4, Body with Locknut
WJJTX, Body only
WJJTX-WLN, Body with Locknut

Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	533T-4-4	4 WJJTX-WLN-S
3/8	9/16-18	533T-6-6	6 WJJTX-WLN-S
1/2	3/4-16	533T-8-8	8 WJJTX-WLN-S
5/8	7/8-14	533T-10-10	10 WJJTX-WLN-S
3/4	1 1/16-12	533T-12-12	12 WJJTX-WLN-S

Bulkhead Branch

543T (WJTX-S)

Flare Tube End (All Three Ends)



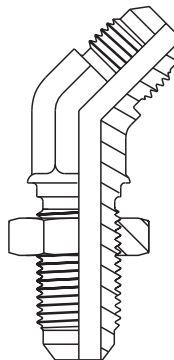
Note:
543T-4-4N, Body only
543T-4-4, Body with Locknut
WJTX, Body only
WJTX-WLN, Body with Locknut

Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	543T-4-4	4 WJTX-WLN-S
3/8	9/16-18	543T-6-6	6 WJTX-WLN-S
1/2	3/4-16	543T-8-8	8 WJTX-WLN-S
5/8	7/8-14	543T-10-10	10 WJTX-WLN-S
3/4	1 1/16-12	543T-12-12	12 WJTX-WLN-S

45° Bulkhead Union Elbow

3353 (WNTX-S)

Flare Tube End / Flare Tube End



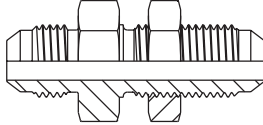
Note:
3353-4-4N, Body only
3353-4-4, Body with Locknut
WNTX, Body only
WNTX-WLN, Body with Locknut

Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	3353-4-4	4 WNTX-WLN-S
5/16	1/2-20	3353-5-5	5 WNTX-WLN-S
3/8	9/16-18	3353-6-6	6 WNTX-WLN-S
1/2	3/4-16	3353-8-8	8 WNTX-WLN-S
5/8	7/8-14	3353-10-10	10 WNTX-WLN-S
3/4	1 1/16-12	3353-12-12	12 WNTX-WLN-S
1	1 5/16-12	3353-16-16	16 WNTX-WLN-S

Bulkhead Union

0353 (WTX-S)

Flare Tube End / Flare Tube End



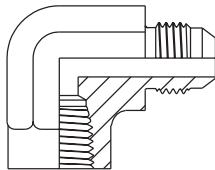
Note:
0353-4-4N, Body only
0353-4-4, Body with Locknut
WTX, Body only
WTX-WLN, Body with Locknut

Tube O.D.	Tube End UN/UNF-2A	Hose Fitting Part No.	Tube Fitting Part No.
3/16	3/8-24	0353-3-3	3 WTX-WLN-S
1/4	7/16-20	0353-4-4	4 WTX-WLN-S
5/16	1/2-20	0353-5-5	5 WTX-WLN-S
3/8	9/16-18	0353-6-6	6 WTX-WLN-S
1/2	3/4-16	0353-8-8	8 WTX-WLN-S
5/8	7/8-14	0353-10-10	10 WTX-WLN-S
3/4	1 1/16-12	0353-12-12	12 WTX-WLN-S
7/8	1 3/16-12	0353-14-14	14 WTX-WLN-S
1	1 5/16-12	0353-16-16	16 WTX-WLN-S
1 1/4	1 5/8-12	0353-20-20	20 WTX-WLN-S
1 1/2	1 7/8-12	0353-24-24	24 WTX-WLN-S

Female Elbow

2203 (DTX-S)

Flare Tube End / Female Pipe End

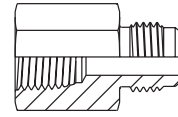


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/8-27	2203-2-4	4 DTX-S
1/4	7/16-20	1/4-18	2203-4-4	4-4 DTX-S
5/16	1/2-20	1/8-27	2203-2-5	5 DTX-S
5/16	1/2-20	1/4-18	2203-4-5	5-4 DTX-S
3/8	9/16-18	1/4-18	2203-4-6	6 DTX-S
3/8	9/16-18	1/8-27	2203-2-6	6-2 DTX-S
3/8	9/16-18	3/8-18	2203-6-6	6-6 DTX-S
1/2	3/4-16	3/8-18	2203-6-8	8 DTX-S
1/2	3/4-16	1/4-18	2203-4-8	8-4 DTX-S
1/2	3/4-16	1/2-14	2203-8-8	8-8 DTX-S
5/8	7/8-14	1/2-14	2203-8-10	10 DTX-S
3/4	1 1/16-12	3/4-14	2203-12-12	12 DTX-S
3/4	1 1/16-12	1/2-14	2203-8-12	12-8 DTX-S
7/8	1 3/16-12	3/4-14	2203-12-14	14 DTX-S
1	1 5/16-12	1-11 1/2	2203-16-16	16 DTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	2203-20-20	20 DTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	2203-24-24	24 DTX-S

Female Connector

0203 (GTX-S)

Flare Tube End / Female Pipe End



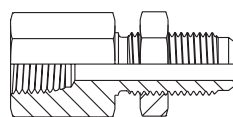
Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	1/8-27	0203-2-2	2 GTX-S
3/16	3/8-24	1/8-27	0203-3-3	3 GTX-S
1/4	7/16-20	1/8-27	0203-2-4	4 GTX-S
1/4	7/16-20	1/4-18	0203-4-4	4-4 GTX-S
5/16	1/2-20	1/8-27	0203-2-5	5 GTX-S
5/16	1/2-20	1/4-18	0203-4-5	5-4 GTX-S
3/8	9/16-18	1/4-18	0203-4-6	6 GTX-S
3/8	9/16-18	3/8-18	0203-6-6	6-6 GTX-S
1/2	3/4-16	3/8-18	0203-6-8	8 GTX-S
1/2	3/4-16	1/2-14	0203-8-8	8-8 GTX-S
5/8	7/8-14	1/2-14	0203-8-10	10 GTX-S
3/4	1 1/16-12	3/4-14	0203-12-12	12 GTX-S
3/4	1 1/16-12	1/2-14	0203-8-12	12-8 GTX-S
7/8	1 3/16-12	3/4-14	0203-12-14	14 GTX-S
1	1 5/16-12	1-11 1/2	0203-16-16	16 GTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	0203-20-20	20 GTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	0203-24-24	24 GTX-S
2	2 1/2-12	2-11 1/2	0203-32-32	32 GTX-S

Female Bulkhead

Connector

0253 (WGTX-S)

Flare Tube End / Female Pipe End



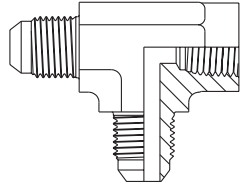
Note:
0253-4-4N, Body only
0253-4-4, Body with Locknut
WGTX, Body only
WGTX-WLN, Body with Locknut

Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/8-27	0253-2-4	4 WGTX-WLN-S
1/4	7/16-20	1/4-18	0253-4-4	4-4 WGTX-WLN-S
3/8	9/16-18	1/4-18	0253-4-6	6 WGTX-WLN-S
1/2	3/4-16	3/8-18	0253-6-8	8 WGTX-WLN-S
5/8	7/8-14	1/2-14	0253-8-10	10 WGTX-WLN-S
3/4	1 1/16-12	3/4-14	0253-12-12	12 WGTX-WLN-S
7/8	1 3/16-12	3/4-14	0253-12-14	14 WGTX-WLN-S
1	1 5/16-12	1-11 1/2	0253-16-16	16 WGTX-WLN-S

Female Run Tee

023T (MTX-S)

Flare Tube Ends / Female Pipe End

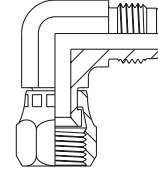


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/8-27	023T-2-4	4 MTX-S
1/4	7/16-20	1/4-18	023T-4-4-4	4-4-4 MTX-S
3/8	9/16-18	1/4-18	023T-4-6	6 MTX-S
1/2	3/4-16	3/8-18	023T-6-8	8 MTX-S
5/8	7/8-14	1/2-14	023T-8-10	10 MTX-S
3/4	1 1/16-12	3/4-14	023T-12-12	12 MTX-S
7/8	1 3/16-12	3/4-14	023T-12-14	14 MTX-S
1	1 5/16-12	1-11 1/2	023T-16-16	16 MTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	023T-20-20	20 MTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	023T-24-24	24 MTX-S

Swivel Nut Elbow

3903 (C6X-S)

Flare Tube End / Swivel Nut End

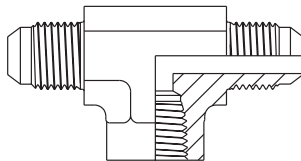


Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	3903-4-4	4 C6X-S
5/16	1/2-20	1/2-20	3903-5-5	5 C6X-S
3/8	9/16-18	9/16-18	3903-6-6	6 C6X-S
1/2	3/4-16	3/4-16	3903-8-8	8 C6X-S
5/8	7/8-14	7/8-14	3903-10-10	10 C6X-S
3/4	1 1/16-12	1 1/16-12	3903-12-12	12 C6X-S
7/8	1 3/16-12	1 3/16-12	3903-14-14	14 C6X-S
1	1 5/16-12	1 5/16-12	3903-16-16	16 C6X-S
1 1/4	1 5/8-12	1 5/8-12	3903-20-20	20 C6X-S
1 1/2	1 7/8-12	1 7/8-12	3903-24-24	24 C6X-S

Female Branch Tee

223T (OTX-S)

Flare Tube End / Female Pipe End

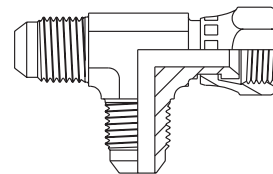


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/8-27	223T-2-4	4 OTX-S
1/4	7/16-20	1/4-18	223T-4-4-4	4-4-4 OTX-S
5/16	1/2-20	1/8-27	223T-2-5	5 OTX-S
3/8	9/16-18	1/4-18	223T-4-6	6 OTX-S
1/2	3/4-16	3/8-18	223T-6-8	8 OTX-S
5/8	7/8-14	1/2-14	223T-8-10	10 OTX-S
3/4	1 1/16-12	3/4-14	223T-12-12	12 OTX-S
7/8	1 3/16-12	3/4-14	223T-12-14	14 OTX-S
1	1 5/16-12	1-11 1/2	223T-16-16	16 OTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	223T-20-20	20 OTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	223T-24-24	24 OTX-S

Swivel Nut Run Tee

063T (R6X-S)

Flare Tube Ends / Swivel Nut End

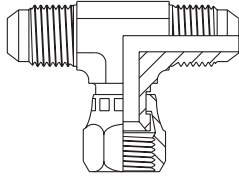


Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2BN	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	063T-4-4	4 R6X-S
3/8	9/16-18	9/16-18	063T-6-6	6 R6X-S
1/2	3/4-16	3/4-16	063T-8-8	8 R6X-S
5/8	7/8-14	7/8-14	063T-10-10	10 R6X-S
3/4	1 1/16-12	1 1/16-12	063T-12-12	12 R6X-S
7/8	1 3/16-12	1 3/16-12	063T-14-14	14 R6X-S
1	1 5/16-12	1 5/16-12	063T-16-16	16 R6X-S
1 1/4	1 5/8-12	1 5/8-12	063T-20-20	20 R6X-S

Swivel Nut Branch Tee

393T (S6X-S)

Flare Tube Ends / Swivel Nut End

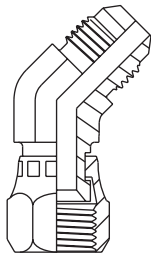


Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	393T-4-4	4 S6X-S
3/8	9/16-18	9/16-18	393T-6-6	6 S6X-S
1/2	3/4-16	3/4-16	393T-8-8	8 S6X-S
5/8	7/8-14	7/8-14	393T-10-10	10 S6X-S
3/4	1 1/16-12	1 1/16-12	393T-12-12	12 S6X-S
7/8	1 3/16-12	1 3/16-12	393T-14-14	14 S6X-S
1	1 5/16-12	1 5/16-12	393T-16-16	16 S6X-S
1 1/4	1 5/8-12	1 5/8-12	393T-20-20	20 S6X-S

45° Swivel Nut Elbow

3703 (V6X-S)

Flare Tube End / Swivel Nut End

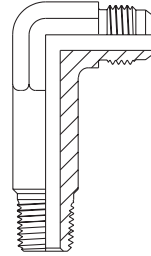


Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	3703-4-4	4 V6X-S
5/16	1/2-20	1/2-20	3703-5-5	5 V6X-S
3/8	9/16-18	9/16-18	3703-6-6	6 V6X-S
1/2	3/4-16	3/4-16	3703-8-8	8 V6X-S
5/8	7/8-14	7/8-14	3703-10-10	10 V6X-S
3/4	1 1/16-12	1 1/16-12	3703-12-12	12 V6X-S
7/8	1 3/16-12	1 3/16-12	3703-14-14	14 V6X-S
1	1 5/16-12	1 5/16-12	3703-16-16	16 V6X-S
1 1/4	1 5/8-12	1 5/8-12	3703-20-20	20 V6X-S
1 1/2	1 7/8-12	1 7/8-12	3703-24-24	24 V6X-S

Extra Long Male Elbow

5703 (CCCTX-S)

Flare Tube End / Male Pipe End

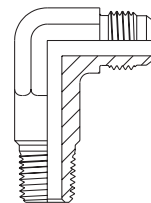


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/8-27	5703-2-4	4 CCCTX-S
1/4	7/16-20	1/4-18	5703-4-4	4-4 CCCTX-S
5/16	1/2-20	1/8-27	5703-2-5	5 CCCTX-S
3/8	9/16-18	1/4-18	5703-4-6	6 CCCTX-S
1/2	3/4-16	3/8-18	5703-6-8	8 CCCTX-S
1/2	3/4-16	1/2-14	5703-8-8	8-8 CCCTX-S
5/8	7/8-14	1/2-14	5703-8-10	10 CCCTX-S
3/4	1 1/16-12	3/4-14	5703-12-12	12 CCCTX-S
1	1 5/16-12	1-11 1/2	5703-16-16	16 CCCTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	5703-20-20	20 CCCTX-S

Long Male Elbow

5603 (CCTX-S)

Flare Tube End / Long Male Pipe End

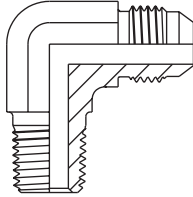


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/8-27	5603-2-4	4 CCTX-S
1/4	7/16-20	1/4-18	5603-4-4	4-4 CCTX-S
5/16	1/2-20	1/8-27	5603-2-5	5 CCTX-S
3/8	9/16-18	1/4-18	5603-4-6	6 CCTX-S
1/2	3/4-16	3/8-18	5603-6-8	8 CCTX-S
1/2	3/4-16	1/2-14	5603-8-8	8-8 CCTX-S
5/8	7/8-14	1/2-14	5603-8-10	10 CCTX-S
3/4	1 1/16-12	3/4-14	5603-12-12	12 CCTX-S
7/8	1 3/16-12	3/4-14	5603-14-14	14 CCTX-S
1	1 5/16-12	1-11 1/2	5603-16-16	16 CCTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	5603-20-20	20 CCTX-S

Male Elbow

2103 (CTX-S)

Flare Tube End / Male Pipe End

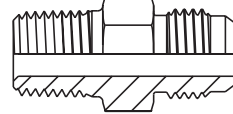


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	1/8-27	2103-2-2	2 CTX-S
3/16	3/8-24	1/8-27	2103-2-3	3 CTX-S
1/4	7/16-20	1/8-27	2103-2-4	4 CTX-S
1/4	7/16-20	1/4-18	2103-4-4	4-4 CTX-S
1/4	7/16-20	3/8-18	2103-6-4	4-6 CTX-S
1/4	7/16-20	1/2-14	2103-8-4	4-8 CTX-S
5/16	1/2-20	1/8-27	2103-2-5	5 CTX-S
5/16	1/2-20	1/4-18	2103-4-5	5-4 CTX-S
3/8	9/16-18	1/4-18	2103-4-6	6 CTX-S
3/8	9/16-18	1/8-27	2103-2-6	6-2 CTX-S
3/8	9/16-18	3/8-18	2103-6-6	6-6 CTX-S
3/8	9/16-18	1/2-14	2103-8-6	6-8 CTX-S
1/2	3/4-16	3/8-18	2103-6-8	8 CTX-S
1/2	3/4-16	1/4-18	2103-4-8	8-4 CTX-S
1/2	3/4-16	1/2-14	2103-8-8	8-8 CTX-S
1/2	3/4-16	3/4-14	2103-12-8	8-12 CTX-S
5/8	7/8-14	1/2-14	2103-10-10	10 CTX-S
5/8	7/8-14	3/8-18	2103-6-10	10-6 CTX-S
5/8	7/8-14	3/4-14	2103-12-10	10-12 CTX-S
3/4	1 1/16-12	3/4-14	2103-12-12	12 CTX-S
3/4	1 1/16-12	1/2-14	2103-8-12	12-8 CTX-S
3/4	1 1/16-12	1-11 1/2	2103-16-12	12-16 CTX-S
7/8	1 3/16-12	3/4-14	2103-12-14	14 CTX-S
1	1 5/16-12	1-11 1/2	2103-16-16	16 CTX-S
1	1 5/16-12	3/4-14	2103-12-16	16-12 CTX-S
1	1 5/16-12	1 1/4-11 1/2	2103-20-16	16-20 CTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	2103-20-20	20 CTX-S
1 1/4	1 5/8-12	1-11 1/2	2103-16-20	20-16 CTX-S
1 1/4	1 5/8-12	1 1/2-11 1/2	2103-24-20	20-24 CTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	2103-24-24	24 CTX-S
1 1/2	1 7/8-12	1 1/4-11 1/2	2103-20-24	24-20 CTX-S
2	2 1/2-12	2-11 1/2	2103-32-32	32 CTX-S

Male Connector

0103 (FTX-S)

Flare Tube End / Male Pipe End

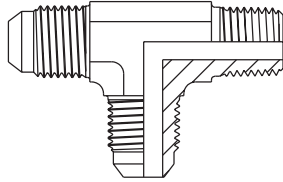


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	1/8-27	0103-2-2	2 FTX-S
3/16	3/8-24	1/8-27	0103-2-3	3 FTX-S
1/4	7/16-20	1/8-27	0103-2-4	4 FTX-S
1/4	7/16-20	1/4-18	0103-4-4	4-4 FTX-S
1/4	7/16-20	3/8-18	0103-6-4	4-6 FTX-S
1/4	7/16-20	1/2-14	0103-8-4	4-8 FTX-S
5/16	1/2-20	1/8-27	0103-2-5	5 FTX-S
5/16	1/2-20	1/4-18	0103-4-5	5-4 FTX-S
3/8	9/16-18	1/4-18	0103-4-6	6 FTX-S
3/8	9/16-18	1/8-27	0103-2-6	6-2 FTX-S
3/8	9/16-18	3/8-18	0103-6-6	6-6 FTX-S
3/8	9/16-18	1/2-14	0103-8-6	6-8 FTX-S
1/2	3/4-16	3/8-18	0103-6-8	8 FTX-S
1/2	3/4-16	1/4-18	0103-4-8	8-4 FTX-S
1/2	3/4-16	1/2-14	0103-8-8	8-8 FTX-S
1/2	3/4-16	3/4-14	0103-12-8	8-12 FTX-S
5/8	7/8-14	1/2-14	0103-8-10	10 FTX-S
5/8	7/8-14	3/8-14	0103-6-10	10-6 FTX-S
5/8	7/8-14	3/4-14	0103-12-10	10-12 FTX-S
3/4	1 1/16-12	3/4-14	0103-12-12	12 FTX-S
3/4	1 1/16-12	1/2-14	0103-8-12	12-8 FTX-S
3/4	1 1/16-12	1-11 1/2	0103-16-12	12-16 FTX-S
7/8	1 3/16-12	3/4-14	0103-12-14	14 FTX-S
1	1 5/16-12	1-11 1/2	0103-16-16	16 FTX-S
1	1 5/16-12	3/4-14	0103-12-16	16-12 FTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	0103-20-20	20 FTX-S
1 1/4	1 5/8-12	1-11 1/2	0103-16-20	20-16 FTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	0103-24-24	24 FTX-S
1 1/2	1 7/8-12	1 1/4-11 1/2	0103-20-24	24-20 FTX-S
2	2 1/2-12	2-11 1/2	0103-32-32	32 FTX-S

Male Run Tee

013T (RTX-S)

Flare Tube Ends / Male Pipe End

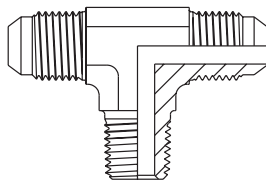


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
3/16	3/8-24	1/8-27	013T-2-3	3 RTX-S
1/4	7/16-20	1/8-27	013T-2-4	4 RTX-S
1/4	7/16-20	1/4-18	013T-4-4-4	4-4-4 RTX-S
5/16	1/2-20	1/8-27	013T-2-5	5 RTX-S
3/8	9/16-18	1/4-18	013T-4-6	6 RTX-S
3/8	9/16-18	3/8-18	013T-6-6-6	6-6-6 RTX-S
1/2	3/4-16	3/8-18	013T-6-8	8 RTX-S
1/2	3/4-16	1/2-14	013T-8-8-8	8-8-8 RTX-S
5/8	7/8-14	1/2-14	013T-8-10	10 RTX-S
3/4	1 1/16-12	3/4-14	013T-12-12	12 RTX-S
7/8	1 3/16-12	3/4-14	013T-14-14	14 RTX-S
1	1 5/16-12	1-11 1/2	013T-16-16	16 RTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	013T-20-20	20 RTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	013T-24-24	24 RTX-S

Male Branch Tee

213T (STX-S)

Flare Tube Ends / Male Pipe End

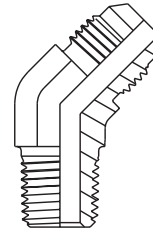


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
3/16	3/8-24	1/8-27	213T-2-3	3 STX-S
1/4	7/16-20	1/8-27	213T-2-4	4 STX-S
1/4	7/16-20	1/4-18	213T-4-4-4	4-4-4 STX-S
5/16	1/2-20	1/8-27	213T-2-5	5 STX-S
3/8	9/16-18	1/4-18	213T-4-6	6 STX-S
3/8	9/16-18	3/8-18	213T-6-6-6	6-6-6 STX-S
1/2	3/4-16	3/8-18	213T-6-8	8 STX-S
1/2	3/4-16	1/2-14	213T-8-8-8	8-8-8 STX-S
5/8	7/8-14	1/2-14	213T-8-10	10 STX-S
3/4	1 1/16-12	3/4-14	213T-12-12	12 STX-S
7/8	1 3/16-12	3/4-14	213T-12-14	14 STX-S
1	1 5/16-12	1-11 1/2	213T-16-16	16 STX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	213T-20-20	20 STX-S

45° Male Elbow

3103 (VTX-S)

Flare Tube End / Male Pipe End

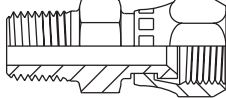


Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	1/8-27	3103-2-2	2 VTX-S
3/16	3/8-24	1/8-27	3103-2-3	3 VTX-S
1/4	7/16-20	1/8-27	3103-2-4	4 VTX-S
1/4	7/16-20	1/4-18	3103-4-4	4-4 VTX-S
5/16	1/2-20	1/8-27	3103-2-5	5 VTX-S
5/16	1/2-20	1/4-18	3103-4-5	5-4 VTX-S
3/8	9/16-18	1/4-18	3103-4-6	6 VTX-S
3/8	9/16-18	1/8-27	3103-2-6	6-2 VTX-S
3/8	9/16-18	3/8-18	3103-6-6	6-6 VTX-S
3/8	9/16-18	1/2-14	3103-8-6	6-8 VTX-S
1/2	3/4-16	3/8-18	3103-6-8	8 VTX-S
1/2	3/4-16	1/4-18	3103-4-8	8-4 VTX-S
1/2	3/4-16	1/2-14	3103-8-8	8-8 VTX-S
1/2	3/4-16	3/4-14	3103-12-8	8-12 VTX-S
5/8	7/8-14	1/2-14	3103-8-10	10 VTX-S
5/8	7/8-14	3/8-18	3103-6-10	10-6 VTX-S
5/8	7/8-14	3/4-14	3103-12-10	10-12 VTX-S
3/4	1 1/16-12	3/4-14	3103-12-12	12 VTX-S
3/4	1 1/16-12	1/2-14	3103-8-12	12-8 VTX-S
3/4	1 1/16-12	1-11 1/2	3103-16-12	12-16 VTX-S
7/8	1 3/16-12	3/4-14	3103-12-14	14 VTX-S
1	1 5/16-12	1-11 1/2	3103-16-16	16 VTX-S
1	1 5/16-12	3/4-14	3103-12-16	16-12 VTX-S
1 1/4	1 5/8-12	1 1/4-11 1/2	3103-20-20	20 VTX-S
1 1/2	1 7/8-12	1 1/2-11 1/2	3103-24-24	24 VTX-S
2	2 1/2-12	2-11 1/2	3103-32-32	32 VTX-S

Swivel Connector

0106 (F6X-S)

Swivel Nut End / Male NPTF

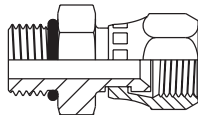


Tube O.D.	Swivel Un/Unf-2B	Port Thread NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	1/4-18	0106-4-4	4-4 F6X-S
5/16	1/2-20	1/4-18	0106-4-5	5-4 F6X-S
3/8	9/16-18	1/4-18	0106-4-6	6 F6X-S
3/8	9/16-18	3/8-18	0106-6-6	6-6 F6X-S
1/2	3/4-16	3/8-18	0106-6-8	8 F6X-S
5/8	7/8-14	1/2-14	0106-8-10	10 F6X-S
5/8	7/8-14	3/8-18	0106-6-10	10-6 F6X-S
3/4	1 1/16-12	3/4-12	0106-12-12	12 F6X-S
3/4	1 1/16-12	1/2-14	0106-8-12	12-8 F6X-S
1	1 5/16-12	1-11 1/2	0106-16-16	16 F6X-S
1	1 5/16-12	3/4-12	0106-12-16	16-12 F6X-S
1 1/4	1 5/8-12	1 1/4-11 1/2	0106-20-20	20 F6X-S

Swivel Straight Thread Connector

0506 (F650X-S)

Swivel Nut End / Straight Thread O-Ring

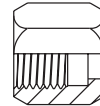


Tube O.D.	Port Thread Un/Unf-2A	Swivel Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/4	7/16-20	7/16-20	0506-4-4	4 F650X-S
5/16	1/2-20	1/2-20	0506-5-5	5 F650X-S
3/8	9/16-18	9/16-18	0506-6-6	6 F650X-S
1/2	3/4-16	3/4-16	0506-8-8	8 F650X-S
5/8	7/8-14	7/8-14	0506-10-10	10 F650X-S
3/4	1 1/16-12	1 1/16-12	0506-12-12	12 F650X-S
1	1 5/16-12	1 5/16-12	0506-16-16	16 F650X-S
1 1/4	1 5/8-12	1 5/8-12	0506-20-20	20 F650X-S

Nut

06B (BTX-S)

Flare Tube End Nut

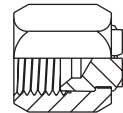


Tube O.D.	Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	06B-2	2 BTX-S
3/16	3/8-24	06B-3	3 BTX-S
1/4	7/16-20	06B-4	4 BTX-S
5/16	1/2-20	06B-5	5 BTX-S
3/8	9/16-18	06B-6	6 BTX-S
1/2	3/4-16	06B-8	8 BTX-S
5/8	7/8-14	06B-10	10 BTX-S
3/4	1 1/16-12	06B-12	12 BTX-S
7/8	1 3/16-12	06B-14	14 BTX-S
1	1 5/16-12	06B-16	16 BTX-S
1 1/4	1 5/8-12	06B-20	20 BTX-S
1 1/2	1 7/8-12	06B-24	24 BTX-S
2	2 1/2-12	06B-32	32 BTX-S

Cap

06CP (FNTX-S)

Flare Tube End Cap



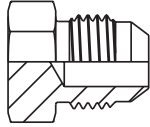
Tube O.D.	Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	06CP-2	2 FNTX-S
3/16	3/8-24	06CP-3	3 FNTX-S
1/4	7/16-20	06CP-4	4 FNTX-S
5/16	1/2-20	06CP-5	5 FNTX-S
3/8	9/16-18	06CP-6	6 FNTX-S
1/2	3/4-16	06CP-8	8 FNTX-S
5/8	7/8-14	06CP-10	10 FNTX-S
3/4	1 1/16-12	06CP-12	12 FNTX-S
7/8	1 3/16-12	06CP-14	14 FNTX-S
1	1 5/16-12	06CP-16	16 FNTX-S
1 1/4	1 5/8-12	06CP-20	20 FNTX-S
1 1/2	1 7/8-12	06CP-24	24 FNTX-S
2	2 1/2-12	06CP-32	32 FNTX-S

Plug

03CP (PNTX-S)

To Screw into BTX Nut to Plug Line

Tube O.D.	Tube End Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/8	5/16-24	03CP-2	2 PNTX-S
3/16	3/8-24	03CP-3	3 PNTX-S
1/4	7/16-20	03CP-4	4 PNTX-S
5/16	1/2-20	03CP-5	5 PNTX-S
3/8	9/16-18	03CP-6	6 PNTX-S
1/2	3/4-16	03CP-8	8 PNTX-S
5/8	7/8-14	03CP-10	10 PNTX-S
3/4	1 1/16-12	03CP-12	12 PNTX-S
7/8	1 3/16-12	03CP-14	14 PNTX-S
1	1 5/16-12	03CP-16	16 PNTX-S
1 1/4	1 5/8-12	03CP-20	20 PNTX-S
1 1/2	1 7/8-12	03CP-24	24 PNTX-S
2	2 1/2-12	03CP-32	32 PNTX-S

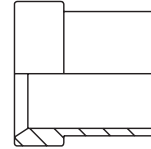


Inch Sleeve

06S (TX-S)

Flare Tube End Sleeve

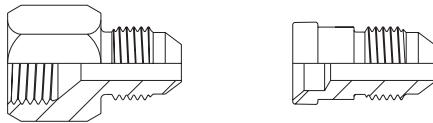
Tube O.D.	Hose Fitting Part No.	Tube Fitting Part No.
1/8	06S-2	2 TX-S
3/16	06S-3	3 TX-S
1/4	06S-4	4 TX-S
5/16	06S-5	5 TX-S
3/8	06S-6	6 TX-S
1/2	06S-8	8 TX-S
5/8	06S-10	10 TX-S
3/4	06S-12	12 TX-S
7/8	06S-14	14 TX-S
1	06S-16	16 TX-S
1 1/4	06S-20	20 TX-S
1 1/2	06S-24	24 TX-S
2	06S-32	32 TX-S



Tube End Reducer

0603 (TRTX-S)

Assembles to Triple-Lok End to Reduce Size



Tube O.D. Reduction	Tube End Un/Unf-2A	Tube End Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
1/4 to 1/8	5/16-24	7/16-20	0603-4-2	4-2 TRTX-S
3/8 to 1/4	7/16-20	9/16-18	0603-6-4	6-4 TRTX-S
1/2 to 1/4	7/16-20	3/4-16	0603-8-4	8-4 TRTX-S
1/2 to 3/8	9/16-18	3/4-16	0603-8-6	8-6 TRTX-S
5/8 to 1/4	7/16-20	7/8-14	0603-10-4	10-4 TRTX-S
5/8 to 3/8	9/16-18	7/8-14	0603-10-6	10-6 TRTX-S
5/8 to 1/2	3/4-16	7/8-14	0603-10-8	*10-8 TRTX-S
3/4 to 1/4	7/16-20	1 1/16-12	0603-12-4	12-4 TRTX-S
3/4 to 3/8	9/16-18	1 1/16-12	0603-12-6	12-6 TRTX-S
3/4 to 1/2	3/4-16	1 1/16-12	0603-12-8	12-8 TRTX-S
3/4 to 5/8	7/8-14	1 1/16-12	0603-12-10	*12-10 TRTX-S
7/8 to 3/8	9/16-18	1 3/16-12	0603-14-6	14-6 TRTX-S
7/8 to 5/8	7/8-14	1 3/16-12	0603-14-10	14-10 TRTX-S
7/8 to 3/4	1 1/16-12	1 3/16-12	0603-14-12	*14-12 TRTX-S
1 to 1/2	3/4-16	1 5/16-12	0603-16-8	16-8 TRTX-S
1 to 3/4	1 1/16-12	1 5/16-12	0603-16-12	16-12 TRTX-S
1 to 7/8	1 3/16-12	1 5/16-12	0603-16-14	*16-14 TRTX-S
1 1/4 to 3/4	1 1/16-12	1 5/8-12	0603-20-12	20-12 TRTX-S
1 1/4 to 1	1 5/16-12	1 5/8-12	0603-20-16	20-16 TRTX-S
1 1/2 to 1 1/4	1 5/8-12	1 7/8-12	0603-24-20	24-20 TRTX-S

* Does not require BTX nut on larger side.

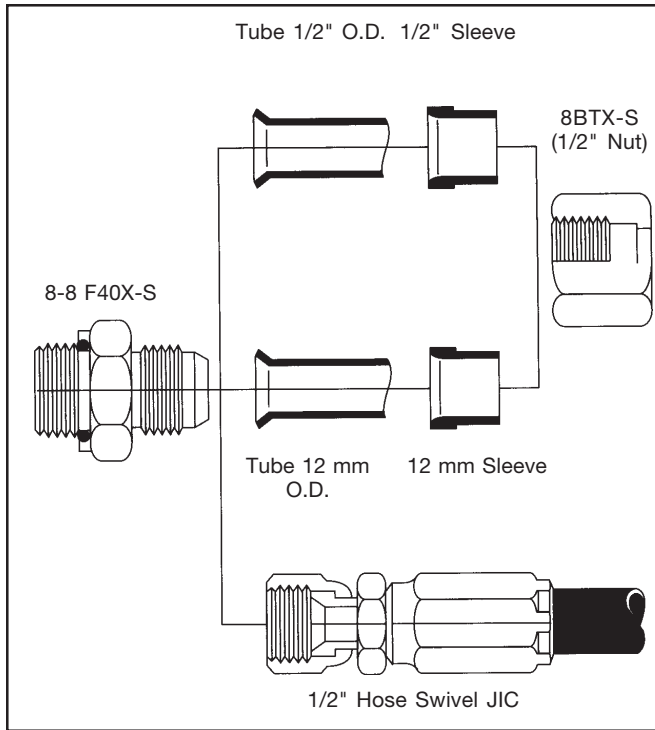
Bulkhead Locknut

53N (WLN-S)

Bulkhead Fitting Locknut Zinc Dichromate

Tube O.D.	Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
3/16	3/8-24	53N-3	3 WLN-S
1/4	7/16-20	53N-4	4 WLN-S
5/16	1/2-20	53N-5	5 WLN-S
3/8	9/16-18	53N-6	6 WLN-S
1/2	3/4-16	53N-8	8 WLN-S
5/8	7/8-14	53N-10	10 WLN-S
3/4	1 1/16-12	53N-12	12 WLN-S
7/8	1 3/16-12	53N-14	14 WLN-S
1	1 5/16-12	53N-16	16 WLN-S
1 1/4	1 5/8-12	53N-20	20 WLN-S
1 1/2	1 7/8-12	53N-24	24 WLN-S





The preceding example shows how a common Triple-Lok body can connect three different ways:

1. With a 1/2" sleeve, it can connect to a 1/2" tube.
2. With a 12 mm sleeve, it can connect to a 12 mm tube.
3. Without a nut and sleeve, it can be used as a hose adapter.

Introduction

37° Flared Fittings

Another popular style of fitting used overseas on metric tubing is the 37° flared fitting. This fitting is a three piece flared fitting, and the tubing is flared to a 37° angle and seats on the nose of the fitting as shown in the adjacent diagram.

Versatility

This fitting is very popular on a worldwide basis due to its versatility. A single 37° fitting body will accept both inch and metric tubing by simply changing the sleeve. The 37° fitting body without a nut and sleeve is also very popular as a hose adapter. Study the adjacent example to better understand how this works.

The following chart should give you a clearer picture of the flexibility of the 37° system. It gives you every "convertible sleeve" connection for the 37° flare. For example, if you needed to grip a 12 millimeter tube you could use any 1/2" 37° flare fitting together with a 12 millimeter sleeve and a standard 1/2" nut and you would have all the components to seal a 12mm flared tube.

From this example, you can see that any 37° flare fitting can easily be converted into a metric tube fitting with merely a sleeve change.

This process will also work in reverse – if you have a 37° flare fitting used on a 12mm tube, you can put a standard 1/2" sleeve in and change the tube back to inch sizes. This same flare will also accept a 1/2" JIC hose swivel which further enhances its value in the field.

Convertible Sleeve Chart

Inch Size JIC 37°	Tube O.D.	Thread On Tube Side SAE Straight Thread	Millimeter Sleeve Part No.	Nut Part No.
1/4	6mm	7/16-20	TX-S 6mm	4 BTX-S
5/16	8mm	1/2-20	5 TX-S	5 BTX-S
3/8	10mm	9/16-18	TX-S 10mm	6 BTX-S
1/2	12mm	3/4-16	TX-S 12mm	8 BTX-S
5/8	14mm	7/8-14	TX-S 14mm	10 BTX-S
5/8	15mm	7/8-14	TX-S 15mm	10 BTX-S
5/8	16mm	7/8-14	10 TX-S	10 BTX-S
3/4	18mm	1 1/16-12	TX-S 18mm	12 BTX-S
3/4	20mm	1 1/16-12	20-12 TX-S	20-12 BTX-S
1-00	25mm	1 5/16-12	TX-S 25mm	16 BTX-S
1 1/4	30mm	1 5/8-12	TX-S 30mm	20 BTX-S
1 1/4	32mm	1 5/8-12	20 TX-S	20 BTX-S
1 1/2	38mm	1 7/8-12	24 TX-S	24 BTX-S

Identifying Metric Hose Fittings

The Hose

In identifying hose connections that come from outside the continental U.S., it helps to realize that although it is possible to find metric hose fittings, you will probably never encounter metric hose. All major foreign manufacturers of hydraulic hose supply them to SAE standards, with common U.S. I.D. and O.D. relationships. It is necessary to note the following: it is possible and common to find metric flexible tubing (nylon, polyethylene, etc.). It is also possible (although not common) to find a certain type of hose that is not commonly found in the U.S. (manufactured to fill a specific customer need). Most major foreign manufacturers do a "soft conversion" of their standard SAE hose types to show metric dimensions. For example, a standard 3/8" SAE R1 hose in America is Parker's 421-6. It would have a 3/8" I.D. This same hose can be metrically dimensioned as 421-9.5, with 3/8" being converted to 9.5 mm. The chart at the left shows common U.S. hose sizes and their "soft conversion" equivalents in millimeters.

Common Hose I.D.'s	Common Dash Size	Metric Equivalent
1/4	-4	6.3
5/16	-5	7.9
3/8	-6	9.5
1/2	-8	12.7
5/8	-10	15.9
3/4	-12	19.1
1	-16	25.4
1 1/4	-20	31.8
1 1/2	-24	38.1
2	-32	50.8

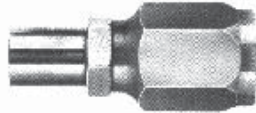
Foreign Hose Fittings

Probably the most common hose fitting arriving in the U.S. today from overseas is the BE hose fitting, better known here as the standpipe or tube-stub hose fitting. One end of this fitting attaches to the hose, (either 2-piece reusable or crimp) and the other end is a plain length of metric tubing.

Crimp or Swaged Standpipe



Re-usable Standpipe



After the hose fitting is attached to these, this metric tube-stub or standpipe has a nut and sleeve attached to the standpipe by either hydraulic pre-setting or makeup in a metric tube fitting body itself. After the nut and sleeve have been attached to the standpipe, the metric bite-type fitting body becomes the hose adapter.

**EO Fitting
Hose Adapter**



12mm



3/8"
Hose

In the photos above, you see a hose fitting that would attach to a 3/8" 1 wire hose. It has a 12mm standpipe. You could then use any Parker EO 12mm fitting as the hose adapter for this fitting. The nut and sleeve would be pre-set on the tube stub, and re-attached to the EO fitting. Identification of this type of hose fitting is relatively simple.

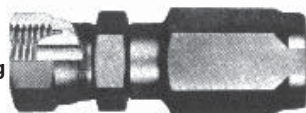
First, determine by observation what type of hose you have, and what size.

Next, use your Parker calipers to measure the O.D. of the tube-stub, or standpipe.

In the tube fitting section of this article, you will find common nut markings for 24° fittings. Check the nut on the standpipe for similar markings. If you identify the standpipe as being 6mm, 8mm, 10mm, or 12mm, it will also be necessary to get the series of the fitting (L or S) in order to match the hose fitting with the adapter. This should be marked on the nut, i.e. 10-L, 12-S etc. The hose fitting would then mate with any EO fitting of similar size and series. Over 12mm, you will notice that the sizes are different for L series and S series, hence the size of the tube-stub alone should be enough information to identify the hose fitting.

Another common foreign hose fitting mates with 24° EO fitting, but utilizes a ball-nose machined end instead of a standpipe, or tube-stub.

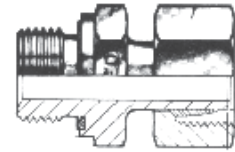
**24° Swivel Reusable Hose Fitting
Ball-Nose Type**



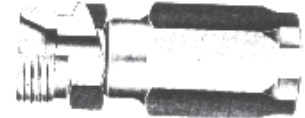
Types of hose fittings will probably not be marked with size and series, and will be much tougher to identify. Again you will find it considerably easier to identify the fitting it mates with (male 24° cone) rather than trying to measure internal threads on the swivel nut. Refer to the section on identifying the tube side of 24° fittings to help you with this process.

The 24° connection is often used on higher pressures in reverse; the male end comes as part of the hose fitting and you must use the EO swivel fittings as adapters.

**EO Swivel
EVGE**



**24° Male-Reusable
Hose Fitting**

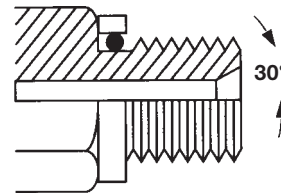


Identifying Metric Hose Fittings

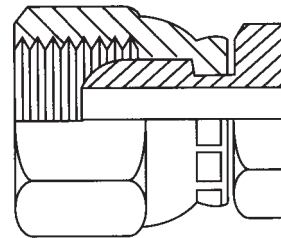
BSPP Hose Fittings

In addition to 24° connections it is also common to find hose fittings that mate with British Parallel pipe threads (BSPP).

Male BSPP



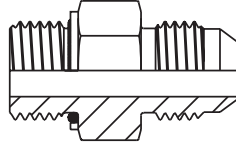
BSPP Hose Swivel



In order for the BSPP hose swivel to work, the male BSPP thread must be chamfered to a 30° angle. An unchamfered male BSPP thread cannot be used with a BSPP hose swivel. Measure the threads of the BSPP hose swivel as described earlier in this article. You will find it considerably easier to measure the male thread it mates with, rather than trying to measure the internal BSPP swivel. (See earlier section on identifying BSPP threads.)

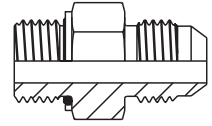
37° Flare to BSPP F40MXS

Tube O.D. mm	BSPP Male Pipe Thread	Part No.
6	1/8-28	4F40MXS
6	1/4-19	4-4F40MXS
6	3/8-19	4-6F40MXS
6	1/2-14	4-8F40MXS
8	1/4-19	5-4F40MXS
8	3/8-19	5-6F40MXS
10	1/4-19	6F40MXS
10	3/8-19	6-6F40MXS
10	1/2-14	6-8F40MXS
12	1/4-19	8-4F40MXS
12	3/8-19	8F40MXS
12	1/2-14	8-8F40MXS
12	3/4-14	8-12F40MXS
14, 15, 16	3/8-19	10-6F40MXS
14, 15, 16	1/2-14	10F40MXS
18, 20	1/2-14	12-8F40MXS
18, 20	3/4-14	12F40MXS
18, 20	1-11	12-16F40MXS
25	3/4-14	16-12F40MXS
25	1-11	16F40MXS
25	1 1/4-11	16-20F40MXS
30, 32	1 1/4-11	20F40MXS
38	1 1/4-11	24-20F40MXS
38	1 1/2-11	24F40MXS



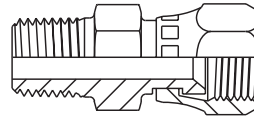
37° Male Connector - Metric Straight Thread F80MXS

Tube O.D. mm	Male Metric Straight Thread	Part No.
6	M10x1	4M10F80MXS
8	M12x1.5	5M12F80MXS
10	M14x1.5	6M14F80MXS
12	M16x1.5	8M16F80MXS
12	M18x1.5	8M18F80MXS
14, 15, 16	M18x1.5	10M18F80MXS
14, 15, 16	M22x1.5	10M22F80MXS
18, 20	M22x1.5	12M22F80MXS
18, 20	M24x1.5	12M24F80MXS
18, 20	M27x2	12M27F80MXS
25	M27x2	16M27F80MXS
25	M33x2	16M33F80MXS
30, 32	M42x2	20M42F80MXS
38	M48x2	24M48F80MXS



37° Swivel to Male BSPT F63MXS

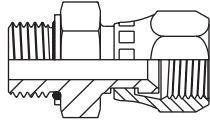
Tube O.D. mm	BSPT Male Pipe Thread	Part No.
6	1/4-19	4-4F63MXS
8	1/4-19	5-4F63MXS
10	1/4-19	6F63MXS
10	3/8-19	6-6F63MXS
12	1/4-19	8-4F63MXS
12	3/8-19	8F63MXS
14, 15, 16	1/2-14	10F63MXS
20	1/2-14	12-8F63MXS
18, 20	3/4-14	12F63MXS
25	3/4-14	16-12F63MXS
25	1-11	16F63MXS
30, 32	1 1/4-11	20F63MXS



37° Swivel to Male BSPP

F64OMXS

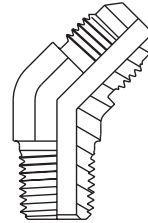
Tube O.D. mm	BSPP Male Pipe Thread	Part No.
6	1/8-28	4F64OMXS
6	1/4-19	4-4F64OMXS
10	1/4-19	6F64OMXS
10	3/8-19	6-6F64OMXS
12	3/8-19	8F64OMXS
14, 15, 16	1/2-14	10F64OMXS
18, 20	3/4-14	12F64OMXS
25	1-11	16F64OMXS
30, 32	1 1/4-11	20F64OMXS
38	1 1/2-11	24F64OMXS



Male 45° Elbow BSPT

V3MXS

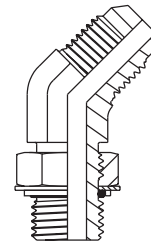
Tube O.D. mm	BSPT Male Pipe Thread	Part No.
6	1/8-28	4V3MXS
6	1/4-19	4-4V3MXS
10	1/4-19	6V3MXS
10	3/8-19	6-6V3MXS
12	3/8-19	8V3MXS
12	1/2-14	8-8V3MXS



Male 45° Elbow BSPP

V4OMXS

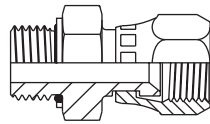
Tube O.D. mm	BSPP Male Pipe Thread	Part No.
6	1/8-28	4V4OMXS
10	1/4-19	6V4OMXS
12	3/8-19	8V4OMXS
14, 15, 16	1/2-14	10V4OMXS
18, 20	3/4-14	12V4OMXS
25	1-11	16V4OMXS



37° Swivel to Male Metric Parallel Thread

F68OMXS

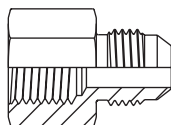
Tube O.D. mm	Male Metric Parallel Thread	Part No.
6	M10x1	4M10F68OMXS
8	M12x1.5	5M12F68OMXS
10	M14x1.5	6M14F68OMXS
12	M16x1.5	8M16F68OMXS
14, 15, 16	M22x1.5	10M22F68OMXS
18, 20	M27x2	12M27F68OMXS
25	M33x2	16M33F68OMXS



37° Female Connector to BSPP

G4MXS

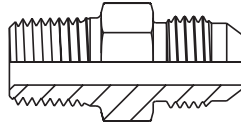
Tube O.D. mm	BSPP Female Pipe Thread	Part No.
6	1/8-28	4G4MXS
6	1/4-19	4-4G4MXS
8	1/8-28	5G4MXS
10	1/4-19	6G4MXS
10	3/8-19	6-6G4MXS
12	3/8-19	8G4MXS
12	1/2-14	8-8G4MXS
14, 15, 16	1/2-14	10G4MXS
18, 20	3/4-14	12G4MXS
25	1-11	16G4MXS



Male Connector BSPT

F3MXS

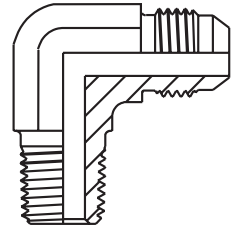
Tube O.D. mm	BSPT Male Pipe Thread	Part No.
6	1/8-28	4F3MXS
6	1/4-19	4-4F3MXS
8	1/8-28	5F3MXS
8	1/4-19	5-4F3MXS
10	1/4-19	6F3MXS
10	3/8-19	6-6F3MXS
10	1/2-14	6-8F3MXS
12	1/4-19	8-4F3MXS
12	3/8-19	8F3MXS
12	1/2-14	8-8F3MXS
14, 15, 16	3/8-19	10-6F3MXS
14, 15, 16	1/2-14	10F3MXS
14, 15, 16	3/4-14	10-12F3MXS
18, 20	1/2-14	12-8F3MXS
18, 20	3/4-14	12F3MXS
18, 20	1-11	12-16F3MXS
25	3/4-14	16-12F3MXS
25	1-11	16F3MXS
30, 32	1-11	20-16F3MXS
30, 32	1 1/4-11	20F3MXS
38	1 1/2-11	24F3MXS



Male Elbow BSPT

C3MXS

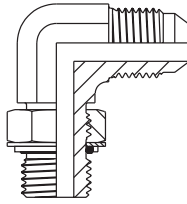
Tube O.D. mm	BSPT Male Pipe Thread	Part No.
6	1/8-28	4C3MXS
6	1/4-19	4-4C3MXS
8	1/8-28	5C3MXS
8	1/4-19	5-4C3MXS
10	1/4-19	6C3MXS
10	3/8-19	6-6C3MXS
10	1/2-14	6-8C3MXS
12	1/4-19	8-4C3MXS
12	3/8-19	8C3MXS
12	1/2-14	8-8C3MXS
14, 15, 16	3/8-19	10-6C3MXS
14, 15, 16	1/2-14	10C3MXS
18, 20	1/2-14	12-8C3MXS
18, 20	3/4-14	12C3MXS
25	3/4-14	16-12C3MXS
25	1-11	16C3MXS
30, 32	1-11	20-16C3MXS
30, 32	1 1/4-11	20C3MXS
38	1 1/2-11	24C3MXS



Male Elbow BSPP

C40MXS

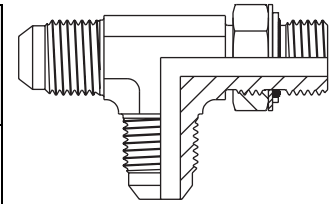
Tube O.D. mm	BSPP Male Pipe Thread.	Part No.
6	1/8-28	4C40MXS
6	1/4-19	4-4C40MXS
8	1/4-19	5-4C40MXS
10	1/4-19	6C40MXS
10	3/8-19	6-6C40MXS
12	1/4-19	8-4C40MXS
12	3/8-19	8C40MXS
12	1/2-14	8-8C40MXS
14, 15, 16	1/2-14	10C40MXS
18, 20	1/2-14	12-8C40MXS
18, 20	3/4-14	12C40MXS
25	3/4-14	16-12C40MXS
25	1-11	16C40MXS
30, 32	1-11	20-16C40MXS
30, 32	1 1/4-11	20C40MXS
38	1 1/2-11	24C40MXS



Male Run Tee BSPP

R40MXS

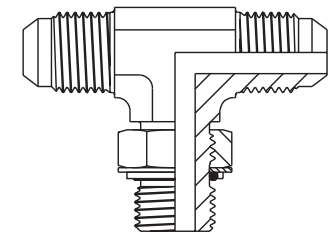
Tube O.D. mm	BSPP Male Pipe Thread	Part No.
10	1/4-19	6R40MXS
12	3/8-19	8R40MXS
14, 15, 16	1/2-14	10R40MXS
18, 20	3/4-14	12R40MXS



Male Branch Tee BSPP

S40MXS

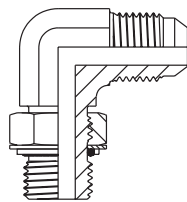
Tube O.D. mm	BSPP Male Pipe Thread	Part No.
10	1/4-19	6S40MXS
12	3/8-19	8S40MXS
14, 15, 16	1/2-14	10S40MXS
18, 20	3/4-14	12S40MXS



Male Elbow - Metric Straight Thread

C80MXS

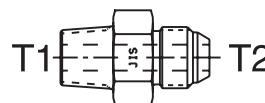
Tube O.D. mm	Male Metric Parallel Thread	Part NO.
6	M10x1	4M10C80MXS
8	M12x1.5	5M12C80MXS
10	M14x1.5	6M14C80MXS
12	M16x1.5	8M16C80MXS
14, 15, 16	M18x1.5	10M18C80MXS
14, 15, 16	M22x1.5	10M22C80MXS
18, 20	M22x.15	12M22C80MXS
18, 20	M27x2	12M27C80MXS



Male JIS (BSPT) to Male 30° Flare (BSPP) - Straight

F3T4S

Mates with FU Style Hose Fittings



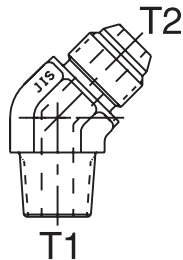
T1 BSPT Thread	T2 BSPP Thread	Mates with FU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 F3T4S
3/8 x 19	1/4 x 19	-4	4-6 F3T4S
1/4 x 19	3/8 x 19	-6	6-4 F3T4S
3/8 x 19	3/8 x 19	-6	6 F3T4S
3/8 x 19	1/2 x 14	-8	8-6 F3T4S
1/2 x 14	1/2 x 14	-8	8 F3T4S
3/4 x 14	3/4 x 14	-12	12 F3T4S
1 x 11	1 x 11	-16	16 F3T4S

Male JIS (BSPT) to Male 30° Flare (BSPP) - 45° Elbow

V3T4S

Mates with FU Style Hose Fittings

T1 BSPT Thread	T2 BSPP Thread	Mates with FU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 V3T4S
3/8 x 19	3/8 x 19	-6	6 V3T4S
1/2 x 14	1/2 x 14	-8	8 V3T4S
3/4 x 14	3/4 x 14	-12	12 V3T4S
1 x 11	1 x 11	-16	16 V3T4S

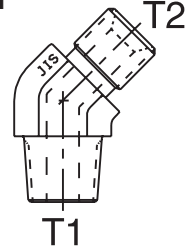


Male JIS (BSPT) to Male 60° Cone - 45° Elbow

V3P4S

Mates with GU Style Hose Fitting End

T1 BSPT Thread	T2 BSPP Thread	Mates with GU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 V3P4S
3/8 x 19	3/8 x 19	-6	6 V3P4S
1/2 x 14	1/2 x 14	-8	8 V3P4S
3/4 x 14	3/4 x 14	-12	12 V3P4S
1 x 11	1 x 11	-16	16 V3P4S

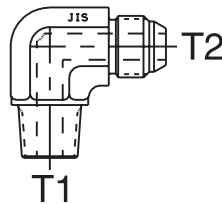


Male JIS (BSPT) to Male 30° Flare (BSPP) - 90° Elbow

C3T4S

Mates with FU Style Hose Fittings

T1 BSPT Thread	T2 BSPP Thread	Mates with FU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 C3T4S
3/8 x 19	3/8 x 19	-6	6 C3T4S
1/2 x 19	1/2 x 19	-8	8 C3T4S
3/4 x 19	3/4 x 19	-12	12 C3T4S
1 x 11	1 x 11	-16	16 C3T4S

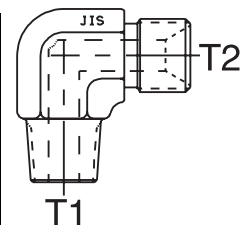


Male JIS (BSPT) to Male 60° Cone - 90° Elbow

C3P4S

Mates with GU Style Hose Fitting End

T1 BSPT Thread	T2 BSPP Thread	Mates with FU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 C3P4S
3/8 x 19	3/8 x 19	-6	6 C3P4S
1/2 x 14	1/2 x 14	-8	8 C3P4S
3/4 x 14	3/4 x 14	-12	12 C3P4S
1 x 11	1 x 11	-16	16 C3P4S

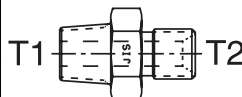


Male JIS (BSPT) to Male 60° Cone - Straight

F3P4S

Mates with GU Style Hose Fitting End

T1 BSPT Thread	T2 BSPP Thread	Mates with GU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 F3P4S
3/8 x 19	3/8 x 19	-6	6 F3P4S
1/2 x 14	1/2 x 14	-8	8 F3P4S
3/4 x 14	3/4 x 14	-12	12 F3P4S
1 x 11	1 x 11	-16	16 F3P4S

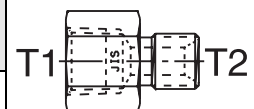


Female JIS (BSPT) to Male 60° Cone - Straight

G3P4S

Mates with GU Style Hose Fittings

T1 BSPT Thread	T2 BSPP Thread	Mates with GU - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 G3P4S
3/8 x 19	3/8 x 19	-6	6 G3P4S
1/2 x 14	1/2 x 14	-8	8 G3P4S
3/4 x 14	3/4 x 14	-12	12 G3P4S
1 x 11	1 x 11	-16	16 G3P4S

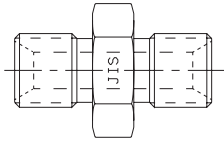


Male 60° Cone - Union

HP4S

Mates with GU Style Hose Fittings

BSPP Thread	Mates with GU - Size	Part No.
1/4 x 19	-4	4 HP4S
3/8 x 19	-6	6 HP4S
1/2 x 14	-8	8 HP4S
3/4 x 14	-12	12 HP4S
1 x 11	-16	16 HP4S

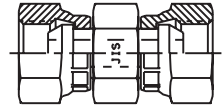


Female JIS (BSPP) 60° Cone Swivel - Union

HP46S

Mates with UT Style Hose Fitting End

BSPT Thread	BSPP Thread	Mates with UT - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 HP46S
3/8 x 19	3/8 x 19	-6	6 HP46S
1/2 x 14	1/2 x 14	-8	8 HP46S
3/4 x 14	3/4 x 14	-12	12 HP46S
1 x 11	1 x 11	-16	16 HP46S

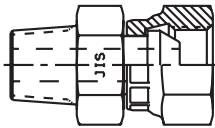


Male JIS (BSPT) to Female JIS (BSPP) 60° Cone - Swivel

F63P4S

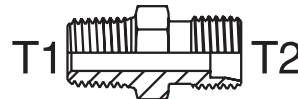
Mates with UT Style Hose Fittings

BSPT Thread	BSPP Thread	Mates with UT - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 F63P4S
3/8 x 19	3/8 x 19	-6	6 F63P4S
1/2 x 14	1/2 x 14	-8	8 F63P4S
3/4 x 14	3/4 x 14	-12	12 F63P4S
1 x 11	1 x 11	-16	16 F63P4S



BSPT to "L" Series 24° Cone - Straight

GE-L/R keg.



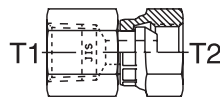
T1 BSPT Thread	T2 Metric Thread	Tube Size mm	Part No.
1/8 x 28	M12 x 1.5	6	GE06LR1/8KEGA3CX
1/4 x 19	M14 x 1.5	8	GE08LR1/4KEGA3CX
1/4 x 19	M16 x 1.5	10	GE10LR1/4KEGA3CX
1/4 x 19	M18 x 1.5	12	GE12LR1/4KEGA3CX
3/8 x 19	M18 x 1.5	12	GE12LR3/8KEGA3CX
1/2 x 14	M18 x 1.5	12	GE12LR1/2KEGA3CX
3/8 x 19	M22 x 1.5	15	GE15LR3/8KEGA3CX
1/2 x 14	M22 x 1.5	15	GE15LR1/2KEGA3CX
1/2 x 14	M26 x 1.5	18	GE18LR1/2KEGA3CX
3/4 x 14	M30 x 2	22	GE22LR3/4KEGA3CX

Female JIS (BSPT) to Female JIS (BSPP) 60° Cone - Swivel

G63P4S

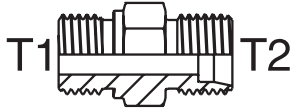
Mates with UT Style Hose Fitting End

T1 BSPT Thread	T2 BSPP Thread	Mates with UT - Size	Part No.
1/4 x 19	1/4 x 19	-4	4 G63P4S
3/8 x 19	3/8 x 19	-6	6 G63P4S
1/2 x 14	1/2 x 14	-8	8 G63P4S
3/4 x 14	3/4 x 14	-12	12 G63P4S
1 x 11	1 x 11	-16	16 G63P4S



**BSPB to “L” Series 24° Cone
Eolastic Seal**

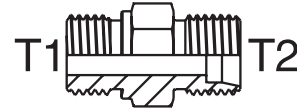
GE-LR-ED



T1 BSPT Thread	T2 Metric Thread	Tube Size mm	Part No.
1/8 x 28	M12 x 1.5	6	GE06LREDDMA3C
1/4 x 19	M12 x 1.5	6	GE06LR1/4EDMDA3C
1/8 x 28	M14 x 1.5	8	GE08LR1/8EDMDA3C
1/4 x 19	M14 x 1.5	8	GE08LREDDMA3C
3/8 x 19	M14 x 1.5	8	GE08LR3/8EDMDA3C
1/4 x 19	M16 x 1.5	10	GE10LREDDMA3C
3/8 x 19	M16 x 1.5	10	GE10LR3/8EDMDA3C
12 x 14	M16 x 1.5	10	GE10LR1/2EDMDA3C
1/4 x 19	M18 x 1.5	12	GE12LR1/4EDMDA3C
3/8 x 19	M18 x 1.5	12	GE12LREDDMA3C
1/2 x 14	M18 x 1.5	12	GE12LR1/2EDMDA3C
3/8 x 19	M22 x 1.5	15	GE15LR3/8EDMDA3C
1/2 x 14	M22 x 1.5	15	GE15LREDDMA3C
1/2 x 14	M26 x 1.5	18	GE18LREDDMA3C
3/8 x 19	M26 x 1.5	18	GE18LR3/8EDMDA3C
3/4 x 14	M30 x 2	22	GE22LREDDMA3C
1 x 11	M36 x 2	28	GE28LREDDMA3C
1-1/4 x 11	M45 x 2	35	GE35LREDDMA3C
1-1/2 x 11	M52 x 2	42	GE42LREDDMA3C

**BSPB to “L” Series 24° Cone
Metal-to-Metal Seal DIN
3852 Form B**

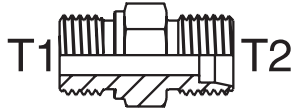
GE-LR



T1 BSPT Thread	T2 Metric Thread	Tube Size mm	Part No.
1/8 x 28	M12 x 1.5	6	GE06LRA3CX
1/4 x 19	M12 x 1.5	6	GE06LR1/4A3CX
3/8 x 19	M12 x 1.5	6	GE06LR3/8A3CX
1/2 x 14	M12 x 1.5	6	GE06LR1/2A3CX
1/8 x 28	M14 x 1.5	8	GE08LR1/8A3CX
1/4 x 19	M14 x 1.5	8	GE08LRA3CX
3/8 x 19	M14 x 1.5	8	GE08LR3/8A3CX
1/2 x 14	M14 x 1.5	8	GE08LR1/2A3CX
1/4 x 19	M16 x 1.5	10	GE10LRA3CX
3/8 x 19	M16 x 1.5	10	GE10LR3/8A3CX
1/2 x 14	M16 x 1.5	10	GE10LR1/2A3CX
1/4 x 19	M18 x 1.5	12	GE12LR1/4A3CX
3/8 x 19	M18 x 1.5	12	GE12LRA3CX
1/2 x 14	M18 x 1.5	12	GE12LR1/2A3CX
3/4 x 14	M18 x 1.5	12	GE12LR3/4A3CX
3/8 x 19	M22 x 1.5	15	GE15LR3/8A3CX
1/2 x 14	M22 x 1.5	15	GE15LRA3CX
3/4 x 14	M22 x 1.5	15	GE15LR3/4A3CX
3/8 x 19	M26 x 1.5	18	GE18LR3/8A3CX
1/2 x 14	M26 x 1.5	18	GE18LRA3CX
3/4 x 14	M26 x 1.5	18	GE18LR3/4A3CX
1/2 x 14	M30 x 2	22	GE22LR1/2A3CX
3/4 x 14	M30 x 2	22	GE22LRA3CX
3/4 x 14	M36 x 2	28	GE28LR3/4A3CX
1 x 11	M36 x 2	28	GE28LRA3CX
1 x 11	M45 x 2	35	GE35LR1A3CX
1-1/4 x 11	M45 x 2	35	GE35LRA3CX
1-1/2 x 11	M52 x 2	42	GE42LRA3CX

**BSP to “S” Series 24° Cone
Metal-to-Metal Seal DIN
3852 Form B**

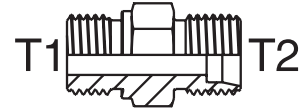
GE-SR



T1 BSP Thread	T2 Metric Thread	Tube Size mm	Part No.
1/4 x 19	M14 x 1.5	6	GE06SRA3CX
1/2 x 14	M14 x 1.5	6	GE06SR1/2A3CX
1/4 x 19	M16 x 1.5	8	GE08SRA3CX
3/8 x 19	M16 x 1.5	8	GE08SR3/8A3CX
1/4 x 19	M18 x 1.5	10	GE10SR1/4A3CX
3/8 x 19	M18 x 1.5	10	GE10SRA3CX
1/2 x 14	M18 x 1.5	10	GE10SR1/2A3CX
1/4 x 19	M20 x 1.5	12	GE12SR1/4A3CX
3/8 x 19	M20 x 1.5	12	GE12SRA3CX
1/2 x 14	M20 x 1.5	12	GE12SR1/2A3CX
3/8 x 19	M22 x 1.5	14	GE14SR3/8A3CX
1/2 x 14	M22 x 1.5	14	GE14SRA3CX
3/8 x 19	M24 x 1.5	16	GE16SR3/8A3CX
1/2 x 14	M24 x 1.5	16	GE16SRA3CX
3/4 x 14	M24 x 1.5	16	GE16SR3/4A3CX
1/2 x 14	M30 x 2	20	GE20SR1/2A3CX
3/4 x 14	M30 x 2	20	GE20SRA3CX
3/4 x 14	M36 x 2	25	GE25SR3/4A3CX
1 x 11	M36 x 2	25	GE25SRA3CX
1 x 11	M42 x 2	30	GE30SR1A3CX
1-1/4 x 11	M42 x 2	30	GE30SRA3CX
1-1/4 x 11	M52 x 2	38	GE38SR11/4A3CX
1-1/2 x 11	M52 x 2	38	GE38SRA3CX

**BSP to “S” Series 24° Cone
Eolastic Seal**

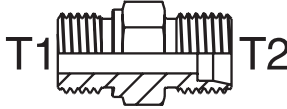
GE-SR-ED



T1 BSP Thread	T2 Metric Thread	Tube Size mm	Part No.
1/4 x 19	M14 x 1.5	6	GE06SREDOMDA3C
1/4 x 19	M16 x 1.5	8	GE08SREDOMDA3C
3/8 x 19	M16 x 1.5	8	GE08SR3/8EDOMDA3C
1/4 x 19	M18 x 1.5	10	GE10SR1/4EDOMDA3C
3/8 x 19	M18 x 1.5	10	GE10SREDOMDA3C
1/2 x 14	M18 x 1.5	10	GE10PSR1/2EDOMDA3C
1/4 x 19	M20 x 1.5	12	GE12SR1/4EDOMDA3C
3/8 x 19	M20 x 1.5	12	GE12SREDOMDA3C
1/2 x 14	M20 x 1.5	12	GE12SR1/2EDOMDA3C
1/2 x 14	M22 x 1.5	14	GE14SREDOMDA3C
3/8 x 19	M24 x 1.5	16	GE16SR3/8EDOMDA3C
1/2 x 14	M24 x 1.5	16	GE16SREDOMDA3C
3/4 x 14	M24 x 1.5	16	GE16SR3/4EDOMDA3C
3/4 x 14	M30 x 2	20	GE20SREDOMDA3C
1/2 x 14	M36 x 2	25	GE25SR1/2EDOMDA3C
1 x 11	M36 x 2	25	GE25SREDOMDA3C
1-1/4 x 11	M42 x 2	30	GE30SREDOMDA3C
1-1/2 x 11	M52 x 2	38	GE38SREDOMDA3C

**Metric Port to “L” Series 24°
Cone Metal-to-Metal Seal
DIN 3852 Form B**

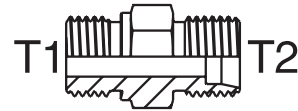
GE-LM



T1 Metric Thread	T2 Metric Thread	Tube Size mm	Part No.
M10 x 1	M12 x 1.5	6	GE06LMA3CX
M12 x 1.5	M14 x 1.5	8	GE08LMA3CX
M18 x 1.5	M14 x 1.5	8	GE08LM18x1.5A3CX
M14 x 1.5	M16 x 1.5	10	GE10LMA3CX
M16 x 1.5	M16 x 1.5	10	GE10LM16x1.5A3CX
M18 x 1.5	M16 x 1.5	10	GE10LM18x1.5A3CX
M22 x 1.5	M16 x 1.5	10	GE10LM22x1.5A3CX
M14 x 1.5	M18 x 1.5	12	GE12LM14x1.5A3CX
M16 x 1.5	M18 x 1.5	12	GE12LMA3CX
M18 x 1.5	M18 x 1.5	12	GE12LM18x1.5A3CX
M22 x 1.5	M18 x 1.5	12	GE12LM22x1.5A3CX
M16 x 1.5	M22 x 1.5	15	GE15LM16x1.5A3CX
M18 x 1.5	M22 x 1.5	15	GE15LMA3CX
M22 x 1.5	M22 x 1.5	15	GE15LM22x1.5A3CX
M18 x 1.5	M26 x 1.5	18	GE18LM18x1.5A3CX
M22 x 1.5	M26 x 1.5	18	GE18LMA3CX
M22 x 1.5	M30 x 2	22	GE22LM22x1.5A3CX
M26 x 1.5	M30 x 2	22	GE22LMA3CX
M33 x 2	M36 x 2	28	GE28LMA3CX
M42 x 2	M45 x 2	35	GE35LMA3CX
M48 x 2	M52 x 2	42	GE42LMA3CX

**Metric Port to “L” Series 24°
Cone Eolastic Seal**

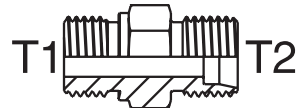
GE-LM-ED



T1 Metric Thread	T2 Metric Thread	Tube Size mm	Part No.
M10 x 1	M12 x 1.5	6	GE06LMEDOMDA3C
M12 x 1.5	M14 x 1.5	8	GE08LMEDOMDA3C
M14 x 1.5	M16 x 1.5	10	GE10LMEDOMDA3C
M16 x 1.5	M18 x 1.5	12	GE12LMEDOMDA3C
M18 x 1.5	M18 x 1.5	12	GE12LM18x1.5EDOMDA3C
M22 x 1.5	M18 x 1.5	12	GE12LM22x1.5EDOMDA3C
M18 x 1.5	M22 x 1.5	15	GE15LMEDOMDA3C
M22 x 1.5	M22 x 1.5	15	GE15LM22x1.5EDOMDA3C
M22 x 1.5	M26 x 1.5	18	GE18LMEDOMDA3C
M26 x 1.5	M30 x 2	22	GE22LMEDOMDA3C
M33 x 2	M36 x 2	28	GE28LMEDOMDA3C
M42 x 2	M45 x 2	35	GE35LMEDOMDA3C
M48 x 2	M52 x 2	42	GE42LMEDOMDA3C

**Metric Port to “S” Series 24°
Cone Eolastic Seal**

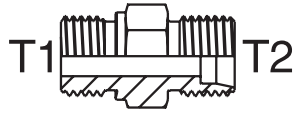
GE-SM-ED



T1 Metric Thread	T2 Metric Thread	Tube Size mm	Part No.
M12 x 1.5	M14 x 1.5	6	GE06SMEDOMDA3C
M14 x 1.5	M16 x 1.5	8	GE08SMEDOMDA3C
M16 x 1.5	M18 x 1.5	10	GE10SMEDOMDA3C
M18 x 1.5	M20 x 1.5	12	GE12SMEDOMDA3C
M20 x 1.5	M22 x 1.5	14	GE14SMEDOMDA3C
M22 x 1.5	M24 x 1.5	16	GE16SMEDOMDA3C
M27 x 1.5	M30 x 2	20	GE20SMEDOMDA3C
M33 x 2	M36 x 2	25	GE25SMEDOMDA3C
M42 x 2	M42 x 2	30	GE30SMEDOMDA3C
M48 x 2	M52 x 2	38	GE38SMEDOMDA3C

**Metric Port to "S" Series 24°
Cone Metal-to-Metal Seal
DIN 3852 Form B**

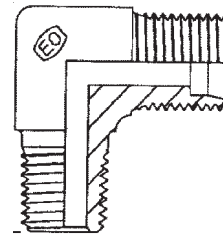
GE-SM



T1 Metric Thread	T2 Metric Thread	Tube Size mm	Part No.
M12 x 1.5	M14 x 1.5	6	GE6SMA3CX
M14 x 1.5	M16 x 1.5	8	GE8SMA3CX
M16 x 1.5	M18 x 1.5	10	GE10SMA3CX
M18 x 1.5	M20 x 1.5	12	GE12SMA3CX
M22 x 1.5	M20 x 1.5	12	GE12SM22x1.5A3CX
M20 x 1.5	M22 x 1.5	14	GE14SMA3CX
M18 x 1.5	M24 x 1.5	16	GE16SM18x1.5A3CX
M22 x 1.5	M24 x 1.5	16	GE16SMA3CX
M27 x 2	M30 x 2	20	GE20SMA3CX
M33 x 2	M36 x 2	25	GE25SMA3CX
M42 x 2	M42 x 2	30	GE30SMA3CX
M48 x 2	M52 x 2	38	GE38SMA3CX

**BSPT Port to "S" Series 24°
Cone - 90° Elbow**

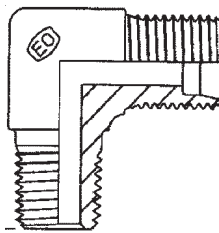
WE-SR



BSPT Thread	Metric Thread	Tube Size mm	Part No.
1/4 x 19	M12 x 1.5	6	WE06SRA3CX
1/4 x 19	M14 x 1.5	8	WE08SRA3CX
3/8 x 19	M16 x 1.5	10	WE10SRA3CX
3/8 x 19	M18 x 1.5	12	WE12SRA3CX
1/2 x 14	M22 x 1.5	14	WE14SRA3CX
1/2 x 14	M26 x 1.5	16	WE16SRA3CX

**BSPT Port to "L" Series 24°
Cone - 90° Elbow**

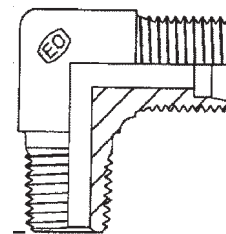
WE-LR



BSPT Thread	Metric Thread	Tube Size mm	Part No.
1/8 x 28	M12 x 1.5	6	WE06LRA3CX
1/4 x 19	M14 x 1.5	8	WE08LRA3CX
1/4 x 19	M16 x 1.5	10	WE10LRA3CX
3/8 x 19	M18 x 1.5	12	WE12LRA3CX
1/2 x 14	M22 x 1.5	15	WE15LRA3CX
1/2 x 14	M26 x 1.5	18	WE18LRA3CX

**Metric Tapered Port to "S"
Series 24° Cone - 90° Elbow**

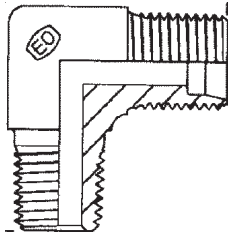
WE-LM



Metric Thread	Metric Thread	Tube Size mm	Part No.
M10 x 1	M12 x 1.5	6	WE06LMA3CX
M12 x 1.5	M14 x 1.5	8	WE08LMA3CX
M14 x 1.5	M16 x 1.5	10	WE10LMA3CX
M16 x 1.5	M18 x 1.5	12	WE12LMA3CX
M18 x 1.5	M22 x 1.5	15	WE15LMA3CX
M22 x 1.5	M26 x 1.5	18	WE18LMA3CX

Metric Tapered Port to "S"
Series 24° Cone - 90° Elbow

WE-SM



Metric Thread	Metric Thread	Tube Size mm	Part No.
M12 x 1.5	M14 x 1.5	6	WE06SMA3CX
M14 x 1.5	M16 x 1.5	8	WE08SMA3CX
M16 x 1.5	M18 x 1.5	10	WE10SMA3CX
M18 x 1.5	M20 x 1.5	12	WE12SMA3CX
M20 x 1.5	M22 x 1.5	14	WE14SMA3CX
M22 x 1.5	M24 x 1.5	16	WE16SMA3CX

BSPT Pipe Nipple

FF33

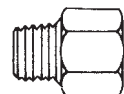
BSPT Male	BSPT Male	Part No.
1/8	1/8	1/8FF33MS
1/4	1/8	1/4x1/8FF33MS
1/4	1/4	1/4FF33MS
3/8	1/4	3/8x1/4FF33MS
3/8	3/8	3/8FF33MS
1/2	1/2	1/2FF33MS
3/4	3/4	3/4FF33MS
1/2	3/8	1/2x3/8FF33MS
3/4	1/2	3/4x1/2FF33MS
1	3/4	1x3/4FF33MS



Conversion Adapter

F3HG

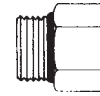
BSPT Male	NPT Female	Part No.
1/8	1/8	1/8x1/8F3HGS
1/4	1/4	1/4x1/8F3HGS
3/8	3/8	3/8x3/8F3HGS
1/2	1/2	1/2x1/2F3HGS
3/4	3/4	3/4x3/4F3HGS
1	1	1x1F3HGS



Conversion Adapter

F4OHG

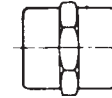
BSPT Male	NPT Female	Part No.
1/8	1/8	1/8x1/8F4OHGS
1/4	1/4	1/4x1/8F4OHGS
3/8	3/8	3/8x3/8F4OHGS
1/2	1/2	1/2x1/2F4OHGS
3/4	3/4	3/4x3/4F4OHGS
1	1	1x1F4OHGS



BSPP Female Union

GG44

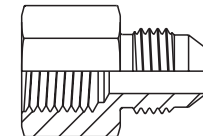
BSPP Female	BSPP Female	Part No.
1/8	1/8	1/8GG44MS
1/4	1/4	1/4GG44MS
3/8	3/8	3/8GG44MS
1/2	1/2	1/2GG44MS
1/4	1/8	1/4x1/8GG44MS
3/8	1/4	3/8x1/4GG44MS
1/5	3/8	1/2x3/8GG44MS



Manometer Connection

G4MXSMO

Tube O.D. mm	BSPP Female Pipe Thread	Part No.
6	1/4	4-4G4MXSMOS
6	1/2	4-8G4MXSMOS
8	1/4	5-4G4MXSMOS
10	1/4	6G4MXSMOS
10	1/2	6-8G4MXSMOS
12	1/4	8-4G4MXSMOS
12	1/2	8-8G4MXSMOS

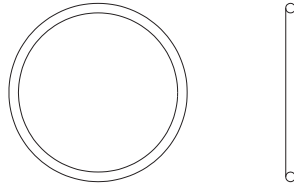


O-Ring

711509

Use with All SAE Straight Thread Adapters for Mounting with Internal Straight Thread Boss. Compound N522-90 for Petroleum Based Fluids.

Dash Size	Thread Size (Ref.)	Port Size
-13	5/16-24	1/8
-12	3/8-24	3/16
-1	7/16-20	1/4
-2	1/2-20	5/16
-3	9/16-18	3/8
-4	3/4-16	1/2
-5	7/8-14	5/8
-6	1 1/16-12	3/4
-11	1 3/16-12	7/8
-7	1 5/16-12	1
-8	1 5/8-12	1 1/4
-9	1 7/8-12	1 1/2
-10	2 1/2-12	2

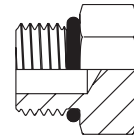


Hex Head Plug

05CP (P50N-S)

Hex Head / Straight Thread O-Ring

Port Thd Un/Unf-24	Hose Fitting Part No.	Tube Fitting Part No.
5/16-24	05CP-2	2 P50N-S
3/8-24	05CP-3	3 P50N-S
7/16-20	05CP-4	4 P50N-S
1/2-20	05CP-5	5 P50N-S
9/16-18	05CP-6	6 P50N-S
3/4-16	05CP-8	8 P50N-S
7/8-14	05CP-10	10 P50N-S
11/16-12	05CP-12	12 P50N-S
1 3/16-12	05CP-14	14 P50N-S
1 5/16-12	05CP-16	16 P50N-S
1 5/8-12	05CP-20	20 P50N-S
1 7/8-12	05CP-24	24 P50N-S
2 1/2-12	05CP-32	32 P50N-S

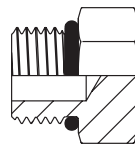


Hollow Hex Plug

05HP (HP50N-S)

Hollow Hex / Straight Thread O-Ring

Port Thd Un/Unf-24	Hose Fitting Part No.	Tube Fitting Part No.
5/16-24	05HP-2	2 HP50N-S
3/8-24	05HP-3	3 HP50N-S
7/16-20	05HP-4	4 HP50N-S
1/2-20	05HP-5	5 HP50N-S
9/16-18	05HP-6	6 HP50N-S
3/4-16	05HP-8	8 HP50N-S
7/8-14	05HP-10	10 HP50N-S
1 1/16-12	05HP-12	12 HP50N-S
1 3/16-12	05HP-14	14 HP50N-S
1 5/16-12	05HP-16	16 HP50N-S
1 5/8-12	05HP-20	20 HP50N-S

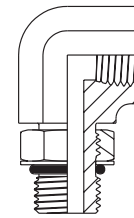


Female Elbow

2502 (AOEG-S)

Straight Thread O-Ring / Female Pipe Thread

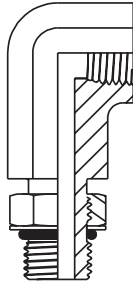
Port Thd NPTF	Port Thd Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
3/8-18	3/4-16	2502-8-6	8-3/8 AOEG-S
1/2-14	7/8-14	2502-10-8	10-1/2 AOEG-S
3/4-14	1 1/16-12	2502-12-12	12-3/4 AOEG-S
1-11 1/2	1 5/6-12	2502-16-16	16-1 AOEG-S



Extra Long Female Elbow

5502 (AOE4G-S)

**Straight Thread O-Ring /
Female Pipe Thread**

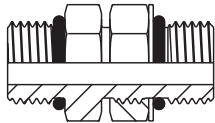


Port Thd NPTF	Port Thd Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
3/8-18	3/4-16	5502-8-6	8-3/8 AOE4G-S
1/2-14	7/8-14	5502-10-8	10-1/2 AOE4G-S
3/4-14	1 1/16-12	5502-12-12	12-3/4 AOE4G-S
1-11 1/2	1 5/6-12	5502-16-16	16-1 AOE4G-S

Straight Thread Union

0505 (F50HAO-S)

**Straight Thread O-Ring /
Straight Thread O-Ring**

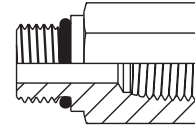


Port Thd Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
7/16-20	0505-4-4	4 F50HAO-S
9/16-18	0505-6-6	6 F50HAO-S
3/4-16	0505-8-8	8 F50HAO-S
7/8-14	0505-10-10	10 F50HAO-S
1 1/16-12	0505-12-12	12 F50HAO-S

Female Pipe Adapter

0502 (F50G-S)

**Straight Thread O-Ring /
Female Pipe Thread**

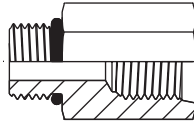


Port Thd NPTF	Port Thd Un/Unf-2A	Hose Fitting Part No.	Tube Fitting Part No.
1/4-18	9/16-18	0502-6-4	6-1/4 F50G-S
1/4-18	3/4-16	0502-8-4	8-1/4 F50G-S
3/8-18	3/4-16	0502-8-6	8-3/8 F50G-S
1/2-14	3/4-16	0502-8-8	8-1/2 F50G-S
1/4-18	7/8-14	0502-10-4	10-1/4 F50G-S
3/8-18	7/8-14	0502-10-6	10-3/8 F50G-S
1/2-14	7/8-14	0502-10-8	10-1/2 F50G-S
3/4-14	7/8-14	0502-10-12	10-3/4 F50G-S
1/2-14	1 1/16-12	0502-12-8	12-1/2 F50G-S
3/4-12	1 1/16-12	0502-12-12	12-3/4 F50G-S
1/2-14	1 3/16-12	0502-14-8	14-1/2 F50G-S
3/4-12	1 3/16-12	0502-14-12	14-3/4 F50G-S
1/2-14	1 5/16-12	0502-16-8	16-1/2 F50G-S
3/4-14	1 5/16-12	0502-16-12	16-3/4 F50G-S
1-11 1/2	1 5/16-12	0502-16-16	16-1 F50G-S
1-11 1/2	1 5/8-12	0502-20-16	20-1 F50G-S
1 1/4-11 1/2	1 5/8-12	0502-20-20	20-1 1/4 F50G-S
1-11 1/2	1 7/8-12	0502-24-16	24-1 F50G-S
1 1/2-11 1/2	1 7/8-12	0502-24-24	24-1 1/2 F50G-S

**Straight Thread
Reducer / Expander**

0510 (F50G5-S)

**Straight Thread O-Ring /
Female Straight Thread O-Ring Boss**



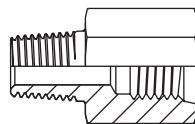
Port Thd Un/Unf-2A	Port Thd Un/Unf-2B	Hose Fitting Part No.	Tube Fitting Part No.
7/16-20	9/16-18	0510-4-6	4-6 F50G5-S
9/16-18	7/16-20	0510-6-4	6-4 F50G5-S
9/16-18	3/4-16	0510-6-8	6-8 F50G5-S
3/4-16	9/16-18	0510-8-6	8-6 F50G5-S
3/4-16	7/8-14	0510-8-10	8-10 F50G5-S
7/8-14	9/16-18	0510-10-6	10-6 F50G5-S
7/8-14	3/4-16	0510-10-8	10-8 F50G5-S
7/8-14	1 1/16-12	0510-10-12	10-12 F50G5-S
1 1/16-12	3/4-16	0510-12-8	12-8 F50G5-S
1 1/16-12	7/8-14	0510-12-10	12-10 F50G5-S
1 5/16-12	3/4-16	0510-16-8	16-8 F50G5-S
1 5/16-12	1 1/16-12	0510-16-12	16-12 F50G5-S
1 5/8-12	1 1/16-12	0510-20-12	20-12 F50G5-S
1 5/8-12	1 5/16-12	0510-20-16	20-16 F50G5-S
1 7/8-12	1 1/16-12	0510-24-12	24-12 F50G5-S
1 7/8-12	1 5/16-12	0510-24-16	24-16 F50G5-S
1 7/8-12	1 5/8-12	0510-24-20	24-20 F50G5-S

Conversion Adapter

F3HG5-S

Male BSPT / Female SAE Straight Thread

Port Thd BSPT	Port Thd Un/Unf-2B	Tube Fitting Part No.
1/8-28	7/16-20	1/8-4 F3HG5-S
1/8-28	1/2-20	1/8-5 F3HG5-S
1/4-19	9/16-18	1/4-6 F3HG5-S
3/8-19	3/4-16	3/8-8 F3HG5-S
1/2-14	7/8-14	1/2-10 F3HG5-S
3/4-14	1 1/16-12	3/4-12 F3HG5-S
1-11	1 5/16-12	1-16 F3HG5-S

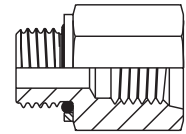


Conversion Adapter

F40HG5

Male BSPP / Female SAE Straight Thread

Port Thd Un/Unf-2B	Port Thd BSPP	Tube Fitting Part No.
7/16-20	1/8-28	1/8-4F40HG5
9/16-18	1/4-19	1/4-6F40HG5
9/16-18	3/8-19	3/8-6F40HG5
3/4-16	3/8-19	3/8-8F40HG5
7/8-14	1/2-14	1/2-10F40HG5
1 1/16-12	3/4-14	3/4-12F40HG5
1 5/16-12	1-11	1-16F40HG5
1 5/8-12	1 1/4-11	1 1/4-20F40HG5

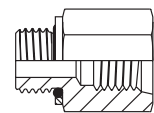


Conversion Adapter

F80HG5

Male Metric / Female SAE Straight Thread

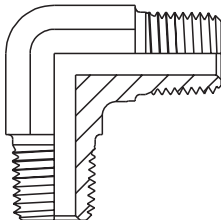
Port Thd Metric Str	Port Thd Un/Unf-2B	Tube Fitting Part No.
M10x1	7/16-20	M10-4F80HG5
M14x1.5	9/16-18	M14-6F80HG5
M16x1.5	3/4-16	M16-8F80HG5
M22x1.5	7/8-14	M22-10F80HG5
M27x2	1 1/16-12	M27-12F80HG5
M33x2	1 5/16-12	M33-16F80HG5
M42x2	1 5/8-12	M42-20F80HG5



Male Pipe Elbow

2101 (CR-S)

Male Pipe Thread / Male Pipe Thread

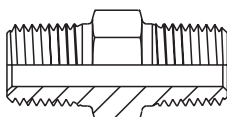


Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	1/8-27	2101-2-2	1/8 CR-S
1/4-18	1/4-18	2101-4-4	1/4 CR-S
3/8-18	3/8-18	2101-6-6	3/8 CR-S
3/8-18	1/4-18	2101-8-8	3/8 x 1/4 CR-S
1/2-14	1/2-14		1/2 CR-S
1/2-14	3/8-18	2101-12-12	1/2 x 3/8 CR-S
3/4-14	3/4-14		3/4 CR-S
3/4-14	1/2-14	2101-16-16	3/4 x 1/2 CR-S
1-11 1/2	1-11 1/2		1 CR-S

Pipe Nipple

0101 (FF-S)

Male Pipe Thread / Male Pipe Thread



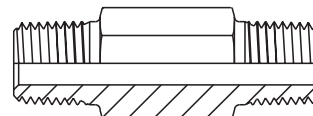
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27		0101-2-2	1/8 FF-S
1/4-18	1/8-27	0101-2-4	1/4 x 1/8 FF-S
1/4-18		0101-4-4	1/4 FF-S
3/8-18	1/8-27	0101-2-6	3/8 x 1/8 FF-S
3/8-18	1/4-18	0101-4-6	3/8 x 1/4 FF-S
3/8-18		0101-6-6	3/8 FF-S
1/2-14	3/8-18	0101-6-8	1/2 x 3/8 FF-S
1/2-14	1/4-18	0101-4-8	1/2 x 1/4 FF-S
1/2-14		0101-8-8	1/2 FF-S
3/4-14	1/4-18	0101-4-12	3/4 x 1/4 FF-S
3/4-14	1/2-14	0101-8-12	3/4 x 1/2 FF-S
3/4-14		0101-12-12	3/4 FF-S
1-11 1/2		0101-16-16	1 FF-S
1-11 1/2	3/4-14	0101-12-16	1 x 3/4 FF-S
1 1/4-11 1/2	1-11 1/2	0101-16-20	1 1/4 x 1 FF-S
1 1/4-11 1/2		0101-20-20	1 1/4 FF-S
1 1/4-11 1/2		0101-24-24	1 1/2 FF-S
2-11 1/2		0101-32-32	2 FF-S

Long Pipe Nipple

FFF-S

Male Pipe Thread / Male Pipe Thread

Port Thd NPTF	Tube Fitting Part No.
1/8-27	1/8 x 1.5 FFF-S
1/8-27	1/8 x 2.0 FFF-S
1/8-27	1/8 x 2.5 FFF-S
1/8-27	1/8 x 3.0 FFF-S
1/4-18	1/4 x 1.5 FFF-S
1/4-18	1/4 x 2.0 FFF-S
1/4-18	1/4 x 2.5 FFF-S
1/4-18	1/4 x 3.0 FFF-S
1/4-18	1/4 x 4.0 FFF-S
1/2-14	1/2 x 2.0 FFF-S
1/2-14	1/2 x 3.0 FFF-S

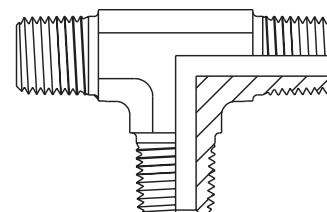


Male Pipe Tee

RRS-SS

Male Pipe Thread (All Three Ends)

Port Thd NPTF	Tube Fitting Part No.*
1/8-27	1/8 RRS-SS
1/4-18	1/4 RRS-SS
3/8-18	3/8 RRS-SS
1/2-14	1/2 RRS-SS



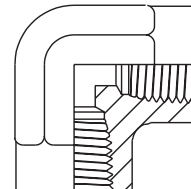
*Fitting available in stainless steel only.

Female Pipe Elbow

2202 (DD-S)

Female Pipe Thread / Female Pipe Thread

Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	2202-2-2	1/8 DD-S
1/4-18	2202-4-4	1/4 DD-S
3/8-18	2202-6-6	3/8 DD-S
1/2-14	2202-8-8	1/2 DD-S
3/4-14	2202-12-12	3/4 DD-S
1-11 1/2	2202-16-16	1 DD-S
1 1/4-11 1/2	2202-20-20	1 1/4 DD-S
1 1/2-11 1/2	2202-24-24	1 1/2 DD-S

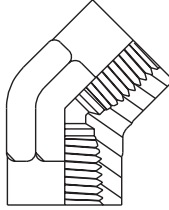


45° Female Pipe Elbow

4202 (DD45-S)

Female Pipe Thread / Female Pipe Thread

Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4-18	4202-4-4	1/4 DD45-S
3/8-18	4202-6-6	3/8 DD45-S
1/2-14	4202-8-8	1/2 DD45-S
3/4-14	4202-12-12	3/4 DD45-S
1-11 1/2	4202-16-16	1 DD45-S

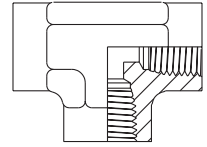


Female Pipe Tee

022T (MMO-S)

Female Pipe Thread (All Three Ends)

Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	022T-2-2	1/8 MMO-S
1/4-18	022T-4-4	1/4 MMO-S
3/8-18	022T-6-6	3/8 MMO-S
1/2-14	022T-8-8	1/2 MMO-S
3/4-14	022T-12-12	3/4 MMO-S
1-11 1/2	022T-16-16	1 MMO-S
1 1/4-11 1/2	022T-20-20	1 1/4 MMO-S
1 1/2-11 1/2	022T-24-24	1 1/2 MMO-S

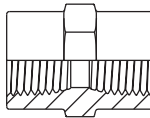


Pipe Coupling

0202 (GG-S)

Female Pipe Thread / Female Pipe Thread

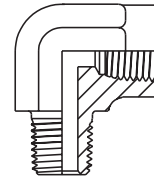
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27		0202-2-2	1/8 GG-S
1/4-18	1/8-27	0202-2-4	1/4 x 1/8 GG-S
1/4-18		0202-4-4	1/4 GG-S
3/8-18	1/8-27	0202-2-6	3/8 x 1/8 GG-S
3/8-18	1/4-18	0202-4-6	3/8 x 1/4 GG-S
3/8-18		0202-6-6	3/8 GG-S
1/2-14	1/4-18	0202-4-8	1/2 x 1/4 GG-S
1/2-14	3/8-18	0202-6-8	1/2 x 3/8 GG-S
1/2-14		0202-8-8	1/2 GG-S
3/4-14	1/4-18	0202-4-12	3/4 x 1/4 GG-S
3/4-14	1/2-14	0202-8-12	3/4 x 1/2 GG-S
3/4-14		0202-12-12	3/4 GG-S
1-11 1/2		0202-16-16	1 GG-S
1 1/4-11 1/2		0202-20-20	1-1/4 GG-S
1 1/2-11 1/2		0202-24-24	1-1/2 GG-S



Street Elbow

2102 (CD-S)

Male Pipe Thread / Female Pipe Thread



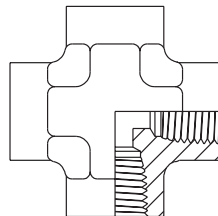
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	1/8-27	2102-2-2	1/8 CD-S
1/4-18	1/4-18	2102-4-4	1/4 CD-S
1/4-18	1/8-27	2102-2-4	1/4 x 1/8 CD-S
3/8-18	3/8-18	2102-6-6	3/8 CD-S
3/8-18	1/4-18	2102-4-6	3/8 x 1/4 CD-S
3/8-18	1/2-14	2102-6-8	3/8 x 1/2 CD-S
1/2-14	1/2-14	2102-8-8	1/2 CD-S
1/2-14	3/8-18	2102-6-8	1/2 x 3/8 CD-S
1/2-14	3/4-14	2102-8-12	1/2 x 3/4 CD-S
3/4-14	3/4-14	2102-12-12	3/4 CD-S
3/4-14	1/2-14	2102-8-12	3/4 x 1/2 CD-S
1-11 1/2	1-11 1/2	2102-16-16	1 CD-S
1 1/4-11 1/2	1 1/4-11 1/2	2102-20-20	1 1/4 CD-S
1 1/2-11 1/2	1 1/2-11 1/2	2102-24-24	1 1/2 CD-S

Female Pipe Cross

022X (KMMOOS)

Female Pipe Thread (All Four Ends)

Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	022X-2	1/8 KMMOO-S
1/4-18	022X-4	1/4 KMMOO-S
3/8-18	022X-6	3/8 KMMOO-S
1/2-14	022X-8	1/2 KMMOO-S
3/4-14	022X-12	3/4 KMMOO-S
1-11 1/2	022X-16	1 KMMOO-S

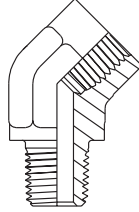


45° Street Elbow

3102 (CD45-S)

Male Pipe Thread / Female Pipe Thread

Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	1/8-27	3102-2-2	1/8 CD45-S
1/4-18	1/4-18	3102-4-4	1/4 CD45-S
3/8-18	3/8-18	3102-6-6	3/8 CD45-S
1/2-14	1/2-14	3102-8-8	1/2 CD45-S
3/4-14	3/4-14	3102-12-12	3/4 CD45-S
1-11 1/2	1-11 1/2	3102-16-16	1 CD45-S

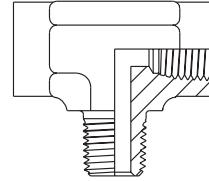


Male Branch Tee

212T (MMS-S)

Male Pipe Thread / Female Pipe Thread

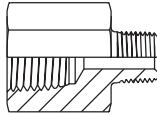
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	1/8-27	212T-2-2	1/8 MMS-S
1/4-18	1/4-18	212T-4-4	1/4 MMS-S
3/8-18	3/8-18	212T-6-6	3/8 MMS-S
1/2-14	1/2-14	212T-8-8	1/2 MMS-S
3/4-14	3/4-14	212T-12-12	3/4 MMS-S
1-11 1/2	1-11 1/2	212T-16-16	1 MMS-S



Expander / Adapter

0201 (FG-S)

Female Pipe Thread / Male Pipe Thread



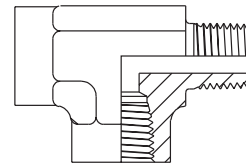
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	1/8-27	0201-2-2	1/8 FG-S
1/4-18	1/8-27	0201-4-2	1/4 x 1/8 FG-S
1/4-18	1/4-18	0201-4-4	1/4 FG-S
3/8-18	1/8-27	0201-6-2	3/8 x 1/8 FG-S
3/8-18	1/4-18	0201-6-4	3/8 x 1/4 FG-S
3/8-18	3/8-18	0201-6-6	3/8 FG-S
1/2-14	1/8-27	0201-8-2	1/2 x 1/8 FG-S
1/2-14	1/4-18	0201-8-4	1/2 x 1/4 FG-S
1/2-14	3/8-18	0201-8-6	1/2 x 3/8 FG-S
1/2-14	1/2-14	0201-8-8	1/2 FG-S
3/4-14	1/4-18	0201-12-4	3/4 x 1/4 FG-S
3/4-14	1/2-14	0201-12-8	3/4 x 1/2 FG-S
1-11 1/2	1/2-14	0201-16-8	1 x 1/2 FG-S
1-11 1/2	3/4-14	0201-16-12	1 x 3/4 FG-S
1 1/4-11 1/2	1-11 1/2	0201-20-16	1 1/4 x 1 FG-S

Male Run Tee

012T (MRO-S)

Male Pipe Thread / Female Pipe Thread

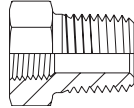
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	1/8-27	012T-2-2	1/8 MRO-S
1/4-18	1/4-18	012T-4-4	1/4 MRO-S
3/8-18	3/8-18	012T-6-6	3/8 MRO-S
1/2-14	1/2-14	012T-8-8	1/2 MRO-S
3/4-14	3/4-14	012T-12-12	3/4 MRO-S
1-11 1/2	1-11 1/2	012T-16-16	1 MRO-S



Pipe Thread Reducer

0102 (PTR-S)

Male Pipe Thread / Female Pipe Thread



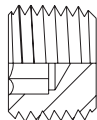
Port Thd NPTF	Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/4-18	1/8-27	0102-4-2	1/4 x 1/8 PTR-S
3/8-18	1/8-27	0102-6-2	3/8 x 1/8 PTR-S
3/8-18	1/4-18	0102-6-4	3/8 x 1/4 PTR-S
1/2-14	1/8-27	0102-8-2	1/2 x 1/8 PTR-S
1/2-14	1/4-18	0102-8-4	1/2 x 1/4 PTR-S
1/2-14	3/8-18	0102-8-6	1/2 x 3/8 PTR-S
3/4-14	1/4-18	0102-12-4	3/4 x 1/4 PTR-S
3/4-14	3/8-18	0102-12-6	3/4 x 3/8 PTR-S
3/4-14	1/2-14	0102-12-8	3/4 x 1/2 PTR-S
1-11 1/2	3/8-18	0102-16-6	1 x 3/8 PTR-S
1-11 1/2	1/2-14	0102-16-8	1 x 1/2 PTR-S
1-11 1/2	3/4-14	0102-16-12	1 x 3/4 PTR-S
1 1/4-11 1/2	1/2-14	0102-20-8	1 1/4 x 1/2 PTR-S
1 1/4-11 1/2	3/4-14	0102-20-12	1 1/4 x 3/4 PTR-S
1 1/4-11 1/2	1-11 1/2	0102-20-16	1 1/4 x 1 PTR-S
1 1/2-11 1/2	3/4-14	0102-24-12	1 1/2 x 3/4 PTR-S
1 1/2-11 1/2	1-11 1/2	0102-24-16	1 1/2 x 1 PTR-S
1 1/2-11 1/2	1 1/4-11 1/2	0102-24-20	1 1/2 x 1 1/4 PTR-S
2-11 1/2	1 1/4-11 1/2	0102-32-20	2 x 1 1/4 PTR-S

Hollow Hex Plug

01HP (HHP-S)

Male Pipe Thread

Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/16-27	01HP-1	1/16 HHP-S
1/8-27	01HP-2	1/8 HHP-S
1/4-18	01HP-4	1/4 HHP-S
3/8-18	01HP-6	3/8 HHP-S
1/2-14	01HP-8	1/2 HHP-S
3/4-14	01HP-12	3/4 HHP-S

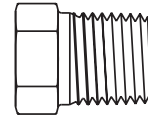


Hex Head Plug

01CP (HP-S)

Male Pipe Thread

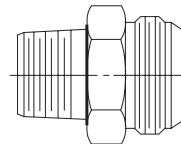
Port Thd NPTF	Hose Fitting Part No.	Tube Fitting Part No.
1/8-27	01CP-2	1/8 HP-S
1/4-18	01CP-4	1/4 HP-S
3/8-18	01CP-6	3/8 HP-S
1/2-14	01CP-8	1/2 HP-S
3/4-14	01CP-12	3/4 HP-S
1-11 1/2	01CP-16	1 HP-S



Male PTT Adapter

0109

Male Pipe - Male PTT 30° Flare



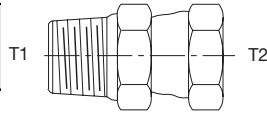
T1 Pipe Thread	T2 Straight Thread	Tube Size	Part No.
3/4-14	1 5/16-14	1	0109-12-16
1-11 1/2	1 5/16-14	1	0109-16-16
1 1/2-11 1/2	1 5/8-14	1 1/4	0109-20-20
1 1/2-11 1/2	1 7/8-14	1 1/2	0109-24-24
2-11 1/2	2 1/2-12	2	0109-32-32

Male Pipe Adapter

0107

Male Pipe (NPTF) / Female Pipe Swivel (NPSM)

T1 Pipe Thread	T2 Pipe Thread	Part No.
1/8-27	1/8-27	0107-2-2
1/8-27	1/4-18	0107-2-4
1/4-18	1/4-18	0107-4-4
3/8-18	1/4-18	0107-6-4
1/4-18	3/8-18	0107-4-6
3/8-18	3/8-18	0107-6-6
1/2-14	3/8-18	0107-8-6
1/4-18	1/2-14	0107-4-8
3/8-18	1/2-14	0107-6-8
1/2-14	1/2-14	0107-8-8
3/4-14	1/2-14	0107-12-8
1/2-14	3/8-14	0107-8-12
3/4-14	3/4-14	0107-12-12
3/4-14	1-11 1/2	0107-12-16
1-11 1/2	3/4-14	0107-16-12
1-11 1/2	1-11 1/2	0107-16-16
1-11 1/2	1 1/4-11 1/2	0107-16-20
1 1/4-11 1/2	1 1/4-11 1/2	0107-20-20
1 1/2-11 1/2	1 1/2-11 1/2	0107-24-24
2-11 1/2	2-11 1/2	0107-32-32

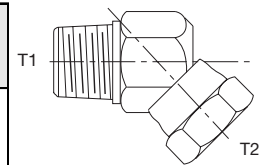


Male Pipe 45° Elbow

3107

Male Pipe (NPTF) / Female Pipe Swivel (NPSM)

T1 Pipe Thread	T2 Pipe Thread	Part No.
1/8-27	1/8-27	3107-2-2
1/4-18	1/4-18	3107-4-4
3/8-18	3/8-18	3107-6-6
1/2-14	3/8-18	3107-8-6
1/2-14	1/2-14	3107-8-8
3/4-14	1/2-14	3107-12-8
3/4-14	3/4-14	3107-12-12
1-11 1/2	3/4-14	3107-16-12
1-11 1/2	1-11 1/2	3107-16-16
1 1/4-11 1/2	1 1/4-11 1/2	3107-20-20
1 1/2-11 1/2	1 1/2-11 1/2	3107-24-24
2-11 1/2	2-11 1/2	3107-32-32

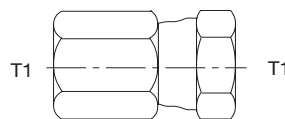


Female Pipe Adapter

0207

Female Pipe (NPTF) / Female Pipe Swivel (NPSM)

T1 Pipe Thread	Part No.
1/8-27	0207-2-2
1/4-18	0207-4-4
3/8-18	0207-6-6
1/2-14	0207-8-8
3/4-14	0207-12-12
1-11 1/2	0207-16-16
1 1/4-11 1/2	0207-20-20
1 1/2-11 1/2	0207-24-24
2-11 1/2	0207-32-32

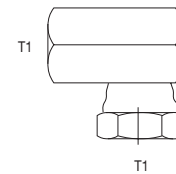


Female Pipe 90° Elbow

2207

Female Pipe (NPTF) / Female Pipe Swivel (NPSM)

T1 Pipe Thread	Part No.
1/8-27	2207-2-2
1/4-18	2207-4-4
3/8-18	2207-6-6
1/2-14	2207-8-8
3/4-14	2207-12-12
1-11 1/2	2207-16-16
1 1/4-11 1/2	2207-20-20
1 1/2-11 1/2	2207-24-24
2-11 1/2	2207-32-32

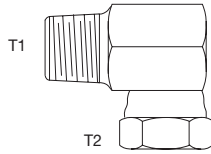


Male Pipe 90° Elbow

2107

Male Pipe (NPTF) / Female Pipe Swivel (NPSM)

T1 Pipe Thread	T2 Pipe Thread	Part No.
1/8-27	1/8-27	2107-2-2
1/4-18	1/4-18	2107-4-4
3/8-18	1/4-18	2107-6-4
1/4-18	3/8-18	2107-4-6
3/8-18	3/8-18	2107-6-6
1/2-14	3/8-18	2107-8-6
3/4-14	3/8-18	2107-12-6
3/8-18	1/2-14	2107-6-8
1/2-14	1/2-14	2107-8-8
3/4-14	1/2-14	2107-12-8
1/2-14	3/4-14	2107-8-12
3/4-14	3/4-14	2107-12-12
1-11 1/2	3/4-1	2107-16-12
1-11 1/2	1-11 1/2	2107-16-16
1 1/4-11 1/2	1 1/4-11 1/2	2107-20-20
1 1/2-11 1/2	1 1/2-11 1/2	2107-24-24
2-11 1/2	2-11 1/2	2107-32-32

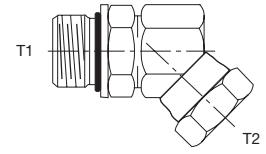


Straight Thread 45° Elbow

3507

SAE Straight Thread with O-Ring / Female Pipe Swivel (NPSM)

T1 Straight Thread	T2 Straight Thread	Port Size	Part No.
7/16-20	1/4-18	1/4	3507-4-4
9/16-18	3/8-18	3/8	3507-6-6
3/4-16	3/8-18	1/2	3507-8-6
3/4-16	1/2-14	1/2	3507-8-8
7/8-14	1/2-14	5/8	3507-10-8
3/4-16	3/4-14	1/2	3507-8-12
1 1/16-12	3/4-14	3/4	3507-12-12
1 5/16-12	1-11 1/2	1	3507-16-16

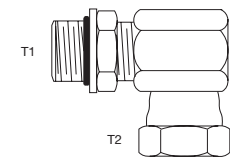


Straight Thread 90° Elbow

2507

SAE Straight Thread with O-Ring / Female Pipe Swivel (NPSM)

T1 Straight Thread	T2 Straight Thread	Port Size	Part No.
7/16-20	1/4-18	1/4	2507-4-4
9/16-18	1/4-18	3/8	2507-6-4
9/16-18	3/8-18	3/8	2507-6-6
3/4-16	3/8-18	1/2	2507-8-6
7/8-14	3/8-18	5/8	2507-10-6
3/4-16	1/2-14	1/2	2507-8-8
7/8-14	1/2-14	5/8	2507-10-8
1 1/16-12	1/2-14	3/4	2507-12-8
3/4-16	3/4-14	1/2	2507-8-12
7/8-14	3/4-14	5/8	2507-10-12
1 1/16-12	3/4-14	3/4	2507-12-12
1 5/16-12	1-11 1/2	1	2507-16-16
1 5/8-12	1 1/4-11 1/2	1 1/4	2507-20-20

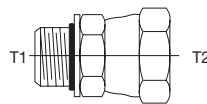


Straight Thread Adapter

0507

SAE Straight Thread with O-Ring / Female Pipe Swivel (NPSM)

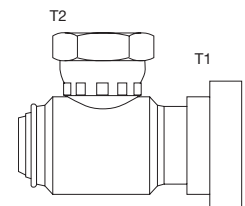
T1 Straight Thread	T1 Straight Thread	Port Size	Part No.
7/16-20	1/4-18	1/4	0507-4-4
9/16-18	1/4-18	3/8	0507-6-4
3/4-16	1/4-18	1/2	0507-8-4
9/16-18	3/8-18	3/8	0507-6-6
3/4-16	3/8-18	1/2	0507-8-6
9/16-18	1/2-14	3/8	0507-6-8
3/4-16	1/2-14	1/2	0507-8-8
7/8-14	1/2-14	5/8	0507-10-8
1 1/16-12	1/2-14	3/4	0507-12-8
3/4-16	3/4-14	1/2	0507-8-12
1 1/16-12	3/4-14	3/4	0507-12-12
1 5/16-12	1-11 1/2	1	0507-16-16
1 5/8-12	1 1/4-11 1/2	1 1/4	0507-20-20
1 7/8-12	1 1/2-11 1/2	1 1/2	0507-24-24
2 1/2-12	2-11 1/2	2	0507-32-32



Code 61 Flange - Female Pipe Swivel

S1907

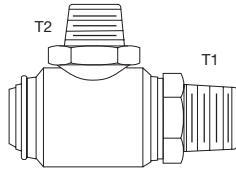
T1	T2	Part No.
1 3/4	1-11 1/2	S1907-16-16



Male Pipe Stem -
Male Pipe Arm

S2101

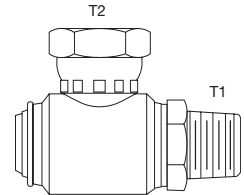
T1	T2	Part No.
1/4-18	1/4-18	S2101-4-4
3/8-18	3/8-18	S2101-6-6
1/2-12	1/2-12	S2101-8-8
3/4-14	3/4-14	S2101-12-12
1-11 1/2	1-11 1/2	S2101-16-16
1 1/4-11 1/2	1 1/4-11 1/2	S2101-20-20



Male Pipe Stem -
Female Pipe Swivel Nut Arm
“Nickel Plated/EPR Seal”

S2107E

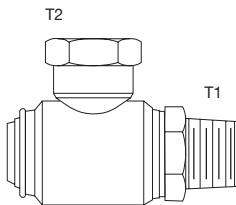
T1	T2	Part No.
3/8-18	3/8-18	S2107E-6-6



Male Pipe Stem -
Female Pipe Arm

S2102

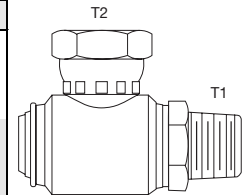
T1	T2	Part No.
1/2-14	3/4-16	S2102-8-8
3/4-14	1-1/16-12	S2102-12-12
1-11 1/2	1-5/16-12	S2102-16-16
1 1/4-11 1/2	1-5/8-12	S2102-20-20



Male Pipe Stem -
Female Pipe Swivel Nut Arm

S2107

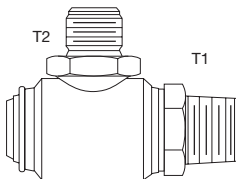
T1	T2	Part No.
1/4-18	1/4-18	S2107-4-4
3/8-18	3/8-18	S2107-6-6
1/2-14	1/2-14	S2107-8-8
3/4-14	3/4-14	S2107-12-12
1-11 1/2	1-11 1/2	S2107-16-16
1 1/4-11 1/2	1 1/4-11 1/2	S2107-20-20



Male Pipe Stem -
Male (JIC) 37° Flare Arm

S2103

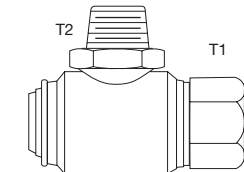
T1	T2	Part No.
1/4-18	7/16-20	S2103-4-4
1/4-18	1/4-20	S2103-4-5
1/4-18	9/16-18	S2103-4-6
3/8-18	9/16-18	S2103-6-6
3/8-18	3/4-16	S2103-6-8
1/2-14	3/4-16	S2103-8-8
1/2-14	7/8-14	S2103-8-10
3/4-14	1 1/16-12	S2103-12-12
1-11 1/2	1 5/16-12	S2103-16-16
1 1/4-11 1/2	1 5/8-12	S2103-20-20



Female Pipe Stem -
Male Pipe Arm

S2201

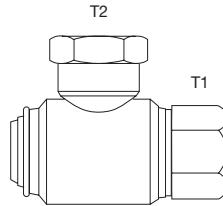
T1	T2	Part No.
1/4-18	1/4-18	S2201-4-4
3/8-18	3/8-18	S2201-6-6
1/2-14	1/2-14	S2201-8-8
3/4-14	3/4-14	S2201-12-12



Female Pipe Stem -
Female Pipe Arm

S2202

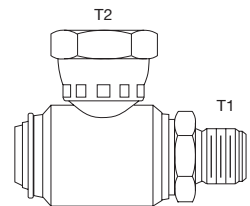
T1	T2	Part No.
1/4-18	1/4-18	S2202-4-4
3/8-18	3/8-18	S2202-6-6
1/2-14	1/2-14	S2202-8-8
3/4-14	3/4-14	S2202-12-12
1-11-1/2	1-11-1/2	S2202-16-16



Male (JIC) 37° Flare Stem-
Female Pipe Swivel Nut Arm

S2307

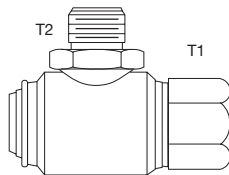
T1	T2	Part No.
3/4-16	3/8-16	S2307-8-6
7/8-14	1/2-14	S2307-10-8
1-1/16-12	3/4-14	S2307-12-12
1 5/16-12	1-11 1/2	S2307-16-16
1 5/8-12	1 1/4-11 1/2	S2307-20-20



Female Pipe Stem -
Male (JIC) 37° Flare Arm

S2203

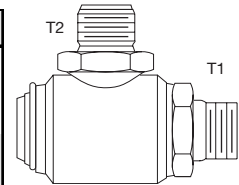
T1	T2	Part No.
1/2-14	3/4-16	S2203-8-8
3/4-14	1-1/16-12	S2203-12-12
1-11 1/2	1-5/16-12	S2203-16-16
1 1/4-11 1/2	1-5/8-12	S2203-20-20



Straight Thread with O-Ring
Stem - Male JIC 37° Flare
Arm

S2503

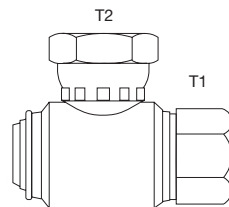
T1	T2	Part No.
3/4-16	3/4-16	S2503-8-8
7/8-14	7/8-14	S2503-10-8
1-1/16-12	1-1/16-12	S2503-12-12
1 5/16-12	1 5/16-12	S2503-16-16
1 5/8-12	1 5/8-12	S2503-20-20



Female Pipe Stem -
Female Pipe Swivel Nut Arm

S2207

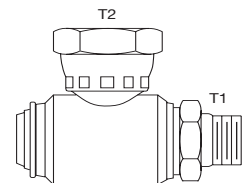
T1	T2	Part No.
1/2-14	1/2-14	S2207-8-8
3/4-14	3/4-14	S2207-12-12
1-11 1/2	1-11 1/2	S2207-16-16
1 1/4-11 1/2	1 1/4-11-1/2	S2207-20-20



Straight Thread with O-Ring
Stem - Female Pipe Swivel
Nut Arm

S2507

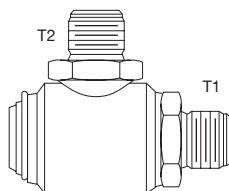
T1	T2	Part No.
1-1/16-12	3/4-14	S2507-12-12
1-5/16-12	1-11 1/2	S2507-16-16
1-5/8-12	1 1/4-11 1/2	S2507-20-20



Male (JIC) 37° Flare Stem-
Male (JIC) 37° Flare Arm

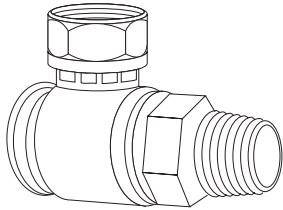
S2303

T1	T2	Part No.
3/4-16	3/8-18	S2303-8-6
7/8-14	3/4-16	S2303-10-8
1-1/16-12	1-1/16-12	S2303-12-12
1 5/16-12	1-5/16-12	S2303-16-16
1 5/8-12	1-5/8-12	S2303-20-20



Round Body S Series Swivels

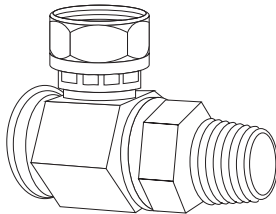
SK/SKE/SKV



For Swivel Size	Buna- N Seal Kit No.	EPR Seal Kit No.	Viton Seal Kit No.
-4 & -6	SK- 4/6	SKE- 4/6	SKV- 4/6
-8	SK- 8	SKE- 8	SKV- 8
-12	SK- 12	SKE- 12	SKV- 12
-16	SK- 16	SKE- 16	SKV- 16
-20	SK- 20	SKE- 20	SKV- 20

Hex Body S Series Swivels

RK

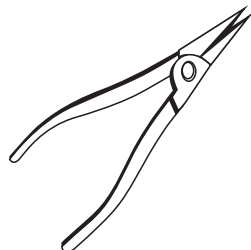


For Swivel Size	Buna- N Seal Kit No.	EPR Seal Kit No.	Viton Seal Kit No.
-12	RK - 12N	RK - 12E	RK - 12V
-20	RK - 20N	RK - 20E	RK - 20V

Field Assembly Service Tool

FP

For Swivel Size	Kit No.
-4 to -8	FP-2200
-12 to -16	FP-2400
-20	FP-2600

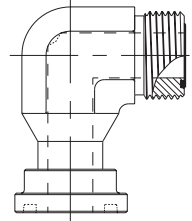


Seal-Lok/Code 61 Elbow

LOEQ1-S

ORFS Tube End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 61 Flange Size	Tube Fitting Part No.
3/4	1 3/16-12	3/4	12 LOEQ1-S
1	1 7/16-12	1	16 LOEQ1-S
1 1/4	1 11/16-12	1 1/4	20 LOEQ1-S
1 1/2	2-12	1 1/2	24 LOEQ1-S

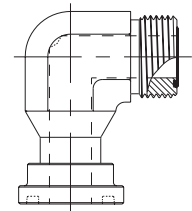


Seal-Lok/Code 62 Elbow

LOEQ2-S

ORFS Tube End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 62 Flange Size	Tube Fitting Part #
3/4	1 3/16-12	3/4	12 LOEQ2-S
1	1 7/16-12	1	16 LOEQ2-S
1 1/4	1 11/16-12	1 1/4	20 LOEQ2-S
1 1/2	2-12	1 1/2	24 LOEQ2-S



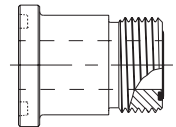
Seal-Lok/Code 61

Connector

LOHQ1-S

ORFS Tube End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 61 Flange Size	Tube Fitting Part No.
3/4	1 3/16-12	3/4	12 LOHQ1-S
1	1 7/16-12	1	16 LOHQ1-S
1 1/4	1 11/16-12	1 1/4	20 LOHQ1-S
1 1/2	2-12	1 1/2	24 LOHQ1-S



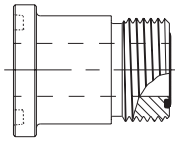
Seal-Lok/Code 62

Connector

LOHQ2-S

ORFS Tube End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 62 Flange Size	Tube Fitting Part No.
3/4	1 3/16-12	3/4	12 LOHQ2-S
1	1 7/16-12	1	16 LOHQ2-S
1 1/4	1 11/16-12	1 1/4	20 LOHQ2-S
1 1/2	2-12	1 1/2	24 LOHQ2-S

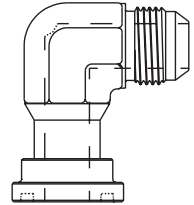


37°/Code 61 Elbow

XEQ1-S

Male 37° End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 61 Flange Size	Tube Fitting Part No.
3/4	1 1/16-12	3/4	12 XEQ1-S
1	1 5/16-12	1	16 XEQ1-S
1 1/4	1 5/8-12	1 1/4	20 XEQ1-S
1 1/2	1 7/8-12	1 1/2	24 XEQ1-S
2	2 1/2-12	2	32 XEQ1-S

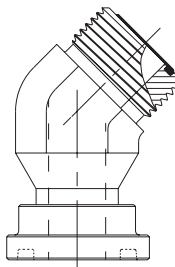


Seal-Lok/Code 61 45° Elbow

LOVQ1-S

ORFS Tube End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 61 Flange Size	Tube Fitting Part No.
3/4	1 3/16-12	3/4	12 LOVQ1-S
1	1 7/16-12	1	16 LOVQ1-S
1 1/4	1 11/16-12	1 1/4	20 LOVQ1-S
1 1/2	2-12	1 1/2	24 LOVQ1-S

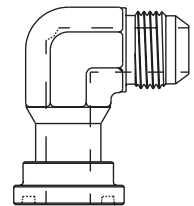


37°/Code 62 Elbow

XEQ2-S

Male 37° End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 62 Flange Size	Tube Fitting Part No.
3/4	1 1/16-12	3/4	12 XEQ2-S
1	1 5/16-12	1	16 XEQ2-S
1 1/4	1 5/8-12	1 1/4	20 XEQ2-S
1 1/2	1 7/8-12	1 1/2	24 XEQ2-S

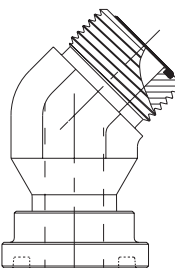


Seal-Lok/Code 62 45° Elbow

LOVQ2-S

ORFS Tube End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 62 Flange Size	Tube Fitting Part No.
3/4	1 3/16-12	3/4	12 LOVQ2-S
1	1 7/16-12	1	16 LOVQ2-S
1 1/4	1 11/16-12	1 1/4	20 LOVQ2-S
1 1/2	2-12	1 1/2	24 LOVQ2-S

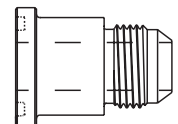


37°/Code 61 Connector

XHQ1-S

Male 37° End / Flange End

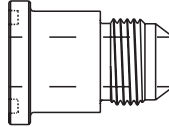
Tube O.D.	Tube End Un/Unf-2A	Code 61 Flange Size	Tube Fitting Part No.
3/4	1 1/16-12	3/4	12 XHQ1-S
1	1 5/16-12	1	16 XHQ1-S
1 1/4	1 5/8-12	1 1/4	20 XHQ1-S
1 1/2	1 7/8-12	1 1/2	24 XHQ1-S
2	2 1/2-12	2	32 XHQ1-S



37°/Code 62 Connector
XHQ2-S

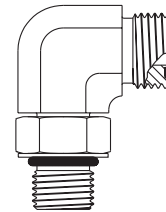
Male 37° End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 62 Flange Size	Tube Fitting Part No.
3/4	1 1/16-12	3/4	12 XHQ2-S
1	1 5/16-12	1	16 XHQ2-S
1 1/4	1 5/8-12	1 1/4	20 XHQ2-S
1 1/2	1 7/8-12	1 1/2	24 XHQ2-S



Straight Thread Elbow
C5OLO-S

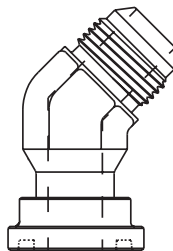
ORFS Male End / Straight Thread O-Ring



37°/Code 61 45° Elbow
XVQ1-S

Male 37° End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 61 Flange Size	Tube Fitting Part No.
3/4	1 1/16-12	3/4	12 XVQ1-S
1	1 5/16-12	1	16 XVQ1-S
1 1/4	1 5/8-12	1 1/4	20 XVQ1-S
1 1/2	1 7/8-12	1 1/2	24 XVQ1-S
2	2 1/2-12	2	32 XVQ1-S

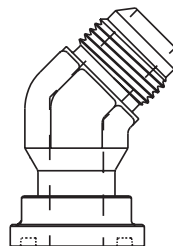


Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Part No.
1/4	9/16-18	7/16-20	4 C5OLO-S
1/4	9/16-18	9/16-18	4-6 C5OLO-S
3/8	11/16-16	9/16-18	6 C5OLO-S
3/8	11/16-16	7/16-20	6-4 C5OLO-S
3/8	11/16-16	3/4-16	6-8 C5OLO-S
3/8	11/16-16	7/8-14	6-10 C5OLO-S
1/2	13/16-16	3/4-16	8 C5OLO-S
1/2	13/16-16	9/16-18	8-6 C5OLO-S
1/2	13/16-16	7/8-14	8-10 C5OLO-S
1/2	13/16-16	1 1/16-12	8-12 C5OLO-S
5/8	1-14	7/8-14	10 C5OLO-S
5/8	1-14	3/4-16	10-8 C5OLO-S
5/8	1-14	1 1/16-12	10-12 C5OLO-S
3/4	1 3/16-12	1 1/16-12	12 C5OLO-S
3/4	1 3/16-12	3/4-16	12-8 C5OLO-S
3/4	1 3/16-12	7/8-14	12-10 C5OLO-S
3/4	1 3/16-12	1 5/16-12	12-16 C5OLO-S
1	1 7/16-12	1 5/16-12	16 C5OLO-S
1	1 7/16-12	1 1/16-12	16-12 C5OLO-S
1	1 7/16-12	1 5/8-12	16-20 C5OLO-S
1 1/4	1 11/16-12	1 5/8-12	20 C5OLO-S
1 1/4	1 11/16-12	1 5/16-12	20-16 C5OLO-S
1 1/4	1 11/16-12	1 7/8-12	20-24 C5OLO-S
1 1/2	2-12	1 7/8-12	24 C5OLO-S
1 1/2	2-12	1 5/8-12	24-20 C5OLO-S

37°/Code 62 45° Elbow
XVQ2-S

Male 37° End / Flange End

Tube O.D.	Tube End Un/Unf-2A	Code 62 Flange Size	Tube Fitting Part No.
3/4	1 1/16-12	3/4	12 XVQ2-S
1	1 5/16-12	1	16 XVQ2-S
1 1/4	1 5/8-12	1 1/4	20 XVQ2-S
1 1/2	1 7/8-12	1 1/2	24 XVQ2-S

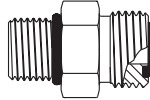


Straight Thread Connector

F5OLO-S

ORFS Male End / Straight Thread O-Ring

Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Part No.
1/4	9/16-18	7/16-20	4 F5OLO-S
1/4	9/16-18	9/16-18	4-6 F5OLO-S
1/4	9/16-18	3/4-16	4-8 F5OLO-S
3/8	11/16-16	9/16-18	6 F5OLO-S
3/8	11/16-16	7/16-20	6-4 F5OLO-S
3/8	11/16-16	3/4-16	6-8 F5OLO-S
3/8	11/16-16	7/8-14	6-10 F5OLO-S
1/2	13/16-16	3/4-16	8 F5OLO-S
1/2	13/16-16	9/16-18	8-6 F5OLO-S
1/2	13/16-16	7/8-14	8-10 F5OLO-S
1/2	13/16-16	1 1/16-12	8-12 F5OLO-S
1/2	13/16-16	1 5/16-12	8-16 F5OLO-S
5/8	1-14	7/8-14	10 F5OLO-S
5/8	1-14	3/4-16	10-8 F5OLO-S
5/8	1-14	1 1/16-12	10-12 F5OLO-S
3/4	1 3/16-12	1 1/16-12	12 F5OLO-S
3/4	1 3/16-12	3/4-16	12-8 F5OLO-S
3/4	1 3/16-12	7/8-14	12-10 F5OLO-S
3/4	1 3/16-12	1 5/16-12	12-16 F5OLO-S
1	1 7/16-12	1 5/16-12	16 F5OLO-S
1	1 7/16-12	1 1/16-12	16-12 F5OLO-S
1	1 7/16-12	1 5/8-12	16-20 F5OLO-S
1 1/4	1 11/16-12	1 5/8-12	20 F5OLO-S
1 1/4	1 11/16-12	1 5/16-12	20-16 F5OLO-S
1 1/4	1 11/16-12	1 7/8-12	20-24 F5OLO-S
1 1/2	2-12	1 7/8-12	24 F5OLO-S
1 1/2	2-12	1 5/8-12	24-20 F5OLO-S

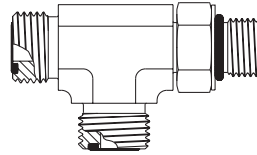


Straight Thread Run Tee

R5OLO-S

ORFS Male Ends / Straight Thread O-Ring

Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Part No.
1/4	9/16-18	7/16-20	4 R5OLO-S
3/8	11/16-16	9/16-18	6 R5OLO-S
1/2	13/16-16	3/4-16	8 R5OLO-S
5/8	1-4	7/8-14	10 R5OLO-S
3/4	1 3/16-12	1 1/16-12	12 R5OLO-S
1	1 7/16-12	1 5/16-12	16 R5OLO-S
1 1/4	1 11/16-12	1 5/8-12	20 R5OLO-S
1 1/2	2-12	1 7/8-12	24 R5OLO-S

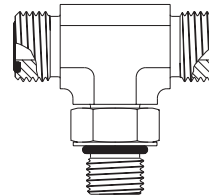


Straight Thread Branch Tee

S5OLO-S

ORFS Male Ends / Straight Thread O-Ring

Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Part No.
1/4	9/16-18	7/16-20	4 S5OLO-S
3/8	11/16-16	9/16-18	6 S5OLO-S
1/2	13/16-16	3/4-16	8 S5OLO-S
5/8	1-14	7/8-14	10 S5OLO-S
3/4	1 3/16-12	1 1/16-12	12 S5OLO-S
1	1 7/16-12	1 5/16-12	16 S5OLO-S
1 1/4	1 11/16-12	1 5/8-12	20 S5OLO-S
1 1/2	2-12	1 7/8-12	24 S5OLO-S

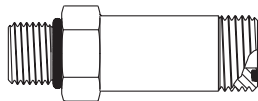


Long Straight Thread Connector

FF5OLO-S

ORFS Male End / Straight Thread O-Ring

Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Part No.
1/4	9/16-18	7/16-20	4 FF5OLO-S
3/8	11/16-16	9/16-18	6 FF5OLO-S
1/2	13/16-16	3/4-16	8 FF5OLO-S
5/8	1-14	7/8-14	10 FF5OLO-S
3/4	1 3/16-12	1 1/16-12	12 FF5OLO-S
1	1 7/16-12	1 5/16-12	16 FF5OLO-S
1 1/4	1 11/16-12	1 5/8-12	20 FF5OLO-S
1 1/2	2-12	1 7/8-12	24 FF5OLO-S

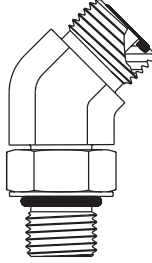


45 Straight Thread Elbow

V5OLO-S

ORFS Male End / Straight Thread O-Ring

Tube O.D.	Tube End Un/Unf-2A	Port Thread Un/Unf-2A	Part No.
1/4	9/16-18	7/16-20	4 V5OLO-S
1/4	9/16-18	9/16-18	4-6 V5OLO-S
3/8	11/16-16	9/16-18	6 V5OLO-S
3/8	11/16-16	7/16-20	6-4 V5OLO-S
3/8	11/16-16	3/4-16	6-8 V5OLO-S
1/2	13/16-16	3/4-16	8 V5OLO-S
1/2	13/16-16	9/16-18	8-6 V5OLO-S
1/2	13/16-16	7/8-14	8-10 V5OLO-S
5/8	1-14	7/8-14	10 V5OLO-S
5/8	1-14	3/4-16	10-8 V5OLO-S
5/8	1-14	1 1/16-12	10-12 V5OLO-S
3/4	1 3/16-12	1 1/16-12	12 V5OLO-S
3/4	1 3/16-12	7/8-14	12-10 V5OLO-S
3/4	1 3/16-12	1 5/16-12	12-16 V5OLO-S
1	1 7/16-12	1 5/16-12	16 V5OLO-S
1	1 7/16-12	1 1/16-12	16-12 V5OLO-S
1	1 7/16-12	1 5/8-12	16-20 V5OLO-S
1 1/4	1 11/16-12	1 5/8-12	20 V5OLO-S
1 1/2	2-12	1 7/8-12	24 V5OLO-S

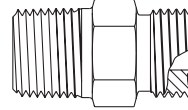


Male Pipe Connector

FLO-S

ORFS Male End / Male Pipe End

Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Part No.
1/4	9/16-18	1/8-27	4 FLO-S
1/4	9/16-18	1/4-18	4-4 FLO-S
1/4	9/16-18	3/8-18	4-6 FLO-S
3/8	11/16-16	1/4-18	6 FLO-S
3/8	11/16-16	3/8-18	6-6 FLO-S
3/8	11/16-16	1/2-14	6-8 FLO-S
1/2	13/16-16	3/8-18	8 FLO-S
1/2	13/16-16	1/2-14	8-8 FLO-S
1/2	13/16-16	3/4-14	8-12 FLO-S
5/8	1-14	1/2-14	10 FLO-S
5/8	1-14	3/4-14	10-12 FLO-S
3/4	1 3/16-12	3/4-14	12 FLO-S
3/4	1 3/16-12	1/2-14	12-8 FLO-S
3/4	1 3/16-12	1-11 1/2	12-16 FLO-S
1	1 7/16-12	1-11 1/2	16 FLO-S
1	1 7/16-12	3/4-14	16-12 FLO-S
1 1/4	1 11/16-12	1 1/4-11 1/2	20 FLO-S
1 1/2	2-12	1 1/2-11 1/2	24 FLO-S

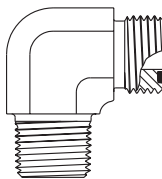


Male Pipe Elbow

CLO-S

ORFS Male End / Male Pipe End

Tube O.D.	Tube End Un/Unf-2A	Port Thread NPTF	Part No.
1/4	9/16-18	1/8-27	4 CLO-S
1/4	9/16-18	1/4-18	4-4 CLO-S
3/8	11/16-16	1/4-18	6 CLO-S
3/8	11/16-16	3/8-18	6-6 CLO-S
3/8	11/16-16	1/2-14	6-8 CLO-S
1/2	13/16-16	3/8-18	8 CLO-S
1/2	13/16-16	1/2-14	8-8 CLO-S
1/2	13/16-16	3/4-14	8-12 CLO-S
5/8	1-14	1/2-14	10 CLO-S
5/8	1-14	3/4-14	10-12 CLO-S
3/4	1 3/16-12	3/4-14	12 CLO-S
3/4	1 3/16-12	1/2-14	12-8 CLO-S
3/4	1 3/16-12	1-11 1/2	12-16 CLO-S
1	1 7/16-12	1-11 1/2	16 CLO-S
1	1 7/16-12	3/4-14	16-12 CLO-S
1 1/4	1 11/16-12	1 1/4-11 1/2	20 CLO-S
1 1/2	2-12	1 1/2-11 1/2	24 CLO-S

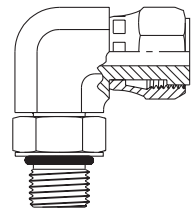


Straight Thread Swivel Elbow

AOEL6-S

ORFS Swivel / Straight Thread O-Ring

Tube O.D.	Port Thread Un/Unf-2A	Swivel Un/Unf-2A	Part No.
1/4	7/16-20	9/16-18	4 AOEL6-S
3/8	9/16-18	11/16-16	6 AOEL6-S
1/2	3/4-16	13/16-16	8 AOEL6-S
5/8	7/8-14	1-14	10 AOEL6-S
3/4	1 1/16-12	1 3/16-12	12 AOEL6-S
1	1 5/16-12	1 7/16-12	16 AOEL6-S
1 1/4	1 5/8-12	1 11/16-12	20 AOEL6-S
1 1/2	1 7/8-12	2-12	24 AOEL6-S

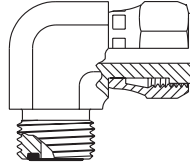


Swivel Nut Elbow

C6LO-S

ORFS Swivel / ORFS Tube End

Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2A	Part No.
1/4	9/16-18	9/16-18	4 C6LO-S
3/8	11/16-16	11/16-16	6 C6LO-S
1/2	13/16-16	13/16-16	8 C6LO-S
5/8	1-14	1-14	10 C6LO-S
3/4	1 3/16-12	1 3/16-12	12 C6LO-S
1	1 7/16-12	1 7/16-12	16 C6LO-S
1 1/4	1 11/16-12	1 11/16-12	20 C6LO-S
1 1/2	2-12	2-12	24 C6LO-S

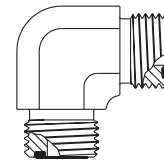


Union Elbow

ELO-S

ORFS Male End / ORFS Male End

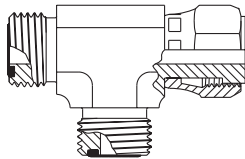
Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 ELO-S
3/8	11/16-16	6 ELO-S
1/2	13/16-16	8 ELO-S
5/8	1-14	10 ELO-S
3/4	1 3/16-12	12 ELO-S
1	1 7/16-12	16 ELO-S
1 1/4	1 11/16-12	20 ELO-S
1 1/2	2-12	24 ELO-S



Swivel Nut Run Tee

R6LO-S

ORFS Swivel / ORFS Tube Ends



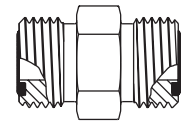
Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Part No.
1/4	9/16-18	9/16-18	4 R6LO-S
3/8	11/16-16	11/16-16	6 R6LO-S
1/2	13/16-16	13/16-16	8 R6LO-S
5/8	1-14	1-14	10 R6LO-S
3/4	1 3/16-12	1 3/16-12	12 R6LO-S
1	1 7/16-12	1 7/16-12	16 R6LO-S
1 1/4	1 11/16-12	1 11/16-12	20 R6LO-S
1 1/2	2-12	2-12	24 R6LO-S

Union

HLO-S

ORFS Male End / ORFS Male End

Tube O.D.	Tube End Un/Unf-2A	Tube End Un/Unf-2A	Part No.
1/4	9/16-18		4 HLO-S
3/8	11/16-16		6 HLO-S
3/8	11/16-16	9/16-18	6-4 HLO-S
1/2	13/16-16		8 HLO-S
1/2	13/16-16	11/16-16	8-6 HLO-S
5/8	1-14		10 HLO-S
5/8	1-14	13/16-16	10-8 HLO-S
3/4	1 3/16-12		12 HLO-S
3/4	1 3/16-12	1-14	12-10 HLO-S
1	1 7/16-12		16 HLO-S
1	1 7/16-12	1 3/16-12	16-12 HLO-S
1 1/4	1 11/16-12		20 HLO-S
1 1/2	2-12		24 HLO-S

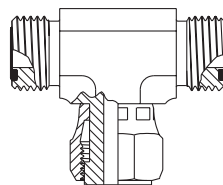


Swivel Nut Branch Tee

S6LO-S

ORFS Swivel / ORFS Tube Ends

Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Part No.
1/4	9/16-18	9/16-18	4 S6LO-S
3/8	11/16-16	11/16-16	6 S6LO-S
1/2	13/16-16	13/16-16	8 S6LO-S
5/8	1-14	1-14	10 S6LO-S
3/4	1 3/16-12	1 3/16-12	12 S6LO-S
1	1 7/16-12	1 7/16-12	16 S6LO-S
1 1/4	1 11/16-12	1 11/16-12	20 S6LO-S
1 1/2	2-12	2-12	24 S6LO-S

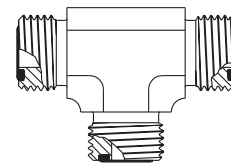


Union Tee

JLO-S

ORFS Male End (All Three Ends)

Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 JLO-S
3/8	11/16-16	6 JLO-S
1/2	13/16-16	8 JLO-S
5/8	1-14	10 JLO-S
3/4	1 3/16-12	12 JLO-S
1	1 7/16-12	16 JLO-S
1 1/4	1 11/16-12	20 JLO-S
1 1/2	2-12	24 JLO-S

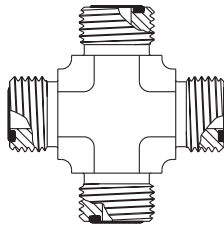


Union Cross

KLO-S

ORFS Male End (All Four Ends)

Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 KLO-S
3/8	11/16-16	6 KLO-S
1/2	13/16-16	8 KLO-S
5/8	1-14	10 KLO-S
3/4	1 3/16-12	12 KLO-S
1	1 7/16-12	16 KLO-S
1 1/4	1 11/16-12	20 KLO-S

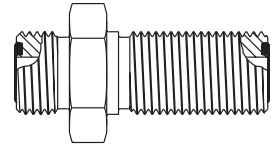


Bulkhead Union

WLO-S

ORFS Male End / ORFS Male End

Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 WLO-S
3/8	11/16-16	6 WLO-S
1/2	13/16-16	8 WLO-S
5/8	1-14	10 WLO-S
3/4	1 3/16-12	12 WLO-S
1	1 7/16-12	16 WLO-S
1 1/4	1 11/16-12	20 WLO-S
1 1/2	2-12	24 WLO-S

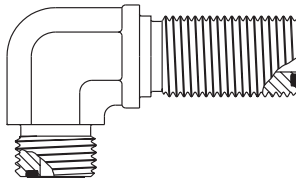


Bulkhead Union Elbow

WELO-S

ORFS Male End / ORFS Tube End

Tube O.D.	Tube End UN/Unf-2A	Part No.
1/4	9/16-18	4 WELO-S
3/8	11/16-16	6 WELO-S
1/2	13/16-16	8 WELO-S
5/8	1-14	10 WELO-S
3/4	1 3/16-12	12 WELO-S
1	1 7/16-12	16 WELO-S
1 1/4	1 11/16-12	20 WELO-S
1 1/2	2-12	24 WELO-S

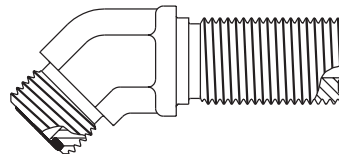


45° Bulkhead Union Elbow

WNLO-S

ORFS Male End / ORFS Male End

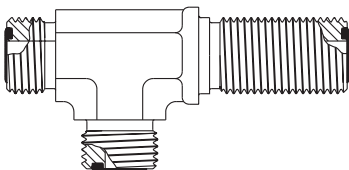
Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 WNLO-S
3/8	11/16-16	6 WNLO-S
1/2	13/16-16	8 WNLO-S
5/8	1-14	10 WNLO-S
3/4	1 3/16-12	12 WNLO-S
1	1 7/16-12	16 WNLO-S
1 1/4	1 11/16-12	20 WNLO-S
1 1/2	2-12	24 WNLO-S



Bulkhead Run Tee

WJJLO-S

ORFS Male End (All Three Ends)



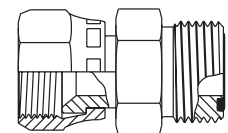
Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 WJJLO-S
3/8	11/16-16	6 WJJLO-S
1/2	13/16-16	8 WJJLO-S
5/8	1-14	10 WJJLO-S
3/4	1 3/16-12	12 WJJLO-S
1	1 7/16-12	16 WJJLO-S
1 1/4	1 11/16-12	20 WJJLO-S
1 1/2	2-12	24 WJJLO-S

37° Swivel Adapter

LOHX6-S

37° Swivel / ORFS Male End

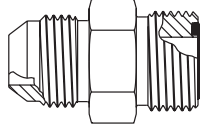
Tube O.D.	Tube End Un/Unf-2A	Swivel Un/Unf-2B	Tube Fitting Part No.
1/4	9/16-18	7/16-20	4 LOHX6-S
3/8	11/16-16	9/16-18	6 LOHX6-S
1/2	13/16-16	3/4-16	8 LOHX6-S
5/8	1-14	7/8-14	10 LOHX6-S
3/4	1 3/16-12	1 1/16-12	12 LOHX6-S
1	1 7/16-12	1 5/16-12	16 LOHX6-S



37° Male Adapter

XHLO-S

37° Tube End / ORFS Male End



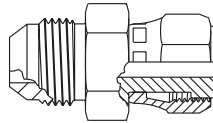
Tube O.D.	Tube End Un/Unf-2A	Tube End Un/Unf-2B	Tube Fitting Part No.
1/4	9/16-18	7/16-20	4 XHLO-S
3/8	11/16-16	9/16-18	6 XHLO-S
1/2	13/16-16	3/4-16	8 XHLO-S
5/8	1-14	7/8-14	10 XHLO-S
3/4	1 3/16-12	1 1/16-12	12 XHLO-S
1	1 7/16-12	1 5/16-12	16 XHLO-S
1 1/4	1 11/16-12	1 5/8-12	20 XHLO-S
1 1/2	2-12	1 7/8-12	24 XHLO-S

37° Male Converter

XHL6-S

ORFS Swivel / 37° Tube End

Tube O.D.	Tube THD Un/Unf-2A	Swivel Un/Unf-2B	Tube Fitting Part No.
1/4	7/16-20	9/16-18	4 XHL6-S
3/8	9/16-18	11/16-16	6 XHL6-S
1/2	3/4-16	13/16-16	8 XHL6-S
5/8	7/8-14	1-14	10 XHL6-S
3/4	1 1/16-12	1 3/16-12	12 XHL6-S
1	1 5/16-12	1 7/16-12	16 XHL6-S
1 1/4	1 5/8-12	1 11/16-12	20 XHL6-S

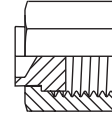


Cap

FNL-S

ORFS Tube End Cap

Tube O.D.	Un/Unf-2B	Part No.
1/4	9/16-18	4 FNL-S
3/8	11/16-16	6 FNL-S
1/2	13/16-16	8 FNL-S
5/8	1-14	10 FNL-S
3/4	1 3/16-12	12 FNL-S
1	1 7/16-12	16 FNL-S
1 1/4	1 11/16-12	20 FNL-S
1 1/2	2-12	24 FNL-S

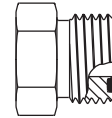


Plug

PNLO-S

ORFS Tube End Plug

Tube O.D.	Tube End Un/Unf-2A	Part No.
1/4	9/16-18	4 PNLO-S
3/8	11/16-16	6 PNLO-S
1/2	13/16-16	8 PNLO-S
5/8	1-14	10 PNLO-S
3/4	1 3/16-12	12 PNLO-S
1	1 7/16-12	16 PNLO-S
1 1/4	1 11/16-12	20 PNLO-S
1 1/2	2-12	24 PNLO-S

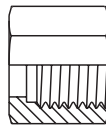


Nut

BL-S

ORFS Tube Nut

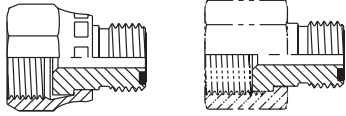
Tube O.D.	Un/Unf-2B	Part No.
1/4	9/16-18	4 BL-S
3/8	11/16-16	6 BL-S
1/2	13/16-16	8 BL-S
5/8	1-14	10 BL-S
3/4	1 3/16-12	12 BL-S
3/4	1 3/16-12	12-14 BL-S
1	1 7/16-12	16 BL-S
1 1/4	1 11/16-12	20 BL-S
1 1/2	2-12	24 BL-S



Tube End Reducer

TRLO-S

Flat Face / ORFS Tube End



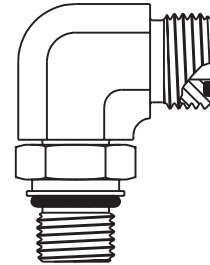
Tube O.D.	Tube End Un/Unf-2A	Un/Unf-2B	Part No.
3/8	9/16-18	11/16-16	*6-4 TRLO-S
1/2	9/16-18	13/16-16	8-4 TRLO-S
1/2	11/16-16	13/16-16	*8-6 TRLO-S
5/8	9/16-18	1-14	10-4 TRLO-S
5/8	11/16-16	1-14	10-6 TRLO-S
5/8	13/16-16	1-14	10-8 TRLO-S
3/4	9/16-18	1 3/16-12	12-4 TRLO-S
3/4	11/16-16	1 3/16-12	12-6 TRLO-S
3/4	13/16-16	1 3/16-12	12-8 TRLO-S
3/4	1-14	1 3/16-12	*12-10 TRLO-S
1	13/16-16	1 7/16-12	16-8 TRLO-S
1	1-14	1 7/16-12	16-10 TRLO-S
1	1 3/16-12	1 7/16-12	*16-12 TRLO-S
1 1/4	1 3/16-12	1 11/16-12	20-12 TRLO-S
1 1/4	1 7/16-12	1 11/16-12	*20-16 TRLO-S
1 1/2	1 7/16-12	2-12	24-16 TRLO-S
1 1/2	1 11/16-12	2-12	24-20 TRLO-S

*These sizes come manufactured with a crimp style nut on the large end.

90° Male Elbow

C87OMLO

ORFS Tube End / Metric Straight Thread O-Ring



Tube O.D. (mm)	D Tube End UN/UNF-2A	M Port Thread ISO 261	Tube Fitting Part #
6	9/16-18	M12X1.5	4M12C87OMLO
8	9/16-18	M14X1.5	4M14C87OMLO
10	11/16-16	M12X1.5	6M12C87OMLO
10	11/16-16	M14X1.5	6M14C87OMLO
10	11/16-16	M16X1.5	6M16C87OMLO
12	13/16-16	M14X1.5	8M14C87OMLO
12	13/16-16	M18X1.5	8M18C87OMLO
12	13/16-16	M22X1.5	8M22C87OMLO
16	1-14	M18X1.5	10M18C87OMLO
16	1-14	M22X1.5	10M22C87OMLO
20	1 3/16-12	M22X1.5	12M22C87OMLO
20	1 3/16-12	M27X2	12M27C87OMLO
25	1 7/16-12	M33X2	16M33C87OMLO
30	1 11/16-12	M38X2	20M38C87OMLO
30	1 11/16-12	M42X2	20M42C87OMLO
38	2-12	M48X2	24M48C87OMLO

Bulkhead Locknut

WLNL

Bulkhead Fitting Locknut

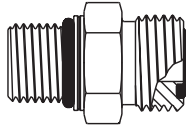
Tube O.D.	Tube End Un/Unf-2B	Part No.
1/4	9/16-18	4 WLNL
3/8	11/16-16	6 WLNL
1/2	13/16-16	8 WLNL
5/8	1-14	10 WLNL
3/4	1 3/16-12	12 WLNL
1	1 7/16-12	16 WLNL
1 1/4	1 11/16-12	20 WLNL
1 1/2	2-12	24 WLNL



Straight Male Connector

F870MLO

ORFS Tube End / Metric Straight Thread
O-Ring

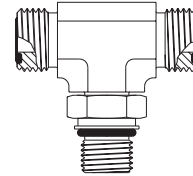


Tube O.D. (mm)	T Tube End UN/UNF-2A	T42 Port Thread BSP	Tube Fitting Part #
6	9/16-18	1/8 - 28	4F42EDMLO
6	9/16-18	1/4 - 19	4-4F42EDMLO
6	9/16-18	3/8 - 19	4-6F42EDMLO
6	9/16-18	1/2 - 14	4-8F42EDMLO
8,10	11/16-16	1/8 - 28	6-2F42EDMLO
8,10	11/16-16	1/4 - 19	6F42EDMLO
8,10	11/16-16	3/8 - 19	6-6F42EDMLO
8,10	11/16-16	1/2 - 14	6-8F42EDMLO
8,10	11/16-16	3/4 - 14	6-12F42EDMLO
12	13/16-16	1/4 - 19	8-4F42EDMLO
12	13/16-16	3/8 - 19	8F42EDMLO
12	13/16-16	1/2 - 14	8-8F42EDMLO
12	13/16-16	3/4 - 14	8-12F42EDMLO
14,15,16	1-14	3/8 - 19	10-6F42EDMLO
14,15,16	1-14	1/2 - 14	10F42EDMLO
14,15,16	1-14	3/4 - 14	10-12F42EDMLO
14,15,16	1-14	1 - 11	10-16F42EDMLO
18,20	1 3/16-12	1/2 - 14	12-8F42EDMLO
18,20	1 3/16-12	3/4 - 14	12F42EDMLO
18,20	1 3/16-12	1 - 11	12-16F42EDMLO
18,19,20	1 3/16-12	1 1/4 - 11	12-20F42EDMLO
22,25	1 7/16-12	3/4 - 14	16-12F42EDMLO
22,25	1 7/16-12	1 - 11	16F42EDMLO
22,25	1 7/16-12	1 1/4 - 11	16-20F42EDMLO
22,25	1 7/16-12	1 1/2 - 11	16-24F42EDMLO
28,30,32	1 11/16-12	1 - 11	20-16F42EDMLO
28,30,32	1 11/16-12	1 1/4 - 11	20F42EDMLO
28,30,32	1 11/16-12	1 1/2 - 11	20-24F42EDMLO
38	2-12	1 1/2 - 11	24F42EDMLO

Male Branch Tee

S870MLO

ORFS Tube Ends / Metric Straight Thread
O-Ring

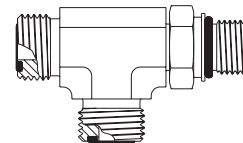


Tube O.D. (mm)	D Tube End UN/UNF-2A	M Port Thread ISO 261	Tube Fitting Part #
6	43359	M12X1.5	4M12S870MLO
8	43359	M14X1.5	4M14S870MLO
10	42690	M14X1.5	6M14S870MLO
10	42690	M16X1.5	6M16S870MLO
12	13/16-16	M14X1.5	8M14S870MLO
12	13/16-16	M18X1.5	8M18S870MLO
12	13/16-16	M22X1.5	8M22S870MLO
16	36174	M22X1.5	10M22S870MLO
20	1 3/16-12	M27X2	12M27S870MLO
25	1 7/16-12	M33X2	16M33S870MLO
30	1 11/16-12	M42X2	20M42S870MLO
38	2-12	M48X2	24M48S870MLO

Male Run Tee

R870MLO

ORFS Tube Ends / Metric Straight Thread
O-Ring

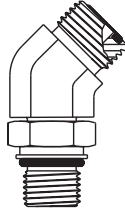


Tube O.D. (mm)	D Tube End UN/UNF-2A	M Port Thread ISO 261	Tube Fitting Part #
6	9/16-18	M12X1.5	4M12R870MLO
8	9/16-18	M14X1.5	4M14R870MLO
10	11/16-16	M14X1.5	6M14R870MLO
10	11/16-16	M16X1.5	6M16R870MLO
12	13/16-16	M14X1.5	8M14R870MLO
12	13/16-16	M18X1.5	8M18R870MLO
12	13/16-16	M22X1.5	8M22R870MLO
16	1-14	M22X1.5	10M22R870MLO
20	1 3/16-12	M27X2	12M27R870MLO
25	1 7/16-12	M33X2	16M33R870MLO
30	1 11/16-12	M42X2	20M42R870MLO
38	2-12	M48X2	24M48R870MLO

45° Male Elbow

V87OMLO

ORFS Tube End / Metric Straight Thread O-Ring

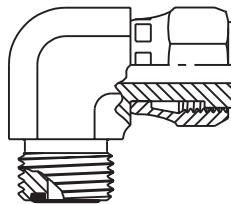


Tube O.D. (mm)	D Tube End UN/UNF-2A	M Port Thread ISO 261	Tube Fitting Part #
6	9/16 -18	M12X1.5	4M12V87OMLO
8	9/16 -18	M14X1.5	4M14V87OMLO
10	11/16 -16	M16X1.5	6M16V87OMLO
12	13/16 -16	M18X1.5	8M18V87OMLO
16	1-14	M22X1.5	10M22V87OMLO
20	1 3/16 -12	M27X2	12M27V87OMLO
30	1 11/16-12	M42X2	20M42V87OMLO
38	2-12	M48X2	24M48V87OMLO

Swivel Nut Elbow

C6MLO

ORFS Swivel / ORFS Tube End

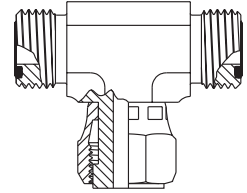


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4C6MLO
10	11/16-16	6C6MLO
12	13/16-16	8C6MLO
16	1-14	10C6MLO
20	1 3/16-12	12C6MLO
25	1 7/16-12	16C6MLO
30	1 11/16-12	20C6MLO
38	2-12	24C6MLO

Swivel Nut Branch Tee

S6MLO

ORFS Swivel / ORFS Tube Ends

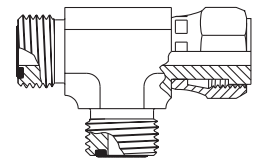


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4S6MLO
10	11/16-16	6S6MLO
12	13/16-16	8S6MLO
16	1-14	10S6MLO
20	1 3/16-12	12S6MLO
25	1 7/16 - 12	16S6MLO
30	1 11/16-12	20S6MLO
38	2-12	24S6MLO

Swivel Nut Run Tee

R6MLO

ORFS Swivel / ORFS Tube Ends

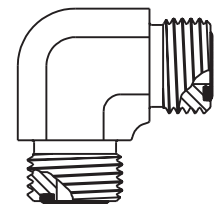


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4R6MLO
10	11/16-16	6R6MLO
12	13/16-16	8R6MLO
16	1-14	10R6MLO
20	1 3/16-12	12R6MLO
25	1 7/16-12	16R6MLO
30	1 11/16-12	20R6MLO
38	2-12	24R6MLO

90° Union Elbow

EMLO

90° ORFS Tube Ends (Both Ends)

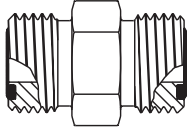


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4EMLO
10	11/16-16	6EMLO
12	13/16-16	8EMLO
16	1-14	10EMLO
20	1 3/16-12	12EMLO
25	1 7/16-12	16EMLO
30	1 11/16-12 UN	20EMLO
38	2-12 UN	24EMLO

Union Straight

HMLO

ORFS Tube Ends (Both Ends)

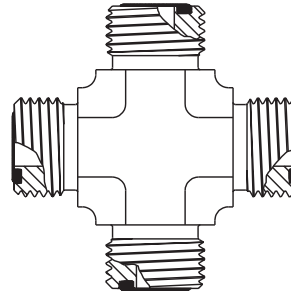


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4HMLO
10	11/16-16	6HMLO
12	13/16-16	8HMLO
16	1-14	10HMLO
20	1 3/16	12HMLO
25	1 7/16-12	16HMLO
30	1 11/16-12	20HMLO
38	2-12	24HMLO

Union Cross

KMLO

ORFS Tube Ends (All Four Ends)

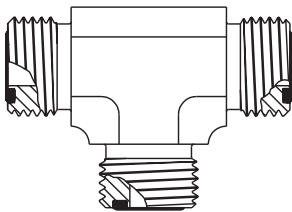


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4KMLO
10	11/16-16	6KMLO
12	13/16-16	8KMLO
16	1-14	10KMLO
20	1 3/16-12	12KMLO
25	1 7/16-12	16KMLO
30	1 11/16-12	20KMLO
38	2-12	24KMLO

Union Tee

JMLO

ORFS Tube Ends (All Three Ends)

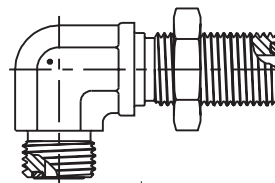


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4JMLO
10	11/16-16	6JMLO
12	13/16-16	8JMLO
16	1-14	10JMLO
20	1 3/16-12	12JMLO
25	1 7/16-12	16JMLO
30	1 11/16-12	20JMLO
38	2-12	24JMLO

Bulkhead Union Elbow

WEMLO

ORFS Tube End / ORFS Bulkhead Tube End

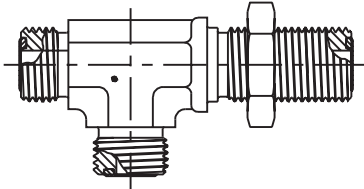


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fittings Part #
6 & 8	9/16-18	4WEMLO
10	11/16-16	6WEMLO
12	13/16-16	8WEMLO
16	1-14	10WEMLO
20	1 3/16-12	12WEMLO
25	1 7/16-12	16WEMLO
30	1 11/16-12	20WEMLO
38	2-12	24WEMLO

Bulkhead Run Tee

WJJMLO

ORFS Tube End / ORFS Bulkhead Tube End

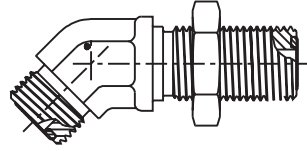


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fittings Part #
6 & 8	9/16-18	4WJJMLO
10	11/16-16	6WJJMLO
12	13/16-16	8WJJMLO
16	1-14	10WJJMLO
20	1 3/16-12	12WJJMLO
25	1 7/16-12	16WJJMLO
30	1 11/16-12	20WJJMLO
38	2-12	24WJJMLO

45° Bulkhead Union Elbow

WNMLO

ORFS Tube End / ORFS Bulkhead Tube End

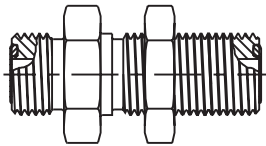


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fittings Part #
6 & 8	9/16-18	4WNMLO
10	11/16-16	6WNMLO
12	13/16-16	8WNMLO
16	1-14	10WNMLO
20	1 3/16-12	12WNMLO
25	1 7/16-12	16WNMLO
30	1 11/16-12	20WNMLO
38	2-12	24WNMLO

Bulkhead Union

WMLO

ORFS Tube End / ORFS Bulkhead Tube End

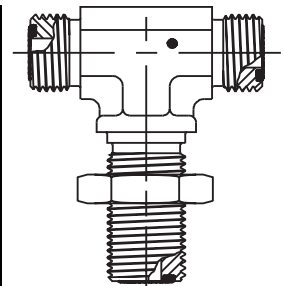


Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fittings Part #
6 & 8	9/16-18	4WMLO
10	11/16-16	6WMLO
12	13/16-16	8WMLO
16	1-14	10WMLO
20	1 3/16-12	12WMLO
25	1 7/16-12	16WMLO
30	1 11/16-12	20WMLO
38	2-14	24WMLO

Bulkhead Branch Tee

WJMLO

ORFS Tube End / ORFS Bulkhead Tube End



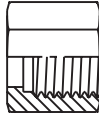
Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fittings Part #
6 & 8	9/16-18	4WJMLO
10	11/16-16	6WJMLO
12	13/16-16	8WJMLO
16	1-14	10WJMLO
20	1 3/16-12	12WJMLO
25	1 7/16-12	16WJMLO
30	1 11/16-12	20WJMLO
38	2-12	24WJMLO

Tube Nut

BML

ORFS Tube End Nut

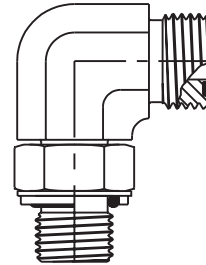
Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4BML
10	11/16-16	6BML
12	13/16-16	8BML
16	1-14	10BML
20	1 3/16-12	12BML
25	17/16-12	16BML
30	1 11/16-12	20BML
38	2-12	24BML



90° Male BSPP Elbow

C4OMLO

ORFS Tube End / Male BSPP Port End



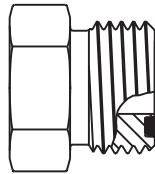
Tube O.D. (mm)	T Tube End UN/UNF-2A	T4 Port Thread BSPP	Tube Fitting Part #
6	9/16-18	1/8 - 28	4C4OMLO
6	9/16-18	1/4 - 19	4-4C4OMLO
6	9/16-18	3/8 - 19	4-6C4OMLO
8,10	11/16-16	1/4 - 19	6C4OMLO
8,10	11/16-16	3/8 - 19	6-6C4OMLO
12	13/16-16	1/4-19	8-4C4OMLO
12	13/16-16	3/8 - 19	8C4OMLO
12	13/16-16	1/2 -14	8-8C4OMLO
12	13/16-16	3/4 -14	8-12C4OMLO
14,15,16	1-14	3/8 - 19	10-6C4OMLO
14,15,16	1-14	1/2 - 14	10C4OMLO
14,15,16	1-14	3/4 - 14	10-12C4OMLO
14,15,16	1-14	1 - 11	10-16C4OMLO
18,20	1 3/16 -12	1/2 -14	12-8C4OMLO
18,20	1 3/16 -12	3/4 - 14	12C4OMLO
18,20	1 3/16 -12	1 - 11	12-16C4OMLO
22,25	1 7/16-12	3/4 - 14	16-12C4OMLO
22,25	1 7/16-12	1 -11	16C4OMLO
22,25	1 7/16-12	1 1/4 - 11	16-20C4OMLO
28,30,32	1 11/16-12	1 - 11	20-16C4OMLO
28,30,32	1 11/16-12	1 1/4 - 11	20C4OMLO
28,30,32	1 11/16-12	1 1/2 - 11	20-24C4OMLO
38	2-12	1 1/2 - 11	24C4OMLO

Plug

PNMLO

ORFS Tube End Plug

Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4PNMLO
10	11/16-16	6PNMLO
12	13/16- 16	8PNMLO
16	1-14	10PNMLO
20	1 3/16-12	12PNMLO
25	1 7/16-12	16PNMLO
30	1 11/16-12	20PNMLO
38	2-12	24PNMLO

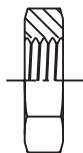


Bulkhead Locknut

WLNML

Bulkhead Fitting Locknut

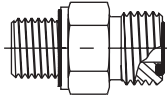
Tube O.D. (mm)	D Tube End UN/UNF-2A	Tube Fitting Part #
6 & 8	9/16-18	4WLNML
10	11/16-16	6WLNML
12	13/16-16	8WLNML
16	1-14	10WLNML
20	1 3/16-12	12WLNML
25	1 7/16-12	16WLNML
30	1 11/16-12	20WLNML
38	2-12	24WLNML



Male BSPP Connector

F42EDMLO

ORFS Tube End / Male BSPP Pipe End With EOlastic Seal

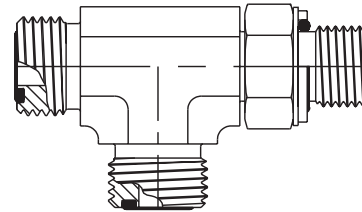


Tube O.D. (mm)	T Tube End UN/UNF-2A	T42 Port Thread BSPP	Tube Fitting Part #
6	9/16-18	1/8 - 28	4F42EDMLO
6	9/16-18	1/4 - 19	4-4F42EDMLO
6	9/16-18	3/8 - 19	4-6F42EDMLO
6	9/16-18	1/2 - 14	4-8F42EDMLO
8,10	11/16-16	1/8 - 28	6-2F42EDMLO
8,10	11/16-16	1/4 - 19	6F42EDMLO
8,10	11/16-16	3/8 - 19	6-6F42EDMLO
8,10	11/16-16	1/2 - 14	6-8F42EDMLO
8,10	11/16-16	3/4 - 14	6-12F42EDMLO
12	13/16-16	1/4 - 19	8-4F42EDMLO
12	13/16-16	3/8 - 19	8F42EDMLO
12	13/16-16	1/2 - 14	8-8F42EDMLO
12	13/16-16	3/4 - 14	8-12F42EDMLO
14,15,16	1-14	3/8 - 19	10-6F42EDMLO
14,15,16	1-14	1/2 - 14	10F42EDMLO
14,15,16	1-14	3/4 - 14	10-12F42EDMLO
14,15,16	1-14	1 - 11	10-16F42EDMLO
18,20	1 3/16-12	1/2 - 14	12-8F42EDMLO
18,20	1 3/16-12	3/4 - 14	12F42EDMLO
18,20	1 3/16-12	1 - 11	12-16F42EDMLO
18,19,20	1 3/16-12	1 1/4 - 11	12-20F42EDMLO
22,25	1 7/16-12	3/4 - 14	16-12F42EDMLO
22,25	1 7/16-12	1 - 11	16F42EDMLO
22,25	1 7/16-12	1 1/4 - 11	16-20F42EDMLO
22,25	1 7/16-12	1 1/2 - 11	16-24F42EDMLO
28,30,32	1 11/16-12	1 - 11	20-16F42EDMLO
28,30,32	1 11/16-12	1 1/4 - 11	20F42EDMLO
28,30,32	1 11/16-12	1 1/2 - 11	20-24F42EDMLO
38	2-12	1 1/2 - 11	24F42EDMLO

BSPP Run Tee

R40MLO

ORFS Tube Ends / Male BSPP Port End

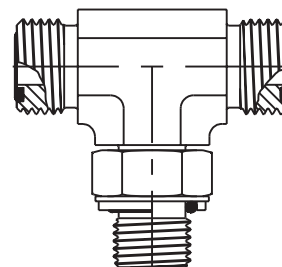


Tube O.D. (mm)	T Tube End UN/UNF-2A	TA Port Thread BSPP	Tube Fitting Part #
6	9/16-18	1/8 - 28	4R40MLO
6	9/16-18	1/4 - 19	4-4-4R40MLO
8,10	11/16-16	1/4 - 19	6R40MLO
8,10	11/16-16	3/8 - 19	6-6-6R40MLO
12	13/16-16	3/8 - 19	8R40MLO
12	13/16-16	1/2 - 14	8-8-8R40MLO
14,15,16	1-14	1/2 - 14	10R40MLO
14,15,16	1-14	3/4 - 14	10-12-10R40MLO
18,20	1 3/16-12	3/4 - 14	12R40MLO
18,20	1 3/16-12	1 - 11	12-16-12R40MLO
22,25	1 7/16-12	1 - 11	16R40MLO

BSPP Branch Tee

S40MLO

ORFS Tube Ends / Male BSPP Port End

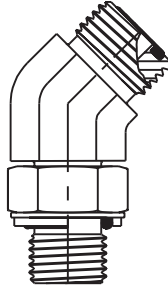


Tube O.D. (mm)	T Tube End UN/UNF-2A	TA Port Thread BSPP	Tube Fitting Part #
6	9/16 -18	1/8 - 28	4S40MLO
6	9/16 -18	1/4 - 19	4-4-4S40MLO
8,10	11/16 - 16	1/4 - 19	6S40MLO
8,10	11/16 - 16	3/8 - 19	6-6-6S40MLO
12	13/16 - 16	3/8 - 19	8S40MLO
12	13/16 - 16	1/2 - 14	8-8-8S40MLO
14,15,16	1 - 14	1/2 - 14	10S40MLO
14,15,16	1 - 14	3/4 - 14	10-10-12S40MLO
18,20	1 3/16-12	3/4 -14	12S40MLO

45° Male BSPP Elbow

V40MLO

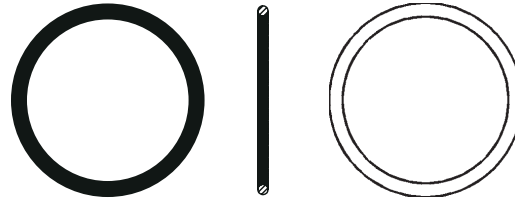
ORFS Tube Ends / Male BSPP Port End



Tube O.D. (mm)	T Tube End UN/UNF-2A	T4 Port Thread BSPP	Tube Fitting Part #
6	9/16-18	1/8 - 28	4V40MLOS
6	9/16-18	1/4 - 19	4-4V40MLOS
8,10	11/16-16	1/4 - 19	6V40MLOS
8,10	11/16-16	3/8 - 19	6-6V40MLOS
8,10	11/16-16	1/2 - 14	6-8V40MLOS
12	13/16-16	3/8 - 19	8V40MLOS
14,15,16	1-14	1/2 - 14	10V40MLOS
14,15,16	1-14	3/4 - 14	10-12V40MLOS
18,20	1 3/16-12	3/4 - 14	12V40MLOS
18,20	1 3/16-12	1 - 11	12-16V40MLOS
22,25	1 7/16-12	1 - 11	16V40MLOS

BSPP

O-Ring & Retaining Ring



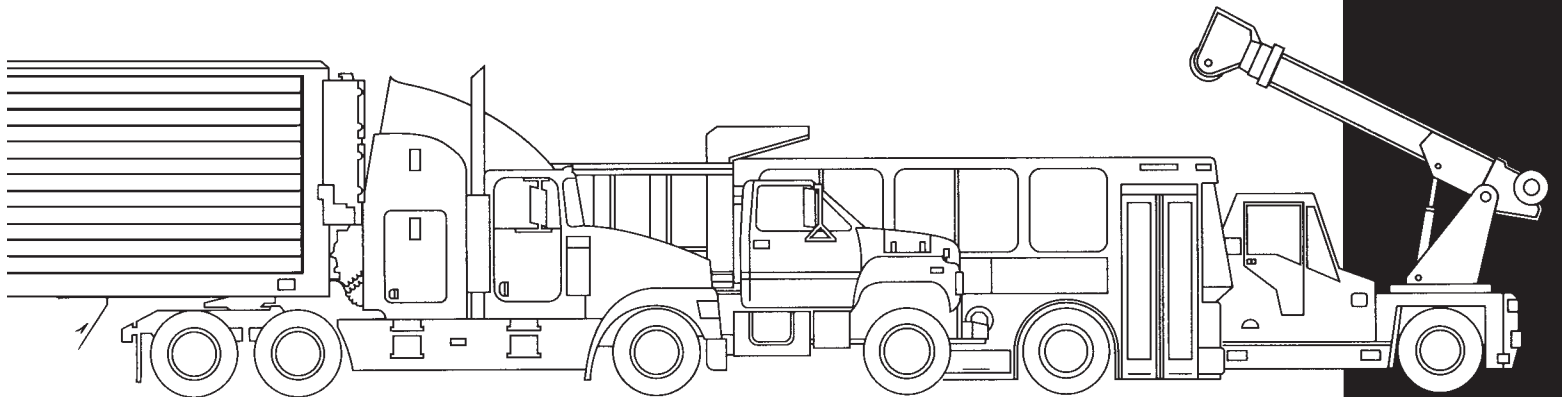
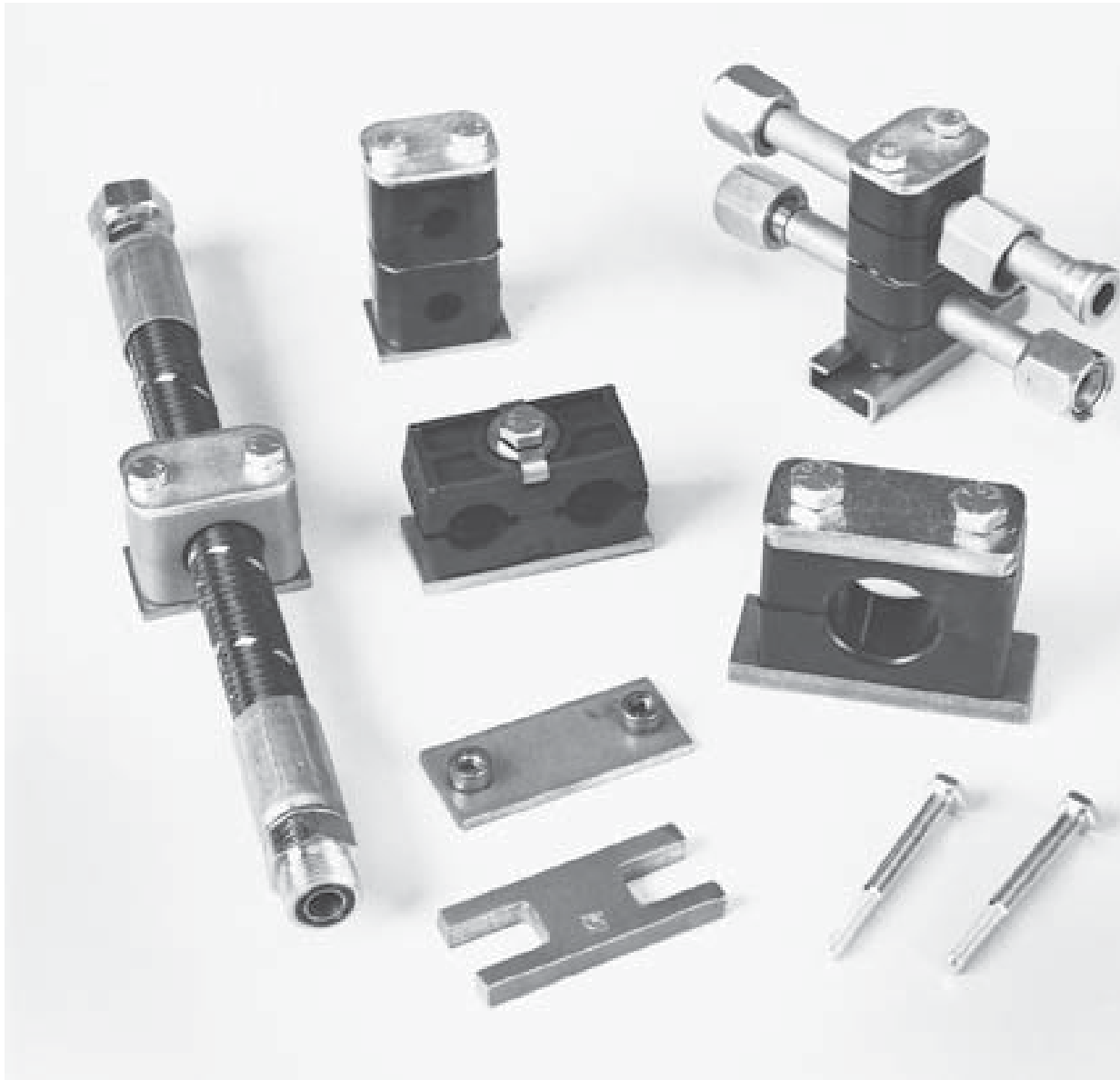
BSPP Thread Size	I.D.	Retaining Ring Part #	O-ring Part #
1/8-28	7.97	1/8 Retaining Ring	5-585
1/4-19	10.77	1/4 Retaining Ring	2-111
3/8-19	13.94	3/8 Retaining Ring	2-113
1/2-14	17.96	1/2 Retaining Ring	5-256
3/4-14	23.47	3/4 Retaining Ring	2-119
1-11	29.74	1 Retaining Ring	2-217
1 1/4-11	37.69	1 1/4 Retaining Ring	2-222
1 1/2-11	44.04	1 1/2 Retaining Ring	2-224
2-11	63.80	2 Retaining Ring	2-228

EOlastic Soft Seal for BSPP & Metric Threads

ED

For Male Metric Thread	For Male Thread BSPP	Tube Fitting Part #
M8 x 1		ED8X1X
M10 x 1	G 1/8 A	ED10X1X
M12 x 1.5		ED12X1.5X
M14 x 1.5	G 1/4 A	ED14X1.5X
M16 x 1.5		ED16X1.5X
	G 3/8 A	ED3/8X
M18 x 1.5		ED18X1.5X
M20 x 1.5		ED20X1.5X
	G 1/2 A	ED1/2X
M22 x 1.5		ED22X1.5X
M26 x 1.5	G 3/4 A	ED26X1.5X
M27 x 2	G 3/4 A	ED26X1.5X
M33 x 2	G 1 A	ED33X2X
M42 x 2	G 1 1/4 A	ED42X2X
M48 x 2	G 1 1/2 A	ED48X2X




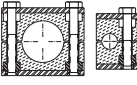



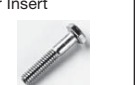


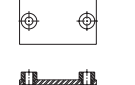
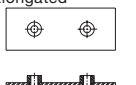
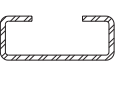
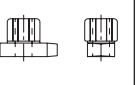

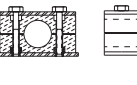




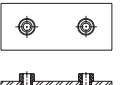
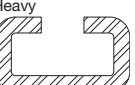
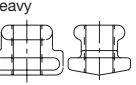

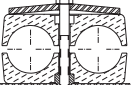




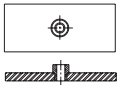
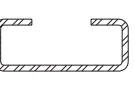
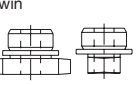






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ParKlamp Inch Tube Clamps

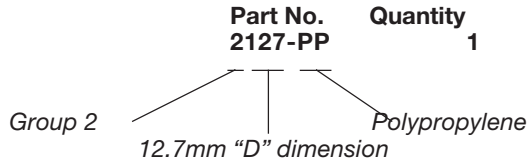
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<p>SBH Stacking Bolt Heavy</p>  <p>Page F16</p>	<p>WPH Weld Plate Heavy</p>  <p>Page F17</p>	<p>RH Mounting Rail Heavy</p>  <p>Page F17</p>	<p>RNH Mounting Rail Nut Heavy</p>  <p>Page F17</p>				
<p>Twin Series</p> 	<p>Clamp Halves</p>  <p>Page F19</p>	<p>CPT Cover Plate</p>  <p>Page F20</p>	<p>BCPT Hexagon Head Bolt for Cover Plate</p>  <p>Page F20</p>	<p>LPT Locking Plate</p>  <p>Page F20</p>			
<p>SBT Stacking Bolt</p>  <p>Page F20</p>	<p>WPT Weld Plate Twin</p>  <p>Page F21</p>	<p>R Mounting Rail</p>  <p>Pages F13 and F21</p>	<p>RNT Mounting Rail Nut Twin</p>  <p>Page F21</p>				
<p>Tube Clips</p> 	<p>Tube Clip</p>  <p>Page F24</p>	<p>Tube Clip</p>  <p>Page F24</p>	<p>Tube Clip</p>  <p>Page F24</p>				

How to Order ParKlamp

All components must be ordered separately.

Step 1. Choose polypropylene (PP) clamp halves according to tube O.D. (or pipe size or hose size).



Step 2. Note the group number that corresponds to the clamp part number and order all other components in this group.

Group 2

Step 3. Now begin at the top of the clamp assembly and work downward. Order the cover plate.

Part No.	Quantity
CP-2	1

Step 4. Next choose the bolts (two required).

Part No.	Quantity
BCP-2	2

Step 5. If stacking clamps, choose locking plate and stacking bolts.

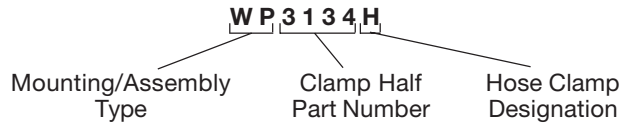
Part No.	Quantity
LP-2	1
SB-2	2

Step 6. Finally select mounting option. There are several choices. A standard or long weld plate **OR** a mounting rail (in two lengths) and rail nuts.

Part No.	Quantity
WP-2	1
or	
WPE-2	1
OR	
R-1	1
or	
R-2	1
HRN	2

ParKlamp Kits

Kit Part Numbers



Kit Contents

Kit Type

Weld Plate (WP) (1) Weld Plate
 (1) Clamp Set – two identical halves
 (1) Cover Plate
 (2) Hex Head Bolts for Cover Plate

Mounting Rail (RN) (2) Mounting Rail Nuts
 (1) Clamp Set - two identical halves
 (1) Cover Plate
 (2) Hex Head Bolts for Cover Plate

Stacked Assembly (SA)
 (1) Locking Plate
 (2) Stacking Bolts
 (1) Clamp Set - two identical halves

Note: WPH, RNH and SAH have same contents as above for Heavy Series.
 WPT, RNT and SAT have same contents as above for Twin Series.
 WPE has same contents as WP, with elongated weld plate.

How to Order ParKlamp Kits

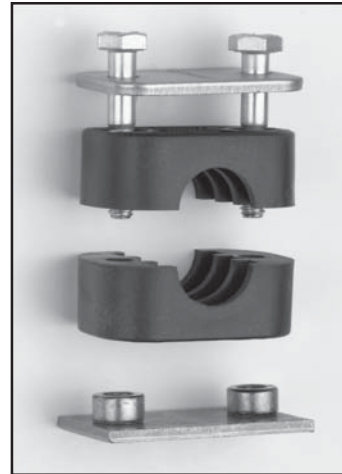
Step 1. Choose one of the following mounting or assembly types: Weld Plate, Mounting Rail or Stacked Assembly.

Kit Type	Part Number	Options:
Weld Plate	WP_____	WP, WPH, WPE, WPT
Mounting Rail	RN_____	RN, RNH, RNT
Stacked Assembly	SA_____	SA, SAH, SAT

Step 2. Choose the clamp halves according to the tube O.D., pipe or hose size.

Kit Type	Part Number
Weld Plate	WP1064*
Mounting Rail	RN1064*
Stacked Assembly	SA1064*

*Add "H" to the end of the clamp number for hose sizes.



Weld Plate Kit



Mounting Rail Kit



Stacked Assembly Kit

ParKlamp Kits

	Kit Number	Bill of Material							
		Part	Qty	Part	Qty	Part	Qty	Part	Qty
Rail Nut	RN1064	HRN	2	1064-PP	1	CP-1	1	BCP-1	2
	RN1064A	HRN	2	1064A-PP	1	CP-1A	1	BCP-1A	2
	RN1095	HRN	2	1095-PP	1	CP-1	1	BCP-1	2
	RN1095A	HRN	2	1095A-PP	1	CP-1A	1	BCP-1A	2
	RN2127	HRN	2	2127-PP	1	CP-2	1	BCP-2	2
	RN2160	HRN	2	2160-PP	1	CP-2	1	BCP-2	2
	RN3134H	HRN	2	CP-3	1	H3134PP	1	BCP-3	2
	RN3174H	HRN	2	H3174PP	1	CP-3	1	BCP-3	2
	RN3190	HRN	2	3190-PP	1	BCP-3	2	CP-3	1
	RN3205H	HRN	2	H3205PP	1	CP-3	1	BCP-3	2
	RN3213	HRN	2	3213-PP	1	CP-3	1	BCP-3	2
	RN3239H	HRN	2	H3239PP	1	CP-3	1	BCP-3	2
	RN3254	HRN	2	3254-PP	1	CP-3	1	BCP-3	2
	RN4266	HRN	2	4266-PP	1	CP-4	1	BCP-4	2
	RN5278H	HRN	2	H5278PP	1	CP-5	1	BCP-5	2
	RN5320	HRN	2	5320-PP	1	CP-5	1	BCP-5	2
	RN5334	HRN	2	5334-PP	1	CP-5	1	BCP-5	2
	RN5357H	HRN	2	H5357PP	1	CP-5	1	BCP-5	2
	RN5381	HRN	2	5381-PP	1	CP-5	1	BCP-5	2
	RN5438H	HRN	2	H5438PP	1	CP-5	1	BCP-5	2
RN6483	HRN	2	6483-PP	1	CP-6	1	BCP-6	2	
RN6498H	HRN	2	H6498PP	1	CP-6	1	BCP-6	2	
RN6508	HRN	2	6508-PP	1	CP-6	1	BCP-6	2	
Rail Nut Heavy	RNH3095	RNH-10	2	3095-HPP	1	CPH-3	1	BCPH-3	2
	RNH3127	RNH-10	2	3127-HPP	1	CPH-3	1	BCPH-3	2
	RNH3160	RNH-10	2	3160-HPP	1	CPH-3	1	BCPH-3	2
	RNH4150H	RNH-10	2	H4150HPP	1	CPH-4	1	BCPH-4	2
	RNH4190	RNH-10	2	4190-HPP	1	CPH-4	1	BCPH-4	2
	RNH4198H	RNH-10	2	H4198HPP	1	CPH-4	1	BCPH-4	2
	RNH4213	RNH-10	2	4213-HPP	1	CPH-4	1	BCPH-4	2
	RNH4221H	RNH-10	2	H4221HPP	1	CPH-4	1	BCPH-4	2
	RNH4254	RNH-10	2	4254-HPP	1	CPH-4	1	BCPH-4	2
	RNH4267	RNH-10	2	4267-HPP	1	CPH-4	1	BCPH-4	2
	RNH4292H	RNH-10	2	H4292HPP	1	CPH-4	1	BCPH-4	2
	RNH5320	RNH-10	2	5320-HPP	1	CPH-5	1	BCPH-5	2
	RNH5334	RNH-10	2	5334-HPP	1	CPH-5	1	BCPH-5	2
	RNH5381	RNH-10	2	5381-HPP	1	CPH-5	1	BCPH-5	2
	RNH5422	RNH-10	2	5422-HPP	1	CPH-5	1	BCPH-5	2
	RNH6378H	RNH-12	2	H6378HPP	1	CPH-6	1	BCPH-6	2
	RNH6483	RNH-12	2	6483-HPP	1	CPH-6	1	BCPH-6	2
	RNH6484H	RNH-12	2	H6484HPP	1	CPH-6	1	BCPH-6	2
RNH6508	RNH-12	2	6508-HPP	1	CPH-6	1	BCPH-6	2	
RNH6544H	RNH-12	2	H6544HPP	1	CPH-6	1	BCPH-6	2	
RNH6603	RNH-12	2	6603-HPP	1	CPH-6	1	BCPH-6	2	
Rail Nut Twin	RNT1064	RNT-1	1	1064/64-PP	1	CPT-1	1	BCPT-1	1
	RNT1095	RNT-1	1	1095/95-PP	1	CPT-1	1	BCPT-1	1
	RNT2127	RNT-2-5	1	2127/127-PP	1	CPT-2	1	BCPT-2	1
	RNT2160	RNT-2-5	1	2160/160-PP	1	CPT-2	1	BCPT-2	1
	RNT3190	RNT-2-5	1	3190/190-PP	1	CPT-3	1	BCPT-3	1
	RNT3254	RNT-2-5	1	3254/254-PP	1	CPT-3	1	BCPT-3	1
	RNT4266	RNT-2-5	1	4266/266-PP	1	CPT-4	1	BCPT-4	1
	RNT5320	RNT-2-5	1	5320/320-PP	1	CPT-5	1	BCPT-5	1
RNT5381	RNT-2-5	1	5381/381-PP	1	CPT-5	1	BCPT-5	1	

ParKlamp Kits (continued)

	Kit Number	Bill of Material							
		Part	Qty	Part	Qty	Part	Qty	Part	Qty
Stacking Assembly Heavy	SA1064	1064-PP	1	LP-1	1	SB-1	2		
	SA1064A	1064A-PP	1	LP-1A	1	SB-1A	2		
	SA1095	1095-PP	1	LP-1	1	SB-1	2		
	SA1095A	1095A-PP	1	LP-1A	1	SB-1A	2		
	SA2127	2127-PP	1	LP-2	1	SB-2	2		
	SA2160	2160-PP	1	LP-2	1	SB-2	2		
	SA3134H	H3134PP	1	LP-3	1	SB-3	2		
	SA3174H	H3174PP	1	LP-3	1	SB-3	2		
	SA3190	3190-PP	1	LP-3	1	SB-3	2		
	SA3205H	H3205PP	1	LP-3	1	SB-3	2		
	SA3213	3213-PP	1	LP-3	1	SB-3	2		
	SA3239H	H3239PP	1	LP-3	1	SB-3	2		
	SA3254	3254-PP	1	LP-3	1	SB-3	2		
	SA4266	4266-PP	1	LP-4	1	SB-4	2		
	SA5278H	H5278PP	1	LP-5	1	SB-5	2		
	SA5320	5320-PP	1	LP-5	1	SB-5	2		
	SA5334	5334-PP	1	LP-5	1	SB-5	2		
	SA5357H	H5357PP	1	LP-5	1	SB-5	2		
	SA5381	5381-PP	1	LP-5	1	SB-5	2		
	SA5438H	H5438PP	1	LP-5	1	SB-5	2		
SA6483	6483-PP	1	LP-6	1	SB-6	2			
SA6498H	H6498PP	1	LP-6	1	SB-6	2			
SA6508	6508-PP	1	LP-6	1	SB-6	2			
Stacking Assembly Heavy	SAH3095	3095-HPP	1	LPH-3	1	SBH-3	2		
	SAH3127	3127-HPP	1	LPH-3	1	SBH-3	2		
	SAH3160	3160-HPP	1	LPH-3	1	SBH-3	2		
	SAH4150H	H4150HPP	1	LPH-4	1	SBH-4	2		
	SAH4190	4190-HPP	1	LPH-4	1	SBH-4	2		
	SAH4198H	H4198HPP	1	LPH-4	1	SBH-4	2		
	SAH4213	4213-HPP	1	LPH-4	1	SBH-4	2		
	SAH4221H	H4221HPP	1	LPH-4	1	SBH-4	2		
	SAH4251H	H4251HPP	1	LPH-4	1	SBH-4	2		
	SAH4254	4254-HPP	1	LPH-4	1	SBH-4	2		
	SAH4267	4267-HPP	1	LPH-4	1	SBH-4	2		
	SAH4292H	H4292HPP	1	LPH-4	1	SBH-4	2		
	SAH5320	5320-HPP	1	LPH-5	1	SBH-5	2		
	SAH5334	5334-HPP	1	LPH-5	1	SBH-5	2		
	SAH5381	5381-HPP	1	LPH-5	1	SBH-5	2		
	SAH5422	5422-HPP	1	LPH-5	1	SBH-5	2		
	SAH6483	6483-HPP	1	LPH-6	1	SBH-6	2		
	SAH6484H	H6484HPP	1	LPH-6	1	SBH-6	2		
SAH6508	6508-HPP	1	LPH-6	1	SBH-6	2			
SAH6544H	H6544HPP	1	LPH-6	1	SBH-6	2			
SAH6603	6603-HPP	1	LPH-6	1	SBH-6	2			
Stacking Assembly Twin	SAT1064	1064/64-PP	1	LPT-1	1	SBT-1	2		
	SAT2160	2160/160-PP	1	LPT-2	1	SBT-2	2		
	SAT3190	3190/190-PP	1	SBT-3	2	LPT-3	1		
	SAT3254	3254/254-PP	1	LPT-3	1	SBT-3	2		
	SAT4266	4266/266-PP	1	LPT-4	1	SBT-4	2		
	SAT5320	5320/320-PP	1	LPT-5	1	SBT-5	2		
	SAT5334	5334/334-PP	1	LPT-5	1	SBT-5	2		
SAT5381	5381/381-PP	1	LPT-5	1	SBT-5	2			

ParKlamp Kits (continued)

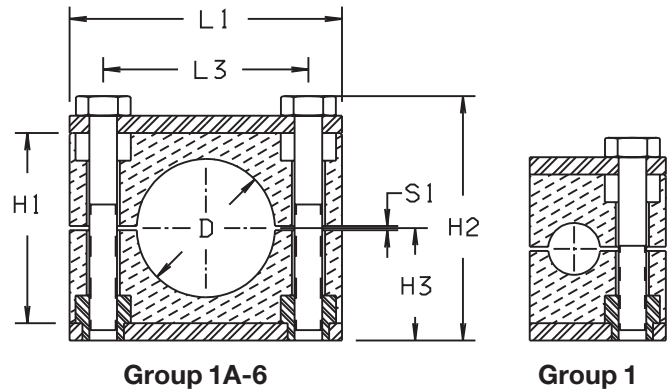
	Kit Number	Bill of Material							
		Part	Qty	Part	Qty	Part	Qty	Part	Qty
Weld Plate	WP1064	WP-1	1	1064-PP	1	CP-1	1	BCP-1	2
	WP1064A	WP-1A	1	1064A-PP	1	CP-1A	1	BCP-1A	2
	WP1095	WP-1	1	1095-PP	1	CP-1	1	BCP-1	1
	WP1095A	WP-1A	1	1095A-PP	1	CP-1A	1	BCP-1A	2
	WP2127	WP-2	1	2127-PP	1	CP-2	1	BCP-2	2
	WP2160	WP-2	1	2160-PP	1	CP-2	1	BCP-2	2
	WP3134H	WP-3	1	H3134PP	1	CP-3	1	BCP-3	2
	WP3174H	WP-3	1	H3174PP	1	CP-3	1	BCP-3	2
	WP3190	WP-3	1	3190-PP	1	CP-3	1	BCP-3	2
	WP3205H	WP-3	1	H3205PP	1	CP-3	1	BCP-3	2
	WP3213	WP-3	1	3213-PP	1	CP-3	1	BCP-3	2
	WP3254	WP-3	1	3254-PP	1	CP-3	1	BCP-3	2
	WP4266	WP-4	1	4266-PP	1	CP-4	1	BCP-4	2
	WP5278H	WP-5	1	H5278PP	1	CP-5	1	BCP-5	2
	WP5320	WP-5	1	5320-PP	1	CP-5	1	BCP-5	2
	WP5334	WP-5	1	5334-PP	1	CP-5	1	BCP-5	2
	WP5357H	WP-5	1	H5357PP	1	CP-5	1	BCP-5	2
	WP5381	WP-5	1	5381-PP	1	CP-5	1	BCP-5	2
	WP5438H	WP-5	1	H5438PP	1	CP-5	1	BCP-5	2
	WP6483	WP-6	1	6483-PP	1	CP-6	1	BCP-6	2
WP6498H	WP-6	1	H6498PP	1	CP-6	1	BCP-6	2	
WP6508	WP-6	1	6508-PP	1	CP-6	1	BCP-6	2	
Weld Plate Elongated	WPE1064	WPE-1	1	1064-PP	1	CP-1	1	BCP-1	2
	WPE1064A	WPE-1A	1	1064A-PP	1	CP-1A	1	BCP-1A	2
	WPE1095	WPE-1	1	1095-PP	1	CP-1	1	BCP-1	2
	WPE1095A	WPE-1A	1	1095A-PP	1	CP-1A	1	BCP-1A	2
	WPE2127	WPE-2	1	2127-PP	1	CP-2	1	BCP-2	2
	WPE2160	WPE-2	1	2160-PP	1	CP-2	1	BCP-2	2
	WPE3134H	WPE-3	1	H3134PP	1	CP-3	1	BCP-3	2
	WPE3174H	WPE-3	1	H3174PP	1	CP-3	1	BCP-3	2
	WPE3190	WPE-3	1	3190-PP	1	CP-3	1	BCP-3	2
	WPE3205H	WPE-3	1	H3205PP	1	CP-3	1	BCP-3	2
	WPE3213	WPE-3	1	3213-PP	1	CP-3	1	BCP-3	2
	WPE3239H	WPE-3	1	H3239PP	1	CP-3	1	BCP-3	2
	WPE3254	WPE-3	1	3254-PP	1	CP-3	1	BCP-3	2
	WPE4266	WPE-4	1	4266-PP	1	CP-4	1	BCP-4	2
	WPE5278H	WPE-5	1	H5278PP	1	CP-5	1	BCP-5	2
	WPE5320	WPE-5	1	5320-PP	1	CP-5	1	BCP-5	2
	WPE5334	WPE-5	1	5334-PP	1	CP-5	1	BCP-5	2
	WPE5357H	WPE-5	1	H5357PP	1	CP-5	1	BCP-5	2
	WPE5381	WPE-5	1	5381-PP	1	CP-5	1	BCP-5	2
	WPE5438H	WPE-5	1	H5438PP	1	CP-5	1	BCP-5	2
WPE6483	WPE-6	1	6483-PP	1	CP-6	1	BCP-6	2	
WPE6498H	WPE-6	1	H6498PP	1	CP-6	1	BCP-6	2	
WPE6508	WPE-3	1	3213-PP	1	CP-3	1	BCP-6	2	

ParKlamp Kits (continued)

	Kit Number	Bill of Material							
		Part	Qty	Part	Qty	Part	Qty	Part	Qty
Weld Plate Heavy	WPH3095	WPH-3	1	3095-HPP	1	CPH-3	1	BCPH-3	2
	WPH3127	WPH-3	1	3127-HPP	1	CPH-3	1	BCPH-3	2
	WPH3160	WPH-3	1	3160-HPP	1	CPH-3	1	BCPH-3	2
	WPH4150H	WPH-4	1	H4150HPP	1	CPH-4	1	BCPH-4	2
	WPH4190	WPH-4	1	4190-HPP	1	CPH-4	1	BCPH-4	2
	WPH4198H	WPH-4	1	H4198HPP	1	CPH-4	1	BCPH-4	2
	WPH4213	WPH-4	1	BCPH-4 BP	2	CPH-4	1	4213-HPP	1
	WPH4221H	WPH-4	1	H4221HPP	1	CPH-4	1	BCPH-4	2
	WPH4251H	WPH-4	1	H4251HPP	1	CPH-4	1	BCPH-4	2
	WPH4254	WPH-4	1	4254-HPP	1	CPH-4	1	BCPH-4	2
	WPH4267	WPH-4	1	4267-HPP	1	CPH-4	1	BCPH-4	2
	WPH4292H	WPH-4	1	H4292HPP	1	CPH-4	1	BCPH-4	2
	WPH5320	WPH-5	1	5320-HPP	1	CPH-5	1	BCPH-5	2
	WPH5334	WPH-5	1	5334-HPP	1	CPH-5	1	BCPH-5	2
	WPH5381	WPH-5	1	5381-HPP	1	CPH-5	1	BCPH-5	2
	WPH5422	WPH-5	1	5422-HPP	1	CPH-5	1	BCPH-5	2
	WPH6378H	WPH-6	1	H6378HPP	1	CPH-6	1	BCPH-6	2
	WPH6483	WPH-6	1	6483-HPP	1	CPH-6	1	BCPH-6	2
	WPH6484H	WPH-6	1	H6484HPP	1	CPH-6	1	BCPH-6	2
WPH6508	WPH-6	1	6508-HPP	1	CPH-6	1	BCPH-6	2	
WPH6603	WPH-6	1	BCPH-6	2	CPH-6	1	6603-HPP	1	
Weld Plate Twin	WPT1064	WPT-1	1	1064/64-PP	1	CPT-1	1	BCPT-1	1
	WPT1095	WPT-1	1	1095/95-PP	1	CPT-1	1	BCPT-1	1
	WPT2127	WPT-2	1	2127/127-PP	1	CPT-2	1	BCPT-2	1
	WPT2160	WPT-2	1	2160/160-PP	1	CPT-2	1	BCPT-2	1
	WPT3190	WPT-3	1	3190/190-PP	1	CPT-3	1	BCPT-3	1
	WPT3254	WPT-3	1	3254/254-PP	1	CPT-3	1	BCPT-3	1
	WPT4266	WPT-4	1	4266/266-PP	1	CPT-4	1	BCPT-4	1
	WPT5320	WPT-5	1	5320/320-PP	1	CPT-5	1	BCPT-5	1
	WPT5334	WPT-5	1	5334/334-PP	1	CPT-5	1	BCPT-5	1
WPT5381	WPT-5	1	5381/381-PP	1	CPT-5	1	BCPT-5	1	

Standard Series
Clamp Sizes

Note: One clamp set includes two identical halves of polypropylene. Tube and pipe clamp halves are black in color. Hose clamp halves are green in color.



**Clamps Sold Unassembled;
Order Components Only**

TUBE SIZE	PART #	GROUP #	D		H1 in	H2 in	H3 in	L1 in	L3 in	S1 in
			in	mm						
1/4	1064-PP	1	0.25	6.4	1.06	1.45	0.65	1.11	NA	0.02
3/8	1095-PP	1	0.38	9.5	1.06	1.45	0.65	1.11	NA	0.02
1/4	1064A-PP	1A	0.25	6.4	1.06	1.45	0.65	1.45	0.79	0.02
3/8	1095A-PP	1A	0.38	9.5	1.06	1.45	0.65	1.45	0.79	0.02
1/2	2127-PP	2	0.50	12.7	1.30	1.69	0.77	1.66	1.03	0.02
5/8	2160-PP	2	0.63	16.0	1.30	1.69	0.77	1.66	1.03	0.02
3/4	3190-PP	3	0.75	19.0	1.38	1.77	0.80	1.97	1.30	0.02
1	3254-PP	3	1.00	25.4	1.38	1.77	0.80	1.97	1.30	0.02
1 1/4	5320-PP	5	1.25	32.0	2.33	2.72	1.28	2.75	2.05	0.03
1 1/2	5381-PP	5	1.50	38.1	2.33	2.72	1.28	2.75	2.05	0.03
2	6508-PP	6	2.00	50.8	2.59	3.00	1.42	3.39	2.59	0.03

PIPE SIZE	PART #	GROUP #	D		H1 in	H2 in	H3 in	L1 in	L3 in	S1 in
			in	mm						
1/2	3213-PP	3	0.84	21.3	1.38	1.77	0.80	1.97	1.30	0.02
3/4	4266-PP	4	1.05	26.6	1.69	2.09	0.96	2.28	1.58	0.02
1	5334-PP	5	1.31	33.4	2.33	2.72	1.28	2.75	2.05	0.03
1 1/2	6483-PP	6	1.90	48.3	2.59	3.00	1.42	3.39	2.59	0.03

HOSE SIZE	PART #	GROUP #	D		H1 in	H2 in	H3 in	L1 in	L3 in	S1 in
			in	mm						
1/4	H3134PP	3	0.53	13.4	1.38	1.77	0.80	1.97	1.30	0.02
3/8	H3174PP	3	0.69	17.4	1.38	1.77	0.80	1.97	1.30	0.02
1/2	H3205PP	3	0.81	20.5	1.38	1.77	0.80	1.97	1.30	0.02
5/8	H3239PP	3	0.94	23.9	1.38	1.77	0.80	1.97	1.30	0.02
3/4	H5278PP	5	1.09	27.8	2.33	2.72	1.28	2.75	2.05	0.03
1	H5357PP	5	1.41	35.7	2.33	2.72	1.28	2.75	2.05	0.03
1 1/4	H5438PP	5	1.72	43.8	2.33	2.72	1.28	2.75	2.05	0.03
1 1/2	H6498PP	6	1.96	49.8	2.59	3.00	1.42	3.39	2.59	0.03

FOR USE WITH 100R1 HOSE

Cover Plate

CP

Material: Steel, Zinc Gold Chromate Plated

GROUP	1	1A	2	3	4	5	6
PART NO.	CP-1	CP-1A	CP-2	CP-3	CP-4	CP-5	CP-6

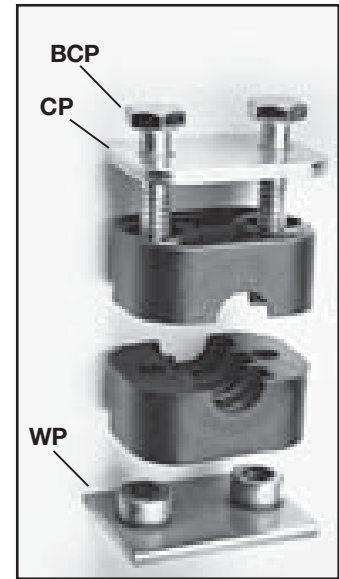
Hexagon Head Bolt for Cover Plate

BCP

(2 Required Group 1A-6)

Note: Bolt Threads are 1/4 - 20 UNC, Zinc Clear Chromate Plated

GROUP	1	1A	2	3	4	5	6
PART NO.	BCP-1	BCP-1A	BCP-2	BCP-3	BCP-4	BCP-5	BCP-6
LENGTH	1 1/4	1 1/4	1 3/8	1 1/2	1 3/4	2 1/2	2 3/4



Insert

IPS

Material: Plastic

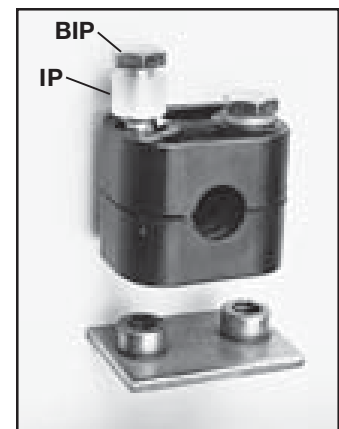
One size fits all groups (2 Required Group 1A-6)
(Use when not using a cover plate)

Hexagon Head Bolt for Insert

BIP

Note: Bolt Threads are 1/4 - 20 UNC, Zinc Clear Chromate Plated

GROUP	1	1A	2	3	4	5	6
PART NO.	BIP-1	BIP-1A	BIP-2	BIP-3	BIP-4	BIP-5	BIP-6
LENGTH	1 1/8	1 1/8	1 3/8	1 3/8	1 5/8	2 3/8	2 3/4



Locking Plate

LP

Material: Steel, Zinc Gold Chromate Plated

GROUP	1	1A	2	3	4	5	6
PART NO.	LP-1	LP-1A	LP-2	LP-3	LP-4	LP-5	LP-6

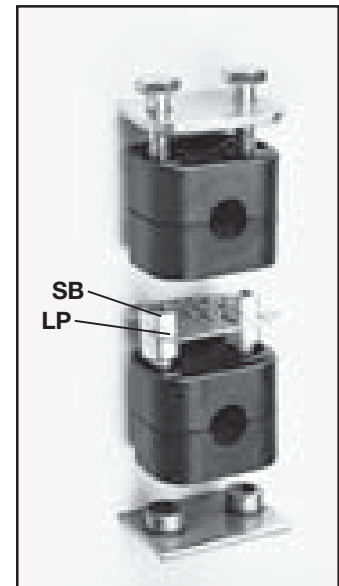
Stacking Bolt

SB

(2 Required Group 1A-6)

Note: Bolt Threads are 1/4 - 20 UNC, Zinc Clear Chromate Plated

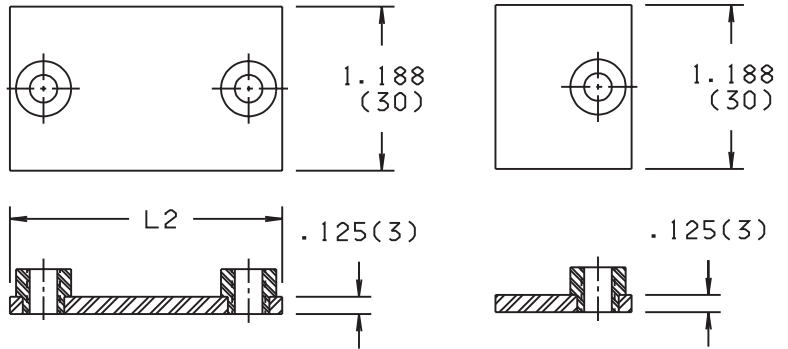
GROUP	1	1A	2	3	4	5	6
PART NO.	SB-1	SB-1A	SB-2	SB-3	SB-4	SB-5	SB-6
LENGTH	3/4	3/4	1	1 1/8	1 3/8	2	2 3/8



Weld Plate

WP

Material: Steel, unplated

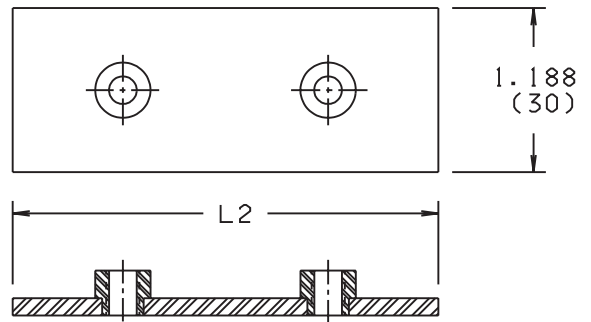


GROUP		1	1A	2	3	4	5	6
PART NO.		WP-1	WP-1A	WP-2	WP-3	WP-4	WP-5	WP-6
Length	inches	1 19/64	1 27/64	1 21/32	1 31/32	2 3/8	2 3/4	3 15/32
	L2	mm	33	36	42	50	60	70

Weld Plate Elongated

WPE

Material: Steel, unplated

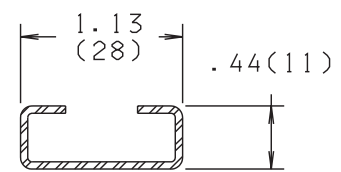


GROUP		1	1A	2	3	4	5	6
PART NO.		WPE-1	WPE-1A	WPE-2	WPE-3	WPE-4	WPE-5	WPE-6
Length	inches	2	2 33/64	2 3/4	3 5/64	3 27/64	3 15/16	4 31/64
	L2	mm	51	64	70	78	87	100

Mounting Rail

R

Material: Steel, unplated

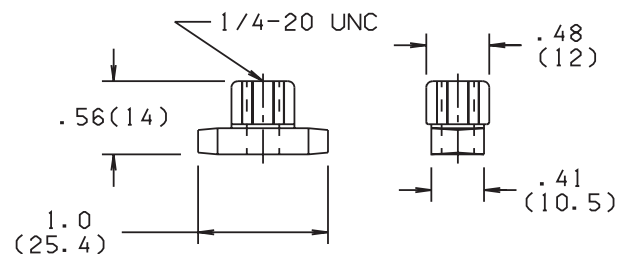


PART NO.	LENGTH
R-1	3.28 ft. (1 meter)
R-2	6.56 ft. (2 meter)

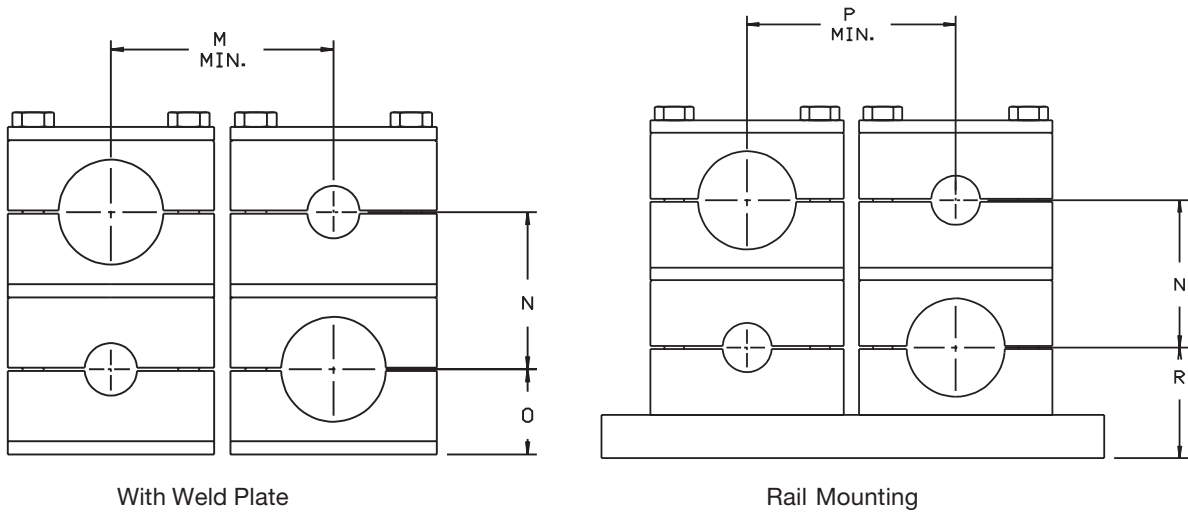
Hexagon Rail Nut

HRN

Material: Steel, unplated



Layout Data for Pipe, Tube and Hose



Group Code		Size Range Tube O.D. Nom. Pipe	Installation Dimensions				R with Mounting Rail
			M	P	N	O	
1	in	1/4 to 3/8	1 5/16	1 3/16	1 3/16	5/8	15/16
	mm	6 to 10.2	33	30	30	16.5	24.5
1a	in	1/4 to 3/8	1 7/16		1 1/8	5/8	15/16
	mm	6 to 10.2	36		29	16	24
2	in	1/4 to 5/8	1 11/16		1 7/16	3/4	1 1/16
	mm	6.4 TO 18.0	42		36	19.5	27.5
3	in	1/4 to 1	2		1 1/2	13/16	1 1/8
	mm	6.4 to 25.4	50		38	20.5	28.5
4	in	1/2 to 3/4 P	2 3/8		1 3/4	15/16	1 1/4
	mm	12.7 to 30.0	60		45	24	32
5	in	1/2 to 1 1/4 P	2 25/32		2 3/8	1 1/4	1 9/16
	mm	12.7 to 42.1	70		61	32	40
6	in	3/4 P to 2 T	3 1/2		2 11/16	1 7/16	1 3/4
	mm	26.6 to 50.8	88		69	36	44

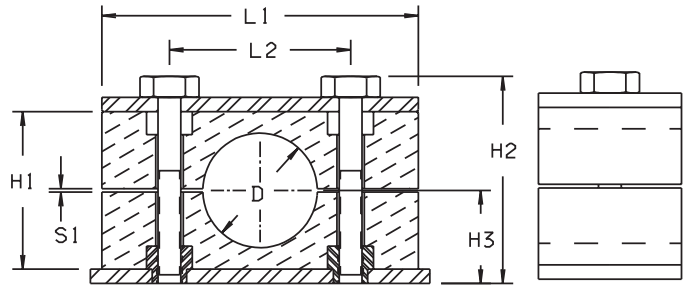
Max. tightening torque

Bolt Thread	Torque	
	in.-lbs.	Nm
1/4 - 20 UNC	70	8

Recommended Spacing
for Standard Series Clamps

Tube: O.D. Pipe Size: NB		Outside Diameter (mm)	Spacing	
			Feet	Meters
O.D.	1/4	6.4		
O.D.	5/16	7.9	3	0.9
O.D.	3/8	9.5		
O.D.	1/2	12.7		
O.D.	5/8	15.9		
O.D.	3/4	19.1	4	1.2
O.D.	7/8	22.2		
O.D.	1	25.4	5	1.5
O.D.	1 1/4	31.8		
N.B.	1	33.4	7	2.1
O.D.	1 1/2	38.1		
N.B.	1 1/2	48.3	9	2.7
N.B.	2	60.3	10	3

Heavy Series Clamp Sizes



Note: One clamp set includes two identical halves of polypropylene

TUBE SIZE	PART #	GROUP #	D in	D mm	H1 in	H2 in	H3 in	L1 in	L2 in	S1 in
3/8	3095-HPP	3	0.37	9.5	1.26	2.17	0.94	2.17	1.30	0.08
1/2	3127-HPP	3	0.50	12.7	1.26	2.17	0.94	2.17	1.30	0.08
5/8	3160-HPP	3	0.63	16.0	1.26	2.17	0.94	2.17	1.30	0.08
3/4	4190-HPP	4	0.75	19.0	1.89	2.80	1.26	2.76	1.77	0.08
1	4254-HPP	4	1.00	25.4	1.89	2.80	1.26	2.76	1.77	0.08
1 1/4	5320-HPP	5	1.25	32.0	2.36	3.27	1.50	3.31	2.36	0.08
1 1/2	5381-HPP	5	1.50	38.1	2.36	3.27	1.50	3.31	2.36	0.08
2	6508-HPP	6	2.00	50.8	3.54	4.61	2.17	4.53	3.54	0.12

PIPE SIZE	PART #	GROUP #	D in	D mm	H1 in	H2 in	H3 in	L1 in	L2 in	S1 in
1/2	4213-HPP	4	0.84	21.3	1.89	2.80	1.26	2.76	1.77	0.08
3/4	4267-HPP	4	1.05	26.7	1.89	2.80	1.26	2.76	1.77	0.08
1	5334-HPP	5	1.31	33.4	2.36	3.27	1.50	3.31	2.36	0.08
1 1/4	5422-HPP	5	1.66	42.2	2.36	3.27	1.50	3.31	2.36	0.08
1 1/2	6483-HPP	6	1.90	48.3	3.54	4.61	2.17	4.53	3.54	0.12
2	6603-HPP	6	2.37	60.3	3.54	4.61	2.17	4.53	3.54	0.12

HOSE SIZE	PART #	GROUP #	D in	D mm	H1 in	H2 in	H3 in	L1 in	L2 in	S1 in
1/4	H4150HPP	4	0.59	15.0	1.89	2.80	1.26	2.77	1.77	0.08
3/8	H4198HPP	4	0.78	19.8	1.89	2.80	1.26	2.77	1.77	0.08
1/2	H4221HPP	4	0.87	22.1	1.89	2.80	1.26	2.77	1.77	0.08
5/8	H4251HPP	4	0.99	25.1	1.89	2.80	1.26	2.77	1.77	0.08
3/4	H4292HPP	4	1.15	29.2	1.89	2.80	1.26	2.77	1.77	0.08
1	H6378HPP	6	1.49	37.8	3.54	4.61	2.17	4.53	3.54	0.12
1 1/4	H6484HPP	6	1.91	48.4	3.54	4.61	2.17	4.53	3.54	0.12
1 1/2	H6544HPP	6	2.14	54.4	3.54	4.61	2.17	4.53	3.54	0.12

FOR USE WITH 100R2 HOSE

Cover Plate Heavy

CPH

Material: Steel, Zinc Gold Chromate Plated

GROUP		H3	H4	H5	H6
PART NUMBER		CPH-3	CPH-4	CPH-5	CPH-6
PLATE THICKNESS	inches	5/16	5/16	5/16	25/64
	mm	8	8	8	10

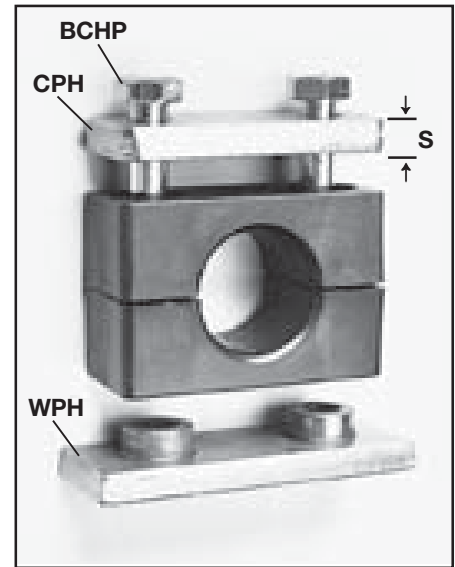
Hexagon Head Bolt for Coverplate

BCPH

(2 Required Per Clamp Set)

Note: Zinc Clear Chromate Plated

GROUP	H3	H4	H5	H6
PART NO.	BCPH-3	BCPH-4	BCPH-5	BCPH-6
BOLT LENGTH	1 3/4	2 1/4	2 3/4	4
UNC THREAD	3/8 - 16	3/8 - 16	3/8 - 16	7/16 - 14



Locking Plate Heavy

LPH

Material: Steel, Zinc Gold Chromate Plated

GROUP	H3	H4	H5	H6
PART NO.	LPH-3	LPH-4	LPH-5	LPH-6

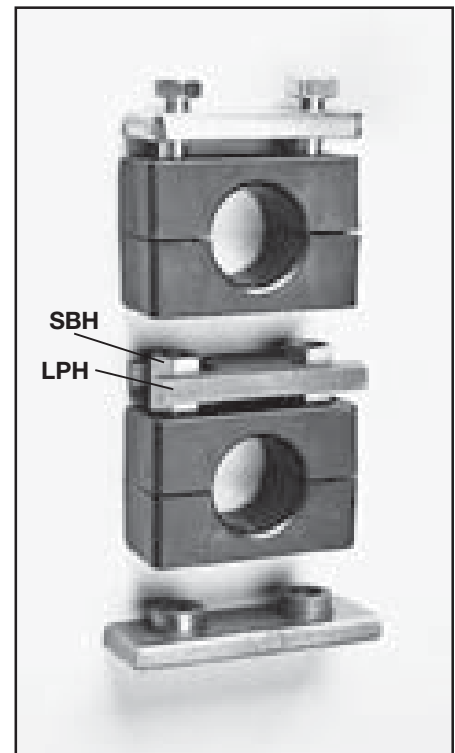
Stacking Bolt Heavy

SBH

(2 Required per Clamp Set)

Note: Zinc Clear Chromate Plated

GROUP	H3	H4	H5	H6
PART NO.	SBH-3	SBH-4	SBH-5	SBH-6

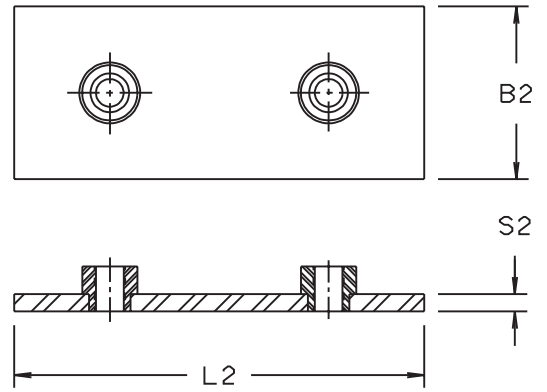


Weld Plate Heavy

WPH

Material: Steel, unplated

GROUP		H3	H4	H5	H6
PART NO.		WPH-3	WPH-4	WPH-5	WPH-6
Length	inches	2 7/8	3 11/32	3 15/16	5 29/32
	mm	73	85	100	150
Width	inches	1 1/4	1 1/4	1 1/4	1 3/4
	mm	32	32	32	45
Thickness	inches	5/16	5/16	5/16	3/8
	mm	8	8	8	10

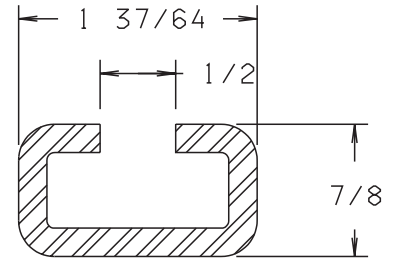


Mounting Rail Heavy

RH

Material: Steel, unplated

PART NO.	LENGTH
R1H	3.28 ft. (1 meter)
R2H	6.56 ft. (2 meter)

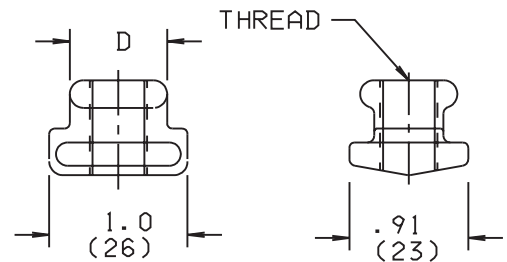


Mounting Rail Nut Heavy

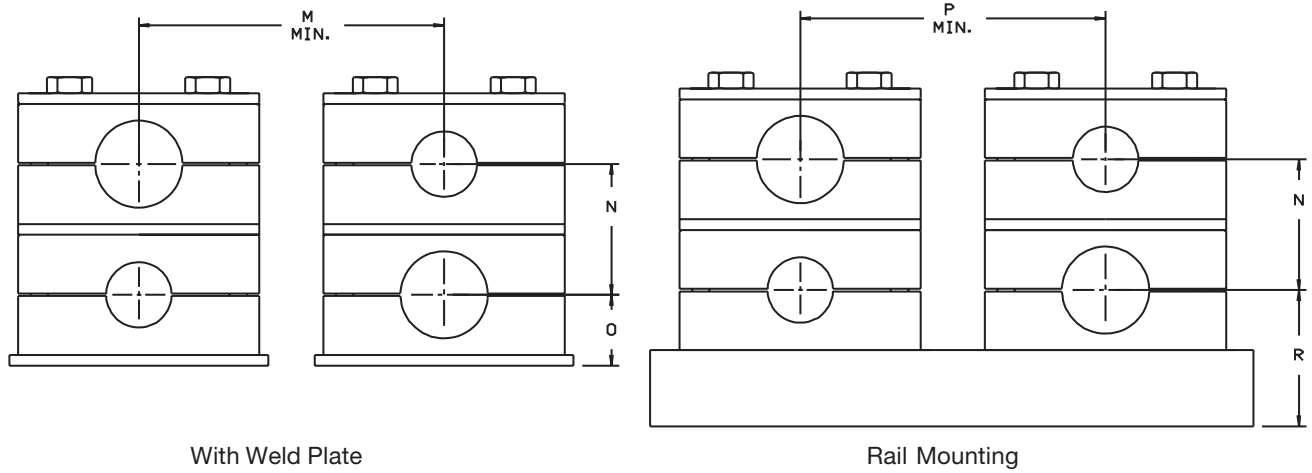
RNH

Material: Steel, unplated

PART NO.	RNH-10	RNH-12
For Clamp Sizes	H3-H5	H6
D	in	45/64
	mm	18
Thread	3/8 - UNC	7/16 - 14 UNC



Layout Data for Pipe and Tube



Group Code		Size Range Tube O.D./ Nom. Pipe	Installation Dimensions				
			M	N	O	P	R
H3	in	7/32 - 23/32	2 15/16	1 9/16	15/16	2 5/16	1 1/2
	mm	6 - 18	74	40	24	58	38
H4	in	3/4 - 13/16	3 1/2	2 3/16	1 1/4	2 7/8	1 13/16
	mm	19 - 30	89	56	32	73	46
H5	in	1 3/16 - 1 37/64	4 1/16	2 11/16	1 1/2	3 7/16	2 1/16
	mm	30 - 40	103	68	38	87	52
H6	in	1 1/2 - 2 3/4	5 33/64	3 7/8	2 1/8	4 5/8	2 5/8
	mm	38 - 70	140	98	54	118	66

Max. tightening torque

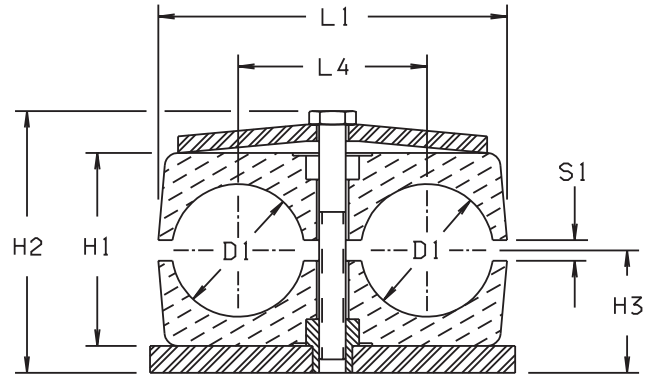
Series	Bolt Thread	Torque	
		in-Lb	Nm
H3, H4	3/8 - 16 UNC	106	12
H5	3/8 - 16 UNC	133	15
H6	7/16 - 14 UNC	265	30

Recommended Spacing for
Heavy Series Clamps

Tube: O.D. Pipe Size: NB		Outside Diameter (mm)	Spacing	
			Feet	Meters
O.D.	1/4	6.4		
O.D.	5/16	7.9	3	0.9
O.D.	3/8	9.5		
O.D.	1/2	12.7		
O.D.	5/8	15.9		
O.D.	3/4	19.1	4	1.2
O.D.	7/8	22.2		
O.D.	1	25.4	5	1.5
O.D.	1 1/4	31.8		
N.B.	1	33.4	7	2.1
O.D.	1 1/2	38.1		
N.B.	1 1/2	48.3	9	2.7
N.B.	2	60.3	10	3

Twin Series Clamp Sizes

Note: One clamp set includes two identical halves of polypropylene



TUBE SIZE	PART #	GROUP #	D1		H1 in	H2 in	H3 in	L1 in	L4 in	S1 in
			in	mm						
1/4	1064/64-PP	T1	0.25	6.4	0.79	1.18	0.59	1.42	0.79	0.04
3/8	1095/95-PP	T1	0.38	9.5	0.79	1.18	0.59	1.42	0.79	0.04
1/2	2127/127-PP	T2	0.50	12.7	1.02	1.73	0.71	2.13	1.14	0.16
5/8	2160/160-PP	T2	0.63	16.0	1.02	1.73	0.71	2.13	1.14	0.16
3/4	3190/190-PP	T3	0.75	19.0	1.46	2.17	0.93	2.64	1.42	0.16
1	3254/254-PP	T3	1.00	25.4	1.46	2.17	0.93	2.64	1.42	0.16
1 1/4	5320/320-PP	T5	1.25	32.0	2.13	2.83	1.26	4.09	2.20	0.16
1 1/2	5381/381-PP	T5	1.50	38.1	2.13	2.83	1.26	4.09	2.20	0.16

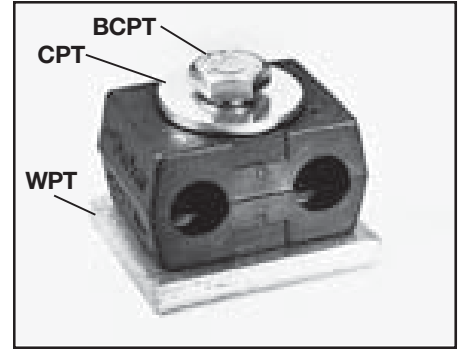
PIPE SIZE	PART #	GROUP #	D1		H1 in	H2 in	H3 in	L1 in	L4 in	S1 in
			in	mm						
3/4	4266/266-PP	T4	1.05	26.6	1.65	2.36	1.02	3.15	1.77	0.16
1	5334/334-PP	T5	1.31	33.4	2.13	2.83	1.26	4.09	2.20	0.16

Cover Plate

CPT

Material: Steel, Zinc Gold Chromate Plated

GROUP		T1	T2	T3	T4	T5
PART NO.		CPT-1	CPT-2	CPT-3	CPT-4	CPT-5
PLATE THICKNESS S1	inches	1/16	1/8	1/8	1/8	1/8
	mm	1.5	3	3	3	3
HEIGHT OF COVER PLATE H3	inches	1/16	9/32	9/32	5/16	5/16
	mm	1.5	7	7	8	8

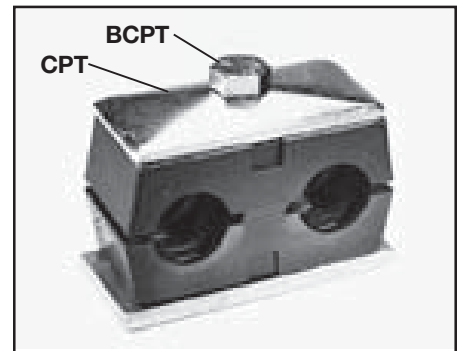


Hexagon Head Bolt for Coverplate

BCPT

Note: Zinc Clear Chromate Plated

GROUP	T1	T2	T3	T4	T5
PART NO.	BCPT-1	BCPT-2	BCPT-3	BCPT-4	BCPT-5
UNC THREAD	1/4-20	5/16-18	5/16-18	5/16-18	5/16-18
LENGTH	1"	1 3/8"	1 3/4"	2"	2 1/2"



Group T2 Through T5

Locking Plate

LPT

Material: Steel, Zinc Gold Chromate Plated

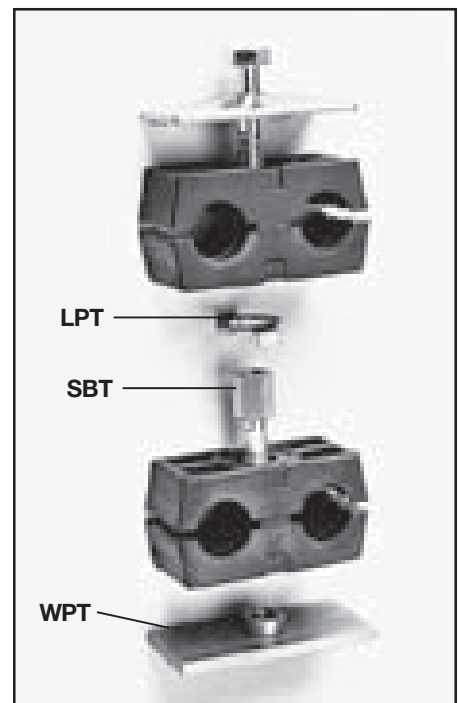
PART NO.	LPT-1	LPT-2	LPT-3	LPT-4	LPT-5
FOR CLAMP SIZES	T1	T2	T3	T4	T5

Stacking Bolt

SBT

Note: Zinc Clear Chromate Plated

GROUP	T1	T2	T3	T4	T5
PART NO.	SBT-1	SBT-2	SBT-3	SBT-4	SBT-5
UNC THREAD	1/4-20	5/16-18	5/16-18	5/16-18	5/16-18
LENGTH	19/32	25/32	1 1/8	1 11/16	1 25/32

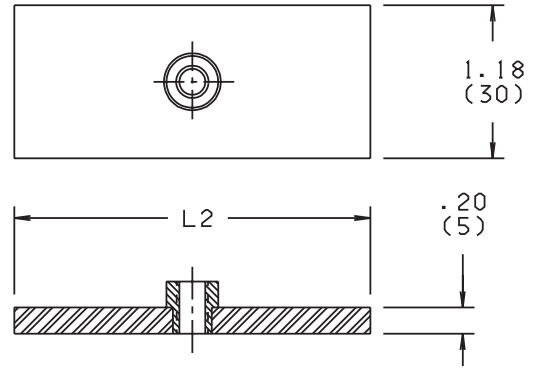


Weld Plate Twin

WPT

Material: Steel, unplated

GROUP		T1	T2	T3	T4	T5
PART NO.		WPT-1	WPT-2	WPT-3	WPT-4	WPT-5
Length	inches	1 15/32	2 5/32	2 3/4	3 11/32	4 11/32
L2	mm	37	55	70	85	110

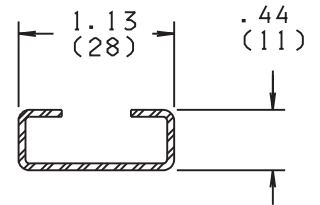


Mounting Rail

R

Material: Steel, unplated

PART NO.	LENGTH
R-1	3.28 ft. (1 meter)
R-2	6.56 ft. (2 meter)

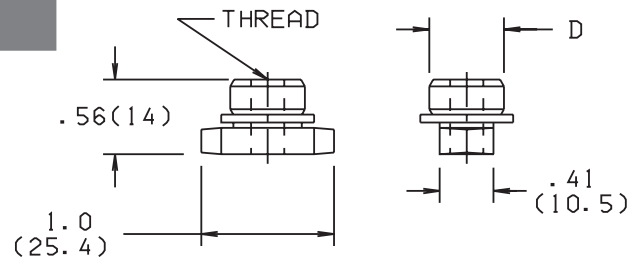


Mounting Rail Nut Twin

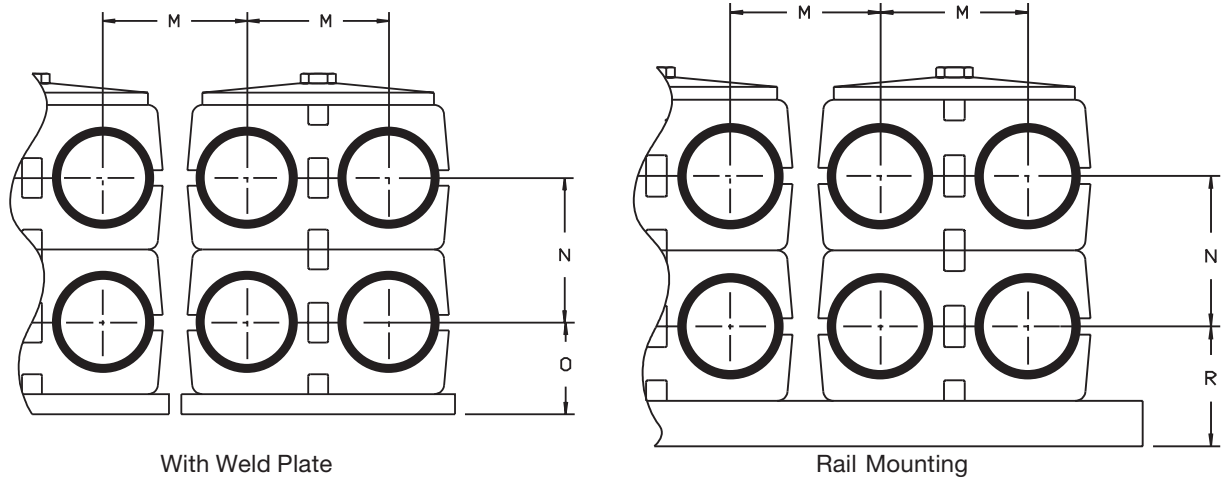
RNT

Material: Steel, unplated

PART NO.		RNT-1		RNT-2-5	
For Clamp Sizes		T1		T2-T5	
D	in	25/64	9/16		
	mm	10	14		
Thread		1/4 - 20 UNC		5/16 - 18 UNC	



Layout Data for Pipe and Tube



Group Code		Std. Size Range Tube O.D./ Nom. Pipe	Installation Dimensions			R with Mounting Rail
			M	N	O	
T1	in	1/4 to 3/8	13/16	13/16	9/16	13/16
	mm	6.4 to 10.2	20	20	15	21
T2	in	1/2 to 5/8	1 1/8	1	11/16	15/16
	mm	12.7 to 17.1	29	26	18	24
T3	in	3/4 to 1	1 7/16	1 7/16	15/16	1 3/16
	mm	19 to 25.4	36	37	23.5	29.5
T4	in	1 1/8	1 3/4	1 11/16	1	1 1/4
	mm	28	45	42	26	32
T5	in	1 1/4 to 1 1/2	2 1/5	2 1/8	1 1/4	1 1/2
	mm	31.8 to 42.1	56	54	32	38

Max. tightening torque

Series	Bolt Thread	Torques	
		in.-lbs.	Nm
T1	1/4 - 20 UNC	45	5
T2 - T4	5/16 - 18 UNC	104	12
T5	5/16 - 18 UNC	70	8

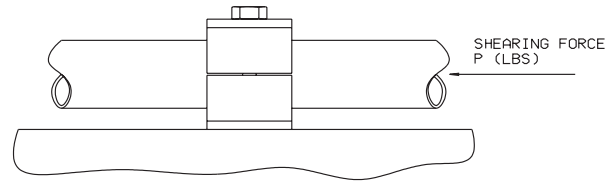
Recommended Spacing
for Twin Series Clamps

Tube: O.D. Pipe Size: NB		Outside Diameter (mm)	Spacing	
			Feet	Meters
O.D.	1/4	6.4	3	0.9
O.D.	5/16	7.9		
O.D.	3/8	9.5		
O.D.	1/2	12.7	4	1.2
O.D.	5/8	15.9		
O.D.	3/4	19.1		
O.D.	7/8	22.2		
O.D.	1	25.4	5	1.5
O.D.	1 1/4	31.8		
N.B.	1	33.4	7	2.1
O.D.	1 1/2	38.1		

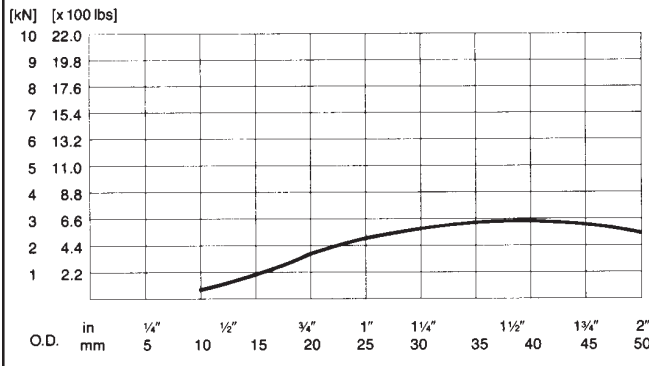
Shearing Force Diagram

The forces shown in these diagrams are those taken up by the clamps in the axial direction.

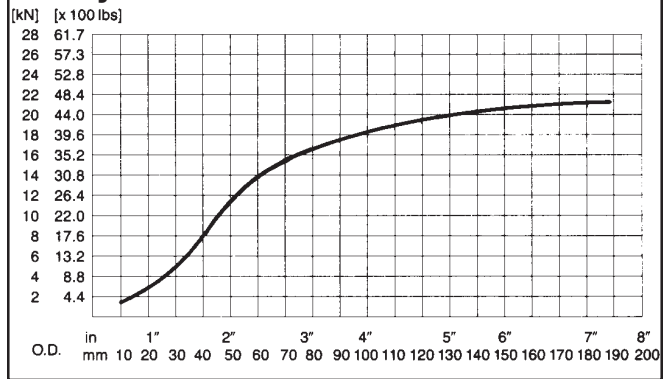
The sliding friction starts when the shown values are reached.



Standard Series



Heavy Series



Clamp Body Material Properties

	Polypropylene PP
MECHANICAL PROPERTIES	
Density	.901g/cc
Tensile Strength	28 MPa (4,000 psi)
Flexural Modulus	1150 MPa
Compressive Strength	90MPa (23,050 psi)
Notched IZOD Impact Strength	14 ft-lb/in

	Polypropylene PP
THERMAL PROPERTIES	
Max. Temperature Resistance	-29° to +102° C -20° to +215°F
ELECTRICAL PROPERTIES	
Specific Volume Resistivity Ohm x inch	3.9 x 10 ¹⁷
CHEMICAL PROPERTIES	
Light Acids, Solvents	Stable
Fuels, Mineral Oils	Stable
Alcohol, Paints, Saltwater	Stable

Installation for All ParKlamp Series

Since there is no difference between the top and bottom halves of ParKlamp Tube Clamps, it is impossible to confuse them, saving time during installation. This also applies to their mounting on the weld plates or mounting rails, as the lower half of the clamp only needs to be slid onto either welded-on nuts (weld plate) or insert nuts (mounting rails). Therefore, only a few instructions are required for the installation of ParKlamp Tube Clamps.

1. Please ensure that weld plates or mounting rails are firmly supported according to individual stress. Minimum welding length is equal to minimum welding plate width.

2. ParKlamp Tube Clamps should be installed according to the spacing intervals listed on pages L8, L12 and L16.
3. Tube bends should be supported by clamps as near to the bend as possible.

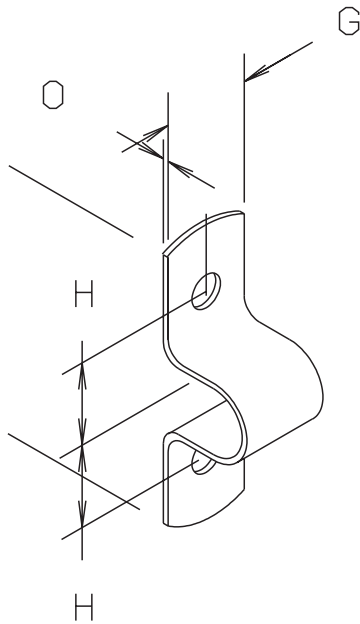
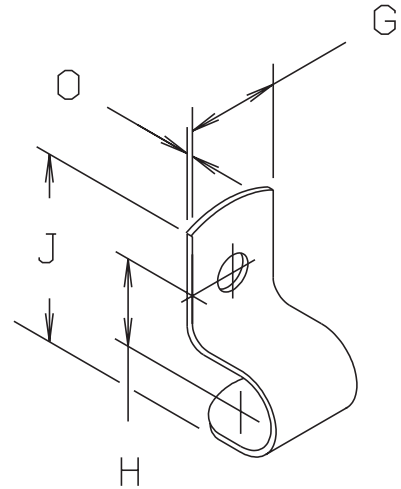
Weld Plate Material

Weld plates are not plated and are made from ASTM A 575 M 1020 grade material.

Note: Steel bolts are grade 5.

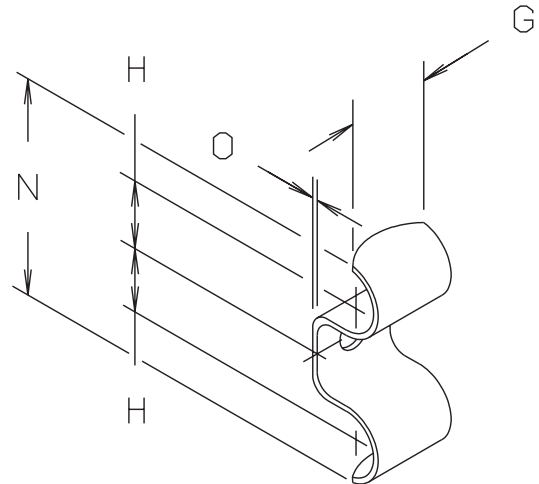
ParKlamp Inch Tube Clamps Tube Clips

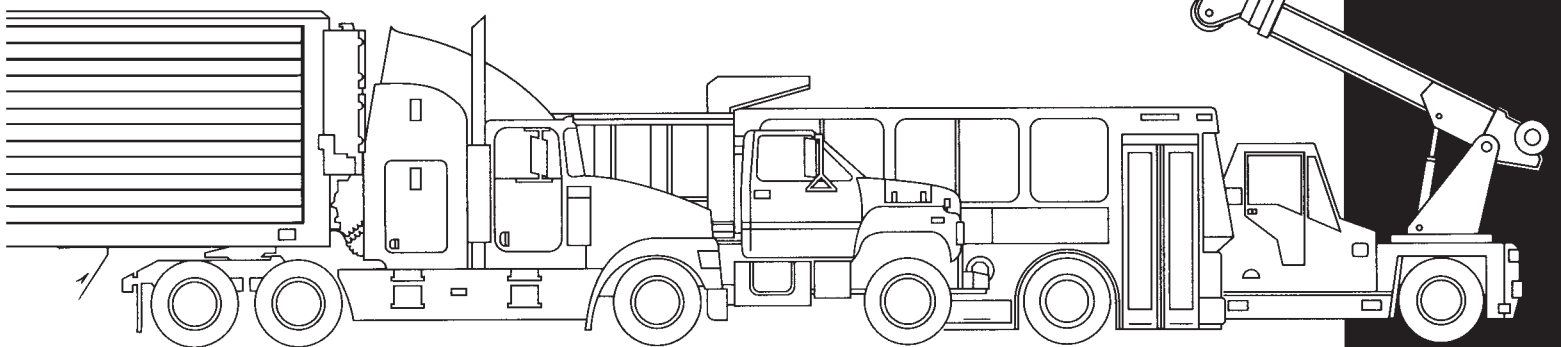
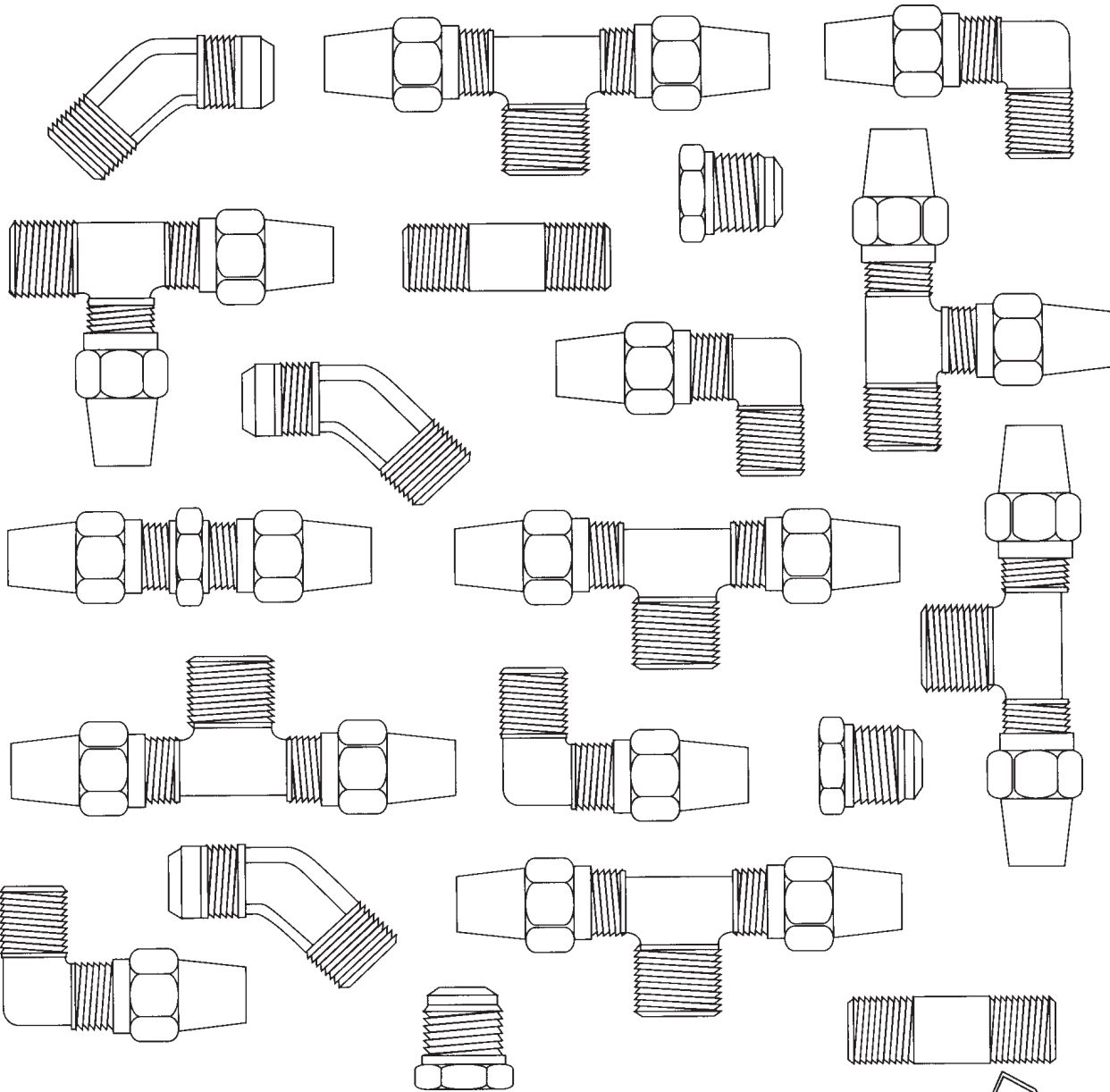
Part No. Brass	Tube O.D. in	G in	H in	J in	O in	Hole Dia in
3121-1-3	3/16	5/16	9/32	17/32	1/32	5/32
3121-1-4	1/4	3/8	11/32	21/32	1/32	3/16
3121-1-5	5/16	7/16	13/32	13/16	1/32	3/16
3121-1-6	3/8	1/2	15/32	15/16	1/32	3/16
3121-1-8	1/2	1/2	35/64	1 1/16	3/64	7/32
3121-1-10	5/8	5/8	11/16	1 5/16	1/16	1/4
3121-1-12	3/4	3/4	13/16	1 9/16	1/16	9/32



Part No. Brass	Tube O.D. in	G in	H in	M in	O in	Hole Dia. in
3121-3-3	3/16	5/16	9/32	7/8	1/32	5/32
3121-3-4	1/4	3/8	11/32	1 1/16	1/32	3/16
3121-3-5	5/16	7/16	13/32	1 1/4	1/32	3/16
3121-3-6	3/8	1/2	15/32	1 7/16	1/32	3/16
3121-3-8	1/2	1/2	35/64	1 19/32	3/64	7/32
3121-3-10	5/8	5/8	11/16	2	1/16	1/4
3121-3-12	3/4	3/4	13/16	2 3/8	1/16	9/32

Part No. Brass	Tube O.D. in	G in	H in	N in	O in	Hole Dia. in
3121-4-3	3/16	5/16	9/32	13/16	1/32	5/32
3121-4-4	1/4	3/8	11/32	1	1/32	3/16
3121-4-5	5/16	7/16	13/32	1 3/16	1/32	3/16
3121-4-6	3/8	1/2	15/32	1 3/8	1/32	3/16
3121-4-8	1/2	1/2	35/64	1 11/16	3/64	7/32
3121-4-10	5/8	5/8	11/16	2 1/8	1/16	1/4
3121-4-12	3/4	3/4	13/16	2 1/2	1/16	9/32





General Description	pg. G2*
See page 33 of the introductory section for "How to Order" information.	
<hr/>	
Visual Index	pg. G4
<hr/>	
Air Brake - AB Fittings	pg. G15
AB fittings will meet DOT FMVSS571.106 air brake specifications when assembled with 63NTA tube support and J844 nylon tubing. Use with copper tubing in air brake systems. Bodies (with addition of NTA tube support) are interchangeable with NTA bodies for use with SAE J844 nylon tubing. Working Pressure up to 400 psi, Temperature Ranges from -65°F to +250°F.	
<hr/>	
Air Brake - NTA Fittings	pg. G17
Meets D.O.T. FMVSS 571.106 air brake specifications and functional requirements of the SAE automotive tube fitting standards: SAE J246 and SAE J1131. Bodies (less tube supports) are interchangeable with AB (SAE J246) fitting bodies. Use with SAE J844 Type A and B nylon tubing in air brake systems or in cab air controls. Working Pressure up to 150 psi, Temperature Ranges from -40°F to +200°F.	
<hr/>	
Air Brake Hose Ends	pg. G40
Air brake hose ends will meet D.O.T. FMVSS571.106 standards when used with SAE J1402 Air brake hose. Working pressure up to 125 psi, Temperature ranges -40°F to +120°F.	
<hr/>	
Air Shift - Transmission Fittings	pg. G15
Brass Fittings used in the air shift - transmission system.	
<hr/>	
Bottle Gas Fittings	pg. G46
Bottle gas fittings listed with Underwriter's Laboratories for LP gas systems. From -65°F to +200°F at 250 psi maximum.	
<hr/>	
Compression Fittings	pg. G22
Listed with Underwriters Laboratories for flammable liquid. Compression fittings meet functional requirements of SAE J512, ASA and ASME. Working pressures table Catalog 3501E. Temperature ranges from -65°F to +250°F.	
<hr/>	
Garden Hose Fittings	pg. G42
From +35°F to +100°F at 75 psi maximum or the recommended working pressure of garden hose. Not to exceed 150 psi. These fittings are intended for use with 97 HC hose clamp or crimped ferrule. All female connector ends should have a rubber washer (901 GH-12) inserted prior to usage.	

Hose Barb Fittings

From -40°F to +160°F at 150 psi maximum.

pg. G44

Inverted Flared Adapters

Listed with Underwriter's Laboratories for flammable liquid and gas. Meets functional requirements of SAE J512, ASA, ASME and MS (Military Standards). Working pressure table Catalog 3501-E. Temperature ranges from -65°F to +25°F.

pg. G38

Pipe Adapters (SAE Automotive)

Brass pipe fittings for low and medium pressure line connections work from -65°F to +250°F at 1000 psi. All pipe fitting threads made to Dryseal standards. Meets functional requirements of the SAE, ASME, and ASA.

pg. G31

Pipe Adapters Metric

Brass pipe fittings for low and medium pressure line connections work from -65°F to +250°F at 1000 psi. NPT, BSPP and BSPT threads available.

pg. G35

Prestomatic Fittings

Push to connect Air Brake Fitting that meets DOT FMVSS 571.106 air brake specifications and functional requirements of SAE J246 and SAE J1131. Use with SAE J844 Type A or B Nylon Tubing in air brake systems or cab air controls. Available in both metric and standard threads. Body material available in brass or composite.

pg. G9

SAE 45° Flared Fittings

Available for tube or hose connections requiring the SAE 45° flared fitting connection. Listed with Underwriter's Laboratories for flammable liquid, marine, refrigeration and gas applications. Meets functional requirements of SAE, ASA, ASME and MS (Military Standards). Working pressure table 3501-E. Temperature ranges from -65°F to +250°F.

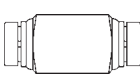
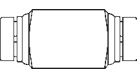

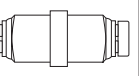
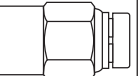

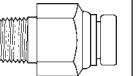
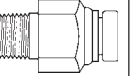


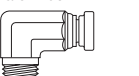



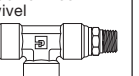
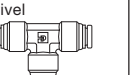
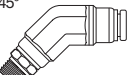





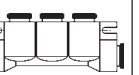
pg. G26

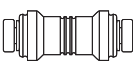
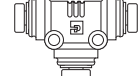
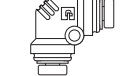

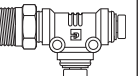
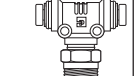
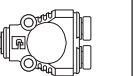
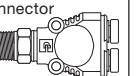
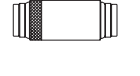
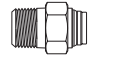




Vibra-Lok Fittings

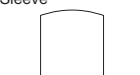







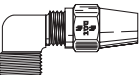
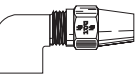
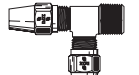
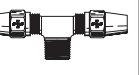
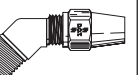
Working pressure table Catalog 3501-E. Standard Vibra-Lok fittings are suitable for use at temperatures from sub-zero to 275°F. Standard Buna N sleeves are marked with green. Viton seals are marked with red.

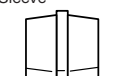


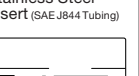



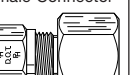
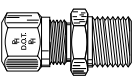
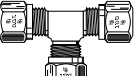
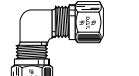



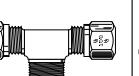
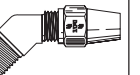
pg. G21






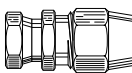


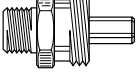


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

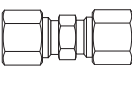
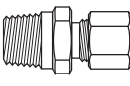
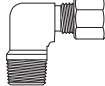
Brass Fittings/Prestomatic Fittings							
62PM Union  Page G9	62PMT Union  Page G9	62PMTBH Bulkhead Union  Page G9	62PMTBHR Bulkhead Union  Page G9	66PMT Female Connector  Page G9	66PMTBH Bulkhead Female Connector  Page G9	68PM Male Connector  Page G9	68PMT Male Connector  Page G10
164PMT Union Tee  Page G10	165PMT Union Elbow  Page G10	169PMNS Male Elbow  Page G10	169PMT Male Elbow Swivel 90°  Page G10	169PMTNS Male Elbow Non-Swivel 90°  Page G10	170PMTNS Female Elbow Non-Swivel 90°  Page G10	171PMT Male Run Tee Swivel  Page G11	172PMT Male Branch Tee Swivel  Page G11
179PMT Male Elbow Swivel 45°  Page G11	179PMTNS Male Elbow Non-Swivel 45°  Page G11	189PMT Dual Port 90° Male Elbow Non-Swivel  Page G11	639PMT Push-to-Connect Fitting Plug  Page G11	VS68DF Male Connector  Page G12	VS169DFNS Male Elbow Non-Swivel 90°  Page G12	23M Manifold  Page G12	


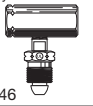
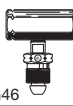
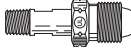
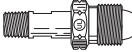

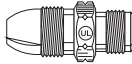
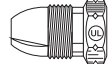

Brass Fittings/Prestomatic Metric and Composite							
32PM Composite Union  Page G12	364PM Composite Union Tee  Page G12	365PM Composite Union Elbow  Page G13	369PM Composite Elbow Swivel 90°  Page G13	371PM Composite Male Run Tee Swivel  Page G13	372PM Composite Male Branch Tee Swivel  Page G13	362PM Composite Union Y Connector  Page G13	368PM Composite Union Y Male Swivel Connector  Page G13
HPMTB Union  Page G14	F3PMTB Male Connector BSPT  Page G14	F8UPMTB Male Connector Metric Straight Thread  Page G14	JPMTB Union Tee  Page G14	C8UPMTB Male Elbow Metric Straight Thread  Page G14	S8UPMTB Male Branch Tee Swivel Metric Straight Thread  Page G14		






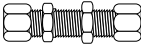
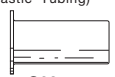
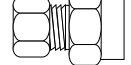

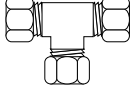

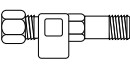

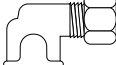
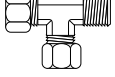
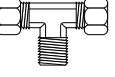

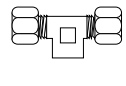
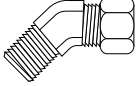

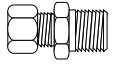
Brass Fittings/Air Brake-AB							
60AB Sleeve  Page G15	61AB Nut  Page G15	62AB Union  Page G15	62ABH Bulkhead Union  Page G16	66AB Female Connector  Page G16	VS68AB Male Connector  Page G16	264AB Union Tee  Page G16	265AB Union Elbow  Page G16
VS269AB Male Elbow  Page G16	270AB Female Elbow  Page G17	VS271AB Male Branch Tee  Page G17	VS272AB Male Branch Tee  Page G17	VS279AB 45° Elbow  Page G17			


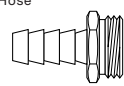







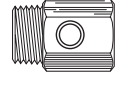

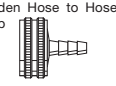



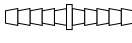

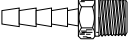


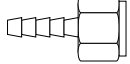

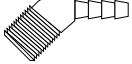

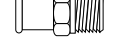



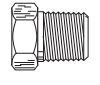






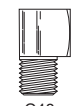
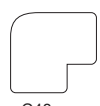
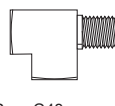
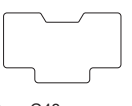

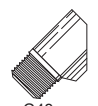

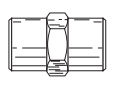






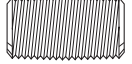
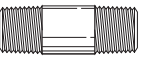
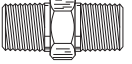
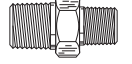



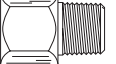

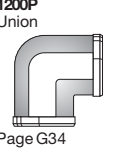
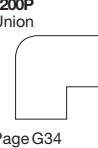
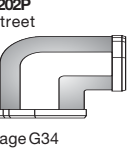
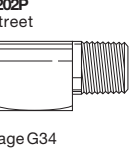


Brass Fittings/Air Brake NTA							
60NTA Sleeve  Page G17	61NTA Nut  Page G17	62NTA Union  Page G18	63NTA Stainless Steel Insert (SAE J844 Tubing)  Page G18	62ANBH Bulkhead Union (NTA & Air Brake)  Page G18	62NBH (NTA) Bulkhead Union  Page G18	66NBH Bulkhead Union  Page G18	66NTA Female Connector  Page G18
VS68NTA Male Connector  Page G19	264NTA Union Tee  Page G19	265NTA Union Elbow  Page G19	VS269NTA Male Elbow  Page G19	270NTA Female Elbow  Page G20	VS271NTA Male Run Tee  Page G20	VS272NTA Male Branch Tee  Page G20	VS279NTA 45° Elbow  Page G20

Brass Fittings/Air Brake Hose Ends							
56RBSG Spring  Page G40	60RB Sleeve  Page G41	61RB Nut  Page G41	61RBSG Spring Guard Nut  Page G41	62RB Union  Page G41	66RBSV Female Swivel Connector  Page G41	67RBSG Air Brake Hose Nut & Attached Spring  Page G41	68RB Male Connector  Page G41
68RB Male Connector - Body Only  Page G42	68RBSG Male Connector w/Spring Guard  Page G42	76RB Adapter  Page G42					

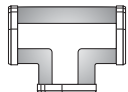
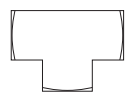
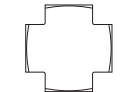

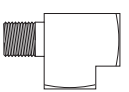

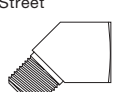
Brass Fittings/Air Shift - Transmission							
60TF Sleeve  Page G15	61TF Nut  Page G15	62TF Union  Page G15	68TF Male Connector  Page G15	269TF Male Elbow  Page G15			

Brass Fittings/Bottle Gas							
2000 Tee Check  Page G46	2001 Manifold Block Tee Assembly with Check Valve  Page G46	2001S Manifold Block Tee Assemble without Check Valve  Page G46	2002AB POL Tailpiece and Nut Assembly  Page G47	2002ABLH POL Tailpiece and Large Hex Nut Assembly  Page G47	2004 POL Cap with POL Female Thread  Page G47	2005,6,7/2008 Connectors (Size 3/8 Flare to 1/4 FPT; 1/2 MPT)  Page G47	2014 POL Plug with POL Male Thread  Page G47
GF6 Cap Orifice  Page G47							






















Brass Fittings/Compression							
60C Sleeve  Page G22	60PT Delrin Sleeve  Page G22	61C Nut  Page G22	61CL Long Nut  Page G22	62C Union  Page G22	62CBH Bulkhead Union  Page G23	63PT Brass Insert (For Industrial Grade Plastic Tubing)  Page G23	66C Female Connector  Page G23
68C Male Connector  Page G23	164C/264C Union Tee  Page G24	165C/265C Union Elbow  Page G24	168C Compression Gage Tee  Page G24	169C/269C Male Elbow  Page G24	170C/270C Female Elbow  Page G25	171C Male Run Tee  Page G25	172C Male Branch Tee  Page G25
176C Adapter Tee  Page G25	177C Female Branch Tee  Page G25	179C 45° Elbow  Page G26	639C Seal Plug  Page G26	682C Straight through Tank Fitting  Page G26			

Brass Fittings/Garden Hose							
50GHSV/51HGSV Swivel Connector SAE Flare to Female Hose Thread  Page G42	53GH/54GH/55GH Hose Barb to Garden Hose  Page G42	69GH/70GH/71GH/75GH Male Hose to Male Pipe  Page G42	78GH/79GH/80GH/81GH Male Hose to Female Pipe  Page G43	82GH/83GH Female Hose to Male Pipe  Page G43	98GH/99GH Female Hose to Female Pipe  Page G43	98GHSV/99GHSV Swivel Connector Female Hose to Female Pipe  Page G43	101GHSV Swivel Nut Connector  Page G43
901GH Rubber Garden Hose Coupling Washer  Page G43	84GH Special Filter Adapter  Page G43	88GH/89GH Swivel Connector Female Garden Hose to Male Pipe  Page G43	90GH/91GH/92GH/93GH Swivel Connector Female Garden Hose to Hose Barb  Page G44	94GH Knurled Hose Nut  Page G44	95GH Hose Nut Reducer  Page G44	96GH Hose Cap Nut  Page G44	
Brass Fittings/Hose Barbs							
122HBL Hose Mender  Page G44	125HB Hose Barb to Male Pipe  Page G44	125HBL Hose Barb to Male Pipe  Page G44	126HBL Hose Barb to Female Pipe  Page G45	127HB Ball-End Joint Adapter to Male Pipe  Page G5	128HBLSV Hose Barb to Swivel Female Ball End  Page G45	129HB Hose Barb 90° Elbow to Male Pipe  Page G45	139HB Hose Barb 45° Elbow to Male Pipe  Page G45
146HBLFSV Hose Barb to Swivel 45° Female Flare  Page G45	68HB Beaded Hose Barb to Male Pipe  Page G46	269HB Beaded Hose Barb 90° Elbow Tube to Male Pipe  Page G46	97HC Stainless Steel Worm Drive Clamp  Page G46				
Brass Fittings/Inverted Flare							
41F Nut  Page G38	41FS Steel Nut  Page G38	43F Special Ford Nut  Page G39	421FHD Union  Page G39	461FHD Female Connector  Page G39	481FHD Male Connector  Page G39	2441FHD Union Tee  Page G39	2451FHD Male Branch Tee  Page G39
2491FHD & 2491F Male Elbow  Page G40	2501FHD Female Elbow  Page G40	2511FHD Male Run Tee  Page G40	2521FHD Female Branch Tee  Page G40	2551FHD Union Elbow  Page G40	2591FHD 45° Elbow  Page G40		
Brass Fittings/Pipe (SAE Automotive)							
207ACBH Anchor Connector  Page G31	207P Coupling  Page G31	208P Reducer Coupling  Page G31	209P Bushing  Page G32	210P Lock Nut  Page G32	211P Square-Head Plug  Page G32	212P Union  Page G32	213P Cap  Page G32
215PN Close Nipple  Page G32	215PNL Long Nipple  Page G33	216P Hex Nipple  Page G33	216P Reducers  Page G33	218P Hex-Head Plug  Page G33	219P Countersunk Hex-Head Plug  Page G33	220P Slotted-Head Plug  Page G33	222P Adapter  Page G33
90° Elbows  Page G34	1200P Union  Page G34	2200P Union  Page G34	1202P Street  Page G34	2202P Street  Page G34	1204P Forged Male  Page G34	2200PDE Drop-Ear  Page G34	

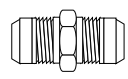
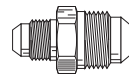
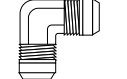
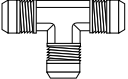
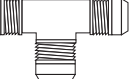
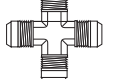
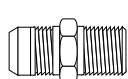
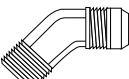
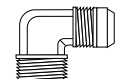
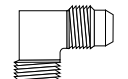
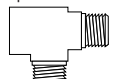
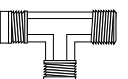

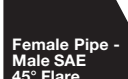
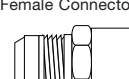
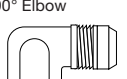

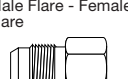

Brass Fittings/Pipe (SAE Automotive) (Continued)

Tees	1203P Union  Page G34	2203P Union  Page G34	2205P Cross  Page G34	2224P Male Branch  Page G35	2225P Street  Page G35		
	2201P Female  Page G34	2214P Street  Page G35					










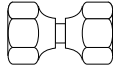

Brass Fittings/Pipe Adapters Metric

CD43 90° Elbow Male-Female BSPT-BSPP  Page G35	DD44 Pipe 90° Elbow BSPP  Page G35	F3HF Hex Nipple NPTF BSPT  Page G35	F3HG Adapter NPTF Male BSPT  Page G37	FF33 Pipe Nipples BSPT  Page G36	FF33 Unequal Pipe Nipples BSPT  Page G36	FF44 Pipe Nipples BSPP  Page G36	FG43 Reducing Connector Female-Male BSPP-BSPT  Page G36
FHG4 Adapter Male NPTF BSPP  Page G36	GG44 Pipe Connector BSPP  Page G36	GG44 Unequal Pipe Connector BSPP  Page G37	HHP3 Hollow Hex Head Plug BSPT  Page G37	HP3 Hex Plug BSPT  Page G37	KMMO04 Pipe Cross BSPP  Page G37	MMO444 Pipe Tee BSPP  Page G37	MMS443 Branch Tee Female-Male-Female BSPP-BSPT-BSPP  Page G37
MRO434 Run Tee Female-Female-Male BSPP-BSPP-BSPT  Page G37	PTR34 Pipe Thread Reducer Male-Female BSPT-BSPP  Page G38	T5HF Inch Tube Male BSPT  Page G38	T5HG Inch Tube Female BSPT  Page G38	WGG44 Bulkhead Female Union BSPP  Page G38			




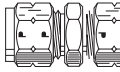
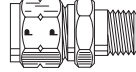
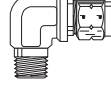
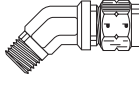
Brass Fittings/SAE 45° Flared

Unions	42F Straight  Page G28	42F Union Reducer  Page G28	155F 90° Elbow  Page G30	144F/244F Tee  Page G30	147F Cross  Page G31	660FHD Female Union  Page G31
	48F Connector  Page G28	159F 45° Elbow  Page G29	149F/249F 90° Elbow  Page G29	256F Adapter Tee  Page G29	151F Male Run Tee  Page G30	145F Male Branch Tee  Page G30
639F Seal Plug  Page G29	Female Pipe - Male SAE 45° Flare  Page G28	46F Female Connector  Page G28	150F 90° Elbow  Page G30	Reducers  Page G31	661FHD Male Flare - Female Flare  Page G31	664FHD Female Flare - Male Pipe Thread  Page G31

Brass Fittings/SAE 45° Flared (Continued)

 <p>Refrigerant Fittings</p>	<p>1F Drum Adapter</p>  <p>Page G26</p>	<p>2GF Copper Flare Gasket</p>  <p>Page G26</p>	<p>3GF Seal Bonnet</p>  <p>Page G26</p>	 <p>Nuts</p>	<p>14FL Long Forged</p>  <p>Page G26</p>	<p>14FSX Short Forged</p>  <p>Page G27</p>	<p>41FL Long</p>  <p>Page G27</p>
<p>41FS/41FX Short/Shorter</p>  <p>Page G27</p>	<p>14FSV Swivel Connector</p>  <p>Page G27</p>	<p>640F Cap Nut</p>  <p>Page G29</p>					

Brass Fittings/Vibra-Lok

<p>60VL Sleeve</p>  <p>Page G21</p>	<p>60VLV Sleeve (Viton)</p>  <p>Page G21</p>	<p>61VL Nut</p>  <p>Page G21</p>	<p>62VL Union</p>  <p>Page G21</p>	<p>68VL Male Connector</p>  <p>Page G21</p>	<p>169VL Male Elbow</p>  <p>Page G21</p>	<p>179VL 49° Elbow</p>  <p>Page G21</p>	
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Union

62PM

Tube Size	Part No.
1/8	62PM-2
5/32	62PM-5/32
3/16	62PM-3



Union

62PMT

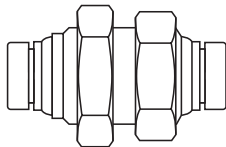
Tube Size	Part No.
1/4	62PMT-4
3/8	62PMT-6
1/2	62PMT-8
5/8	62PMT-10



Bulkhead Union

62PMTBH

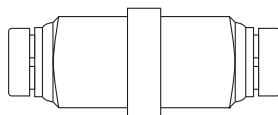
Tube Size	Part No.
1/4	62PMTBH-4
3/8	62PMTBH-6
1/2	62PMTBH-8
5/8	62PMTBH-10



Bulkhead Union

62PMTBHR*

Tube Size	Part No.
1/4	62PMTBHR-4
3/8	62PMTBHR-6
1/2	62PMTBHR-8
5/8	62PMTBHR-10

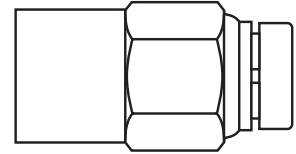


*Consult Catalog 3501-E for more information on retaining rings.

Female Connector

66PMT

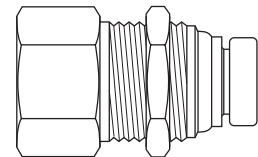
Tube Size	Pipe Thread	Part No.
1/4	1/8	66PMT-4-2
1/4	1/4	66PMT-4-4
3/8	1/8	66PMT-6-2
3/8	1/4	66PMT-6-4
3/8	3/8	66PMT-6-6
1/2	1/4	66PMT-8-4
1/2	3/8	66PMT-8-6
1/2	1/2	66PMT-8-8



Bulkhead Female Connector

66PMTBH

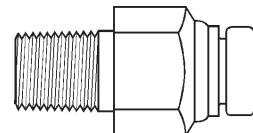
Tube Size	NPTF	Part No.
1/4	1/4-18	66PMTBH-4-4
3/8	3/8-18	66PMTBH-6-6
1/2	1/2-14	66PMTBH-8-8



Male Connector

68PM

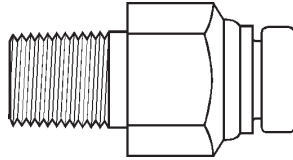
Tube Size	Pipe Thread	Part No.
1/8	1/16	68PM-2-1
1/8	1/8	68PM-2-2
5/32	1/16	68PM-5/32-1
5/32	1/8	68PM-5/32-2
3/16	1/16	68PM-3-1
3/16	1/8	68PM-3-2
3/16	1/4	68PM-3-4



Male Connector

68PMT

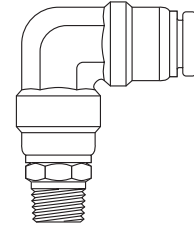
Tube Size	Pipe Thread	Part No.
1/4	1/8	68PMT-4-2
1/4	1/4	68PMT-4-4
1/4	3/8	68PMT-4-6
3/8	1/8	68PMT-6-2
3/8	1/4	68PMT-6-4
3/8	3/8	68PMT-6-6
1/2	1/4	68PMT-8-4
1/2	3/8	68PMT-8-6
1/2	1/2	68PMT-8-8
5/8	3/8	68PMT-10-6
5/8	1/2	68PMT-10-8



Male Elbow Swivel 90°

169PMT

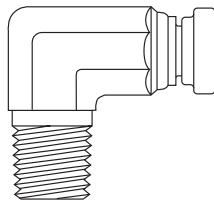
Tube Size	Pipe Thread	Part No.
1/4	1/8	169PMT-4-2
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1/4	3/8	169PMT-4-6
3/8	1/8	169PMT-6-2
3/8	1/4	169PMT-6-4
3/8	3/8	169PMT-6-6
3/8	1/2	169PMT-6-8
1/2	1/4	169PMT-8-4
1/2	3/8	169PMT-8-6
1/2	1/2	169PMT-8-8



Male Elbow

169PMNS

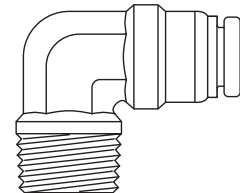
Tube Size	Pipe Thread	Part No.
1/8	1/8	169PMNS-2-2
5/32	1/8	169PMNS-5/32--2
3/16	1/8	169PMNS-3-2
3/16	1/4	169PMNS-3-4



Male Elbow Non-Swivel 90°

169PMTNS

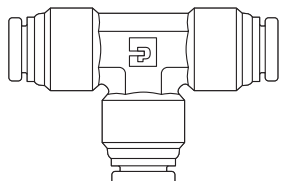
Tube Size	Pipe Thread	Part No.
1/4	1/8	169PMTNS-4-2
1/4	1/4	169PMTNS-4-4
1/4	3/8	169PMTNS-4-6
3/8	1/8	169PMTNS-6-2
3/8	1/4	169PMTNS-6-4
3/8	3/8	169PMTNS-6-6
3/8	1/2	169PMTNS-6-8
1/2	1/4	169PMTNS-8-4
1/2	3/8	169PMTNS-8-6
1/2	1/2	169PMTNS-8-8
5/8	3/8	169PMTNS-10-6
5/8	1/2	169PMTNS-10-8



Union Tee

164PMT

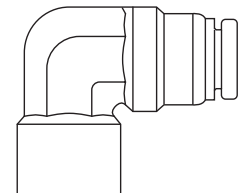
Tube Size	Part No.
1/4	164PMT-4
3/8	164PMT-6
1/2	164PMT-8



Female Elbow Non-Swivel 90°

170PMTNS

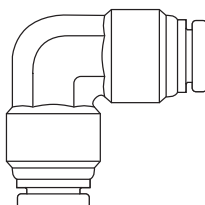
Tube Size	Pipe Thread	Part No.
1/4	1/8	170PMTNS-4-2
1/4	1/4	170PMTNS-4-4
3/8	1/8	170PMTNS-6-2
3/8	1/4	170PMTNS-6-4
3/8	3/8	170PMTNS-6-6
1/2	1/4	170PMTNS-8-4
1/2	3/8	170PMTNS-8-6
1/2	1/2	170PMTNS-8-8



Union Elbow

165PMT

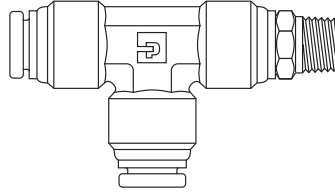
Tube Size	Part No.
1/4	165PMT-4
3/8	165PMT-6
1/2	165PMT-8



Male Run Tee Swivel

171PMT

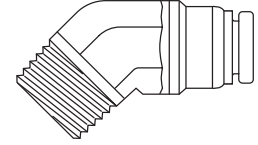
Tube Size	Pipe Thread	Part No.
1/4	1/8	171PMT-4-2
1/4	1/4	171PMT-4-4
3/8	1/4	171PMT-6-4
3/8	3/8	171PMT-6-6
1/2	1/4	171PMT-8-4
1/2	3/8	171PMT-8-6
1/2	1/2	171PMT-8-8



Male Elbow Non-Swivel 45°

179PMTNS

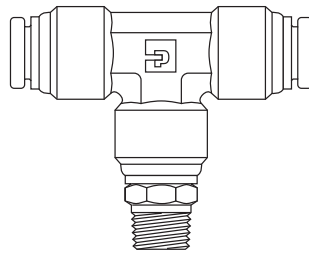
Tube Size	Pipe Thread	Part No.
1/4	1/8	179PMTNS-4-2
1/4	1/4	179PMTNS-4-4
3/8	1/8	179PMTNS-6-2
3/8	1/4	179PMTNS-6-4
3/8	3/8	179PMTNS-6-6
1/2	1/4	179PMTNS-8-4
1/2	3/8	179PMTNS-8-6
1/2	1/2	179PMTNS-8-8
5/8	3/8	179PMTNS-10-6
5/8	1/2	179PMTNS-10-8



Male Branch Tee Swivel

172PMT

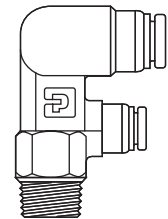
Tube Size	Pipe Thread	Part No.
1/4	1/8	172PMT-4-2
1/4	1/4	172PMT-4-4
3/8	1/8	172PMT-6-2
3/8	1/4	172PMT-6-4
3/8	3/8	172PMT-6-6
1/2	1/4	172PMT-8-4
1/2	3/8	172PMT-8-6
1/2	1/2	172PMT-8-8



Dual Port 90° Male Elbow Non-Swivel 45°

189PMT

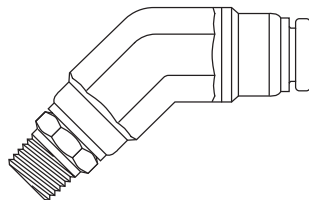
Tube Size 1	Tube Size 2	Pipe Thread	Part No.
1/4	1/4	1/4	189PMT4-4-4
3/8	1/4	3/8	189PMT6-4-6
5/8	1/4	3/8	189PMT10-4-6
5/8	3/8	3/8	189PMT10-6-6



Male Elbow Swivel 45°

179PMT

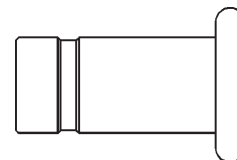
Tube Size	Pipe Thread	Part No.
1/4	1/8	179PMT-4-2
1/4	1/4	179PMT-4-4
3/8	1/8	179PMT-6-2
3/8	1/4	179PMT-6-4
3/8	3/8	179PMT-6-6
1/2	1/4	179PMT-8-4
1/2	3/8	179PMT-8-6
1/2	1/2	179PMT-8-8



Push-to-Connect Fitting Plug

639PMT

Tube Size	Part No.
1/4	639PMT-4
3/8	639PMT-6
1/2	639PMT-8



Diesel Fuel Fittings

Advantages

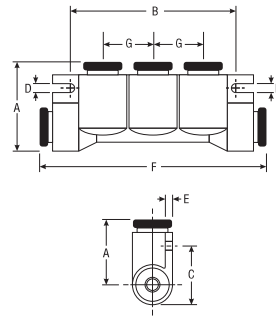
The Prestomatic Diesel Fuel Fitting is designed for use in truck diesel fuel systems. Each Fitting is 100% leak tested before shipment. No special tools are required to assemble. Just bottom the tubing in the fitting body for a positive seal.

Application

Use with Parker Parflex Fuel SAE J844 type A & B nylon tubing. Designed for diesel fuel system applications. Consult the factory with any questions regarding special product applications. Prior to use, all applications should be carefully tested through the range of conditions which may be encountered.

Manifold

23M

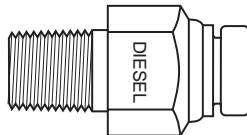


A	B (Max.)	B (Min.)	C	D	E	F	G	H	Part No.
1.60	3.71	3.20	1.20	.26	.16	4.30	.90	1.15	23M-6-4
1.60	3.71	3.20	1.20	.26	.16	4.30	.90	1.19	23M-6-6

Male Connector

VS68DF

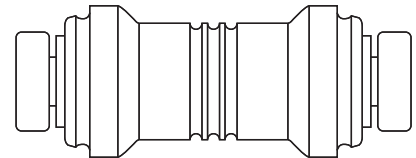
Tube Size	Pipe Thread	Part No.
1/2	1/4	VS68DF-8-4
1/2	3/8	VS68DF-8-6
1/2	1/2	VS68DF-8-8
5/8	3/8	VS68DF-10-6
5/8	1/2	VS68DF-10-8



Composite Union

32PM

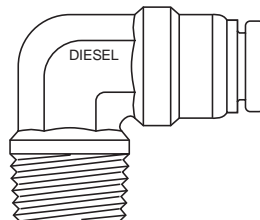
Tube Size	Part No.
1/8	32PM-2
5/32	32PM-5/32



Male Connector

VS169DFNS

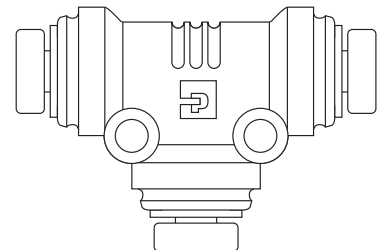
Tube Size	Pipe Thread	Part No.
1/2	1/4	VS169DFNS-8-4
1/2	3/8	VS169DFNS-8-6
1/2	1/2	VS169DFNS-8-8
5/8	3/8	VS169DFNS-10-8



Composite Union Tee

364PM

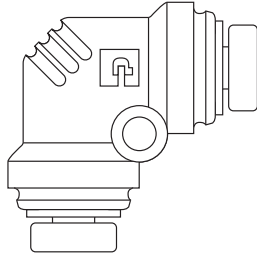
Tube Size	Part No.
1/8	364PM-2
5/32	364PM-5/32



Composite Union Elbow

365PM

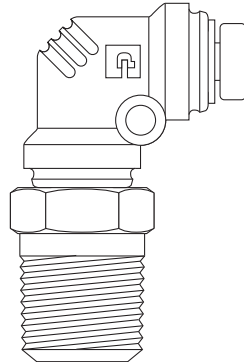
Tube Size	Part No.
1/8	365PM-2
5/32	365PM-5/32



Composite Elbow Swivel 90°

369PM

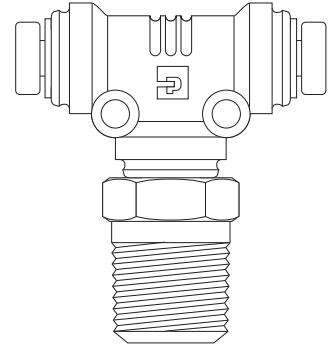
Tube Size	Straight Thread	Part No.
1/8	1/8-27	369PM-2-2
1/8	1/4-18	369PM-2-4
5/32	1/8-27	369PM-5/32-2
5/32	1/4-18	369PM-5/32-4



Composite Male Branch Tee Swivel

372PM

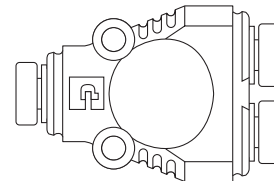
Tube Size	NPTF	Part No.
1/8	1/8-27	372PM-2-2
1/8	1/4-18	372PM-2-4
5/32	1/8-27	372PM-5/32-2
5/32	1/4-18	372PM-5/32-4



Composite Union Y Connector

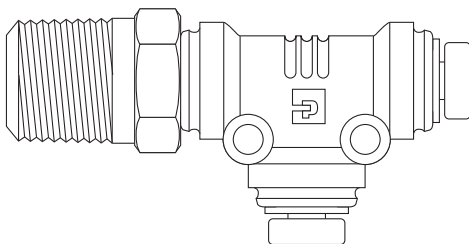
362PM

Tube Size	Part No.
1/8	362PM-2
5/32	362PM-5/32



Composite Male Run Tee Swivel

371PM

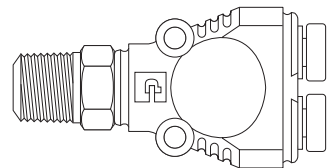


Tube Size	NPTF	Part No.
1/8	1/8-27	371PM-2-2
1/8	1/4-18	371PM-2-4
5/32	1/8-27	371PM-5/32-2
5/32	1/4-18	371PM-5/32-4

Composite Union Y Male Swivel Connector

368PM

Tube Size	NPTF	Part No.
1/8	1/8-27	368PM-2-2
1/8	1/4-18	368PM-2-4
5/32	1/8-27	368PM-5/32-2
5/32	1/4-18	368PM-5/32-4



Union

HPMTB

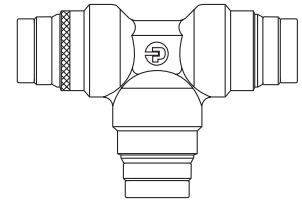
Tube Size (mm)	Part No.
6	HPMTB6
8	HPMTB8
10	HPMTB10
12	HPMTB12



Union Tee

JPMTB

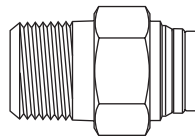
Tube Size 1 (mm)	Tube Size 2 (mm)	Part No.
6	6	JPMTB6
8	8	JPMTB8
12	12	JPMTB12
12	6	JPMTB12-12-6
12	8	JPMTB12-12-8



Male Connector BSPT

F3PMTB

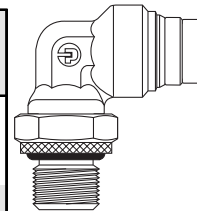
Tube Size (mm)	BSPT Thread	Part No.
10	1/4	F3PMTB10-1/4
10	1/2	F3PMTB10-1/2
12	1/2	F3PMTB12-1/2



Male Elbow Metric Straight Thread

C8UPMTB

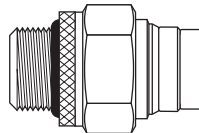
Tube Size (mm)	Metric Thread	Part No.
6	M10x1	C8UPMTB6-M10
6	M12x1.5	C8UPMTB6-M12
6	M16x1.5	C8UPMTB6-M16
6	M22x1.5	C8UPMTB6-M22
8	M12x1.5	C8UPMTB8-M12
8	M14x1.5	C8UPMTB8-M14
8	M16x1.5	C8UPMTB8-M16
8	M22x1.5	C8UPMTB8-M22
10	M12x1.5	C8UPMTB10-M12
10	M16x1.5	C8UPMTB10-M16
10	M22x1.5	C8UPMTB10-M22
12	M16x1.5	C8UPMTB12-M16
12	M22x1.5	C8UPMTB12-M22
16	M16x1.5	C8UPMTB16-M16
16	M22x1.5	C8UPMTB16-M22



Male Connector Metric Straight Thread

F8UPMTB

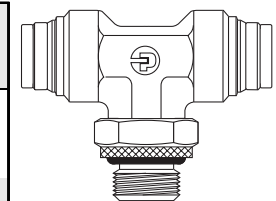
Tube Size (mm)	Metric Thread	Part No.
6	M10x1	F8UPMTB6-M10
6	M12x1.5	F8UPMTB6-M12
6	M14x1.5	F8UPMTB6-M14
6	M16x1.5	F8UPMTB6-M16
6	M22x1.5	F8UPMTB6-M22
8	M10x1	F8UPMTB8-M10
8	M12x1.5	F8UPMTB8-M12
8	M14x1.5	F8UPMTB8-M14
8	M16x1.5	F8UPMTB8-M16
8	M22x1.5	F8UPMTB8-M22
10	M10x1	F8UPMTB10-M10
10	M12x1.5	F8UPMTB10-M12
10	M14x1.5	F8UPMTB10-M14
10	M16x1.5	F8UPMTB10-M16
10	M22x1.5	F8UPMTB10-M22
12	M12x1.5	F8UPMTB12-M12
12	M14x1.5	F8UPMTB12-M14
12	M16x1.5	F8UPMTB12-M16
12	M22x1.5	F8UPMTB12-M22
16	M16x1.5	F8UPMTB16-M16
16	M22x1.5	F8UPMTB16-M22



Male Branch Tee Swivel Metric Straight Thread

S8UPMTB

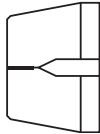
Tube Size (mm)	Metric Thread	Part No.
8	M16x1.5	S8UPMTB8-M16
12	M16x1.5	S8UPMTB12-M16
12	M22x1.5	S8UPMTB12-M22
16	M22x1.5	S8UPMTB16-M22



Sleeve

60TF

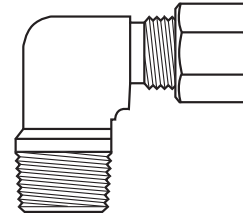
Tube Size	Part No.
1/8	60TF-2
5/32	60TF-5/32



Male Elbow

269TF

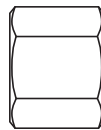
Tube Size	Part No.
1/8	269TF-2-2
5/32	269TF-5/32-2



Nut

61TF

Tube Size	Part No.
1/8	61TF-2
5/32	61TF-5/32



Sleeve

60AB

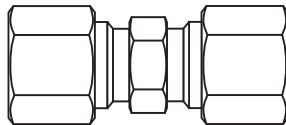
Tube Size	Part No.
1/4	60AB-4
3/8	60AB-6
1/2	60AB-8
5/8	60AB-10
3/4	60AB-12
1	60AB-16



Union

62TF

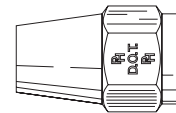
Tube Size	Part No.
1/8	62TF-2
5/32	62TF-5/32



Nut

61AB

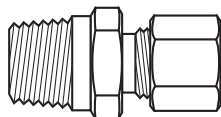
Tube Size	Straight Thread	Part No.
1/4	7/16-24	61AB-4
3/8	17/32-24	61AB-6
1/2	11/16-20	61AB-8
5/8	13/16-18	61AB-10
3/4	1-18	61AB-12
1	1-1/4-16	61AB-16



Male Connector

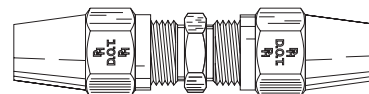
68TF

Tube Size	Part No.
1/8	68TF-2-1
1/8	68TF-2-2
5/32	68TF-5/32-1
5/32	68TF-5/32-2



Union

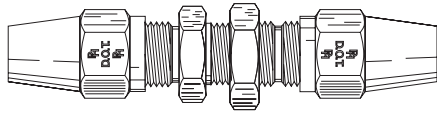
62AB



Tube Size	Straight Thread	Part No.
1/4	7/16-24	62AB-4
3/8	17/32-24	62AB-6
1/2	11/16-20	62AB-8
5/8	13/16-18	62AB-10
3/4	1-18	62AB-12

Bulkhead Union

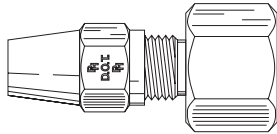
62ABH



Tube Size	Straight Thread	Part No.
1/4	7/16-24	62ABH-4
3/8	17/32-24	62ABH-6
1/2	11/16-20	62ABH-8

Female Connector

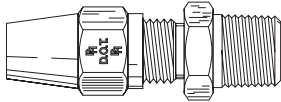
66AB



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	66AB-4-2
1/4	1/4	7/16-24	66AB-4-4
3/8	1/8	17/32-24	66AB-6-2
3/8	1/4	17/32-24	66AB-6-4
3/8	3/8	17/32-24	66AB-6-6
1/2	3/8	11/16-20	66AB-8-6
5/8	3/8	13/16-18	66AB-10-6
5/8	1/2	13/16-18	66AB-10-8

Male Connector

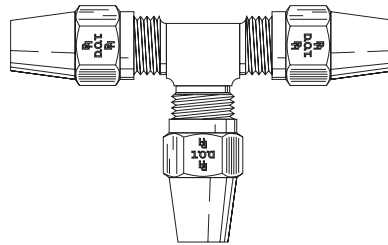
VS68AB



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS68AB-4-2
1/4	1/4	7/16-24	VS68AB-4-4
1/4	3/8	7/16-24	VS68AB-4-6
3/8	1/8	17/32-24	VS68AB-6-2
3/8	1/4	17/32-24	VS68AB-6-4
3/8	3/8	17/32-24	VS68AB-6-6
3/8	1/2	17/32-24	VS66AB-6-8
1/2	1/4	11/16-20	VS68AB-8-4
1/2	3/8	11/16-20	VS68AB-8-6
5/8	3/8	13/16-18	VS68AB-10-6
5/8	1/2	13/16-18	VS68AB-10-8
3/4	1/2	1-18	VS68AB-12-8
3/4	3/4	1-18	VS68AB-12-12
1	3/4	1-1/4-16	VS68AB-16-12

Union Tee

264AB

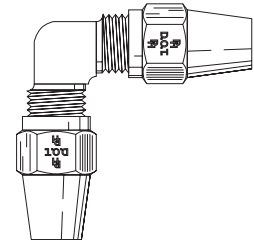


Tube Size	Straight Thread	Part No.
1/4	7/16-24	264-AB-4
3/8	17/32-24	264AB-6
1/2	11/16-20	264AB-8
5/8	13/16-18	264AB-10

Union Elbow

265AB

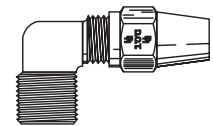
Tube Size	Straight Thread	Part No.
1/4	7/16-24	265-AB-4
3/8	17/32-24	265AB-6
1/2	11/16-20	265AB-8
5/8	13/16-18	265AB-10



Male Elbow

VS269AB

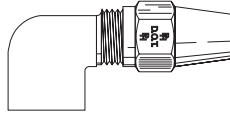
Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS269AB-4-2
1/4	1/4	7/16-24	VS269AB-4-4
1/4	3/8	7/16-24	VS269AB-4-6
3/8	1/8	17/32-24	VS269AB-6-2
3/8	1/4	17/32-24	VS269AB-6-4
3/8	3/8	17/32-24	VS269AB-6-6
3/8	1/2	17/32-24	VS269AB-6-8
1/2	1/4	11/16-20	VS269AB-8-4
1/2	3/8	11/16-20	VS269AB-8-6
1/2	1/2	11/16-20	VS269AB-8-8
5/8	3/8	13/16-18	VS269AB-10-6
5/8	1/2	13/16-18	VS269AB-10-8
3/4	1/2	1-18	VS269AB-12-8
3/4	3/4	1-18	VS269AB-12-12



Female Elbow

270AB

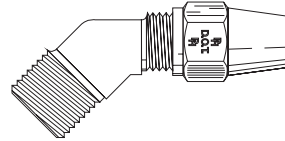
Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	270AB-4-2
1/4	1/4	7/16-24	270AB-4-4
3/8	1/8	17/32-24	270AB-6-2
3/8	1/4	17/32-24	270AB-6-4
3/8	3/8	17/32-24	270AB-6-6
1/2	3/8	11/16-20	270AB-8-6
1/2	1/2	11/16-20	270AB-8-8
5/8	1/2	13/16-18	270AB-10-8



45° Elbow

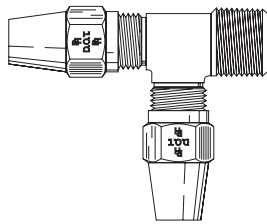
VS279AB

Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS279AB-4-2
1/4	1/4	7/16-24	VS279AB-4-4
3/8	1/8	17/32-24	VS279AB-6-2
3/8	1/4	17/32-24	VS279AB-6-4
3/8	3/8	17/32-24	VS279AB-6-6
3/8	1/2	17/32-24	VS279AB-6-8
1/2	3/8	11/16-20	VS279AB-8-6
1/2	1/2	11/16-20	VS279AB-8-8
5/8	3/8	13/16-18	VS279AB-10-6
5/8	1/2	13/16-18	VS279AB-10-8
3/4	1/2	1-18	VS279AB-12-8



Male Run Tee

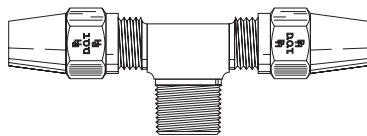
VS271AB



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS271AB-4-2
1/4	1/4	7/16-24	VS271AB-4-4
3/8	1/4	17/32-24	VS271AB-6-4
3/8	3/8	17/32-24	VS271AB-6-6
1/2	3/8	11/16-20	VS271AB-8-6
1/2	1/2	11/16-20	VS271AB-8-8
5/8	1/2	13/16-18	VS271AB-10-8

Male Branch Tee

VS272AB



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS272AB-4-2
1/4	1/4	7/16-24	VS272AB-4-4
3/8	1/8	17/32-24	VS272AB-6-2
3/8	1/4	17/32-24	VS272AB-6-4
3/8	3/8	17/32-24	VS272AB-6-6
1/2	3/8	11/16-20	VS272AB-8-6
1/2	1/2	11/16-20	VS272AB-8-8
5/8	1/2	13/16-18	VS272AB-10-8

Sleeve

60NTA

Tube Size	Part No.
3/16	60NTA-3*
1/4	60NTA-4
3/8	60NTA-6
1/2	60NTA-8
5/8	60NTA-10
3/4	60NTA-12



*Meets D.O.T. FMVSS 571.106 specification. No application SAE specification for this tube size.

Nut

61NTA

Tube Size	Straight Thread	Part No.
3/16	5/16-24	61NTA-3*
1/4	7/16-24	61NTA-4
3/8	17/32-24	61NTA-6
1/2	11/16-20	61NTA-8
5/8	13/16-18	61NTA-10
3/4	1-18	61NTA-12

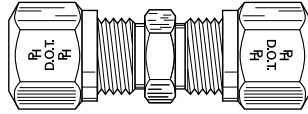


*Meets D.O.T. FMVSS 571.106 specification. No application SAE specification for this tube size.

Union

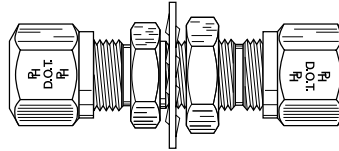
62NTA

Tube Size	Straight Thread	Part No.
1/4	7/16-24	62NTA-4
3/8	17/32-24	62NTA-6
1/2	11/16-20	62NTA-8
5/8	13/16-18	62NTA-10
3/4	1-18	62NTA-12



Bulkhead Union

62NBH (NTA)



Tube Size	Straight Thread	Part No.
3/16	5/16-24	62NBH-3
1/4	7/16-24	62NBH-4
3/8	17/32-24	62NBH-6
1/2	11/16-20	62NBH-8
5/8	13/16-18	62NBH-10

Stainless Steel Insert

63NTA

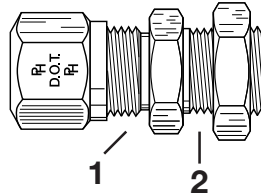
(For SAE J844 Tubing)

Tube Size	O.D.	Part No.
1/4	.163	63NTA-4
3/8	.245	63NTA-6
1/2	.370	63NTA-8
5/8	.434	63NTA-10
3/4	.559	63NTA-12



Bulkhead Union

66NBH

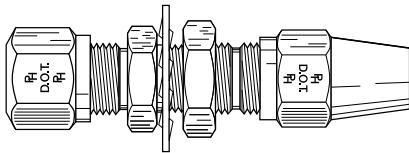


Tube Size	Pipe Thread	1 Straight Thread	2 Straight Thread	Part No.
1/2	3/8	11/16-20	7/8-14	66NBH-8-6

Bulkhead Union

62ANBH

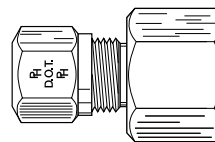
(NTA & Air Brake)



Tube Size	O.D.	Part No.
1/4	7/16-24	62ANBH-4
3/8	17/32-24	62ANBH-6
1/2	11/16-20	62ANBH-8

Female Connector

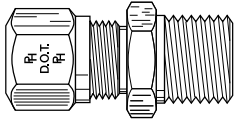
66NTA



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	66NTA-4-2
1/4	1/4	7/16-24	66NTA-4-4
3/8	1/8	17/32-24	66NTA-6-2
3/8	1/4	17/32-24	66NTA-6-4
3/8	3/8	17/32-24	66NTA-6-6
1/2	3/8	11/16-20	66NTA-8-6
1/2	1/2	11/16-20	66NTA-8-8
5/8	3/8	13/16-18	66NTA-10-6
5/8	1/2	13/16-18	66NTA-10-8

Male Connector

VS68NTA

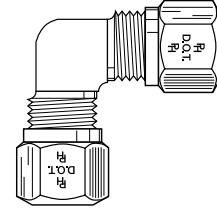


Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/16	5/16-24	VS68NTA-3-1
3/16	1/8	5/16-24	VS68NTA-3-2*
3/16	1/4	5/16-24	VS68NTA-3-4*
1/4	1/8	7/16-24	VS68NTA-4-2
1/4	1/4	7/16-24	VS68NTA-4-4
1/4	3/8	7/16-24	VS68NTA-4-6
3/8	1/8	17/32-24	VS68NTA-6-2
3/8	1/4	17/32-24	VS68NTA-6-4
3/8	3/8	17/32-24	VS68NTA-6-6
3/8	1/2	17/32-24	VS68NTA-6-8
1/2	1/4	11/16-20	VS68NTA-8-4
1/2	3/8	11/16-20	VS68NTA-8-6
1/2	1/2	11/16-20	VS68NTA-8-8
5/8	3/8	13/16-18	VS68NTA-10-6
5/8	1/2	13/16-18	VS68NTA-10-8
3/4	1/2	1-18	VS68NTA-12-8
3/4	3/4	1-18	VS68NTA-12-12

Union Elbow

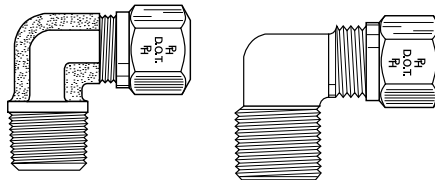
265NTA

Tube Size	Straight Thread	Part No.
1/4	7/16-24	265NTA-4
3/8	17/32-24	265NTA-6
1/2	11/16-20	265NTA-8
5/8	13/16-18	265NTA-10



Male Elbow

VS269NTA

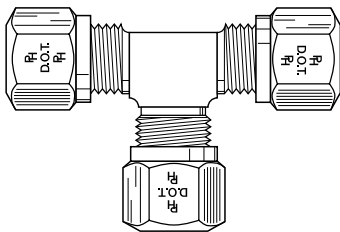


Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/8	5/16-24	VS269NTA-3-2
3/16	1/4	5/16-24	VS269NTA-3-4*
1/4	1/8	7/16-24	VS269NTA-4-2
1/4	1/4	7/16-24	VS269NTA-4-4
1/4	3/8	7/16-24	VS269NTA-4-6
3/8	1/8	17/32-24	VS269NTA-6-2
3/8	1/4	17/32-24	VS269NTA-6-4
3/8	3/8	17/32-24	VS269NTA-6-6
3/8	1/2	17/32-24	VS269NTA-6-8
1/2	1/4	11/16-20	VS269NTA-8-4
1/2	3/8	11/16-20	VS269NTA-8-6
1/2	1/2	11/16-20	VS269NTA-8-8
5/8	3/8	13/16-18	VS269NTA-10-6
5/8	1/2	13/16-18	VS269NTA-10-8
3/4	1/2	1-18	VS269NTA-12-8
3/4	3/4	1-18	VS269NTA-12-12

*Meets DOT FMVSS 571.106 specification. No applicable SAE specification for this tube size.

Union Tee

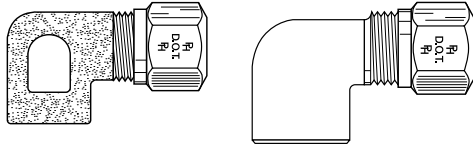
264NTA



Tube Size	Straight Thread	Part No.
1/4	7/16-24	264NTA-4
3/8	17/32-24	264NTA-6
1/2	11/16-20	264NTA-8
5/8	13/16-18	264NTA-10

Female Elbow

270NTA

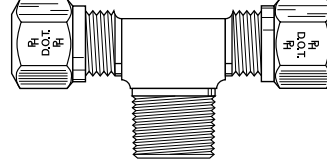


Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/8	5/16-24	270NTA-3-2*
1/4	1/8	7/16-24	270NTA-4-2
1/4	1/4	7/16-24	270NTA-4-4
3/8	1/8	17/32-24	270NTA-6-2
3/8	1/4	17/32-24	270NTA-6-4
3/8	3/8	17/32-24	270NTA-6-6
1/2	3/8	11/16-20	270NTA-8-6
1/2	1/2	11/16-20	270NTA-8-8
5/8	1/2	13/16-18	270NTA-10-8

*Meets DOT FMVSS 571.106 specification. No applicable SAE specification for this tube size.

Male Branch Tee

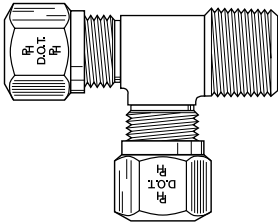
VS272NTA



Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/8	5/16-24	VS272NTA-3-2
1/4	1/8	7/16-24	VS272NTA-4-2
1/4	1/4	7/16-24	VS272NTA-4-4
3/8	1/8	17/32-24	VS272NTA-6-2
3/8	1/4	17/32-24	VS272NTA-6-4
3/8	3/8	17/32-24	VS272NTA-6-6
1/2	1/4	11/16-20	VS272NTA-8-4
1/2	3/8	11/16-20	VS272NTA-8-6
1/2	1/2	11/16-20	VS272NTA-8-8
5/8	1/2	13/16-18	VS272NTA-10-8

Male Run Tee

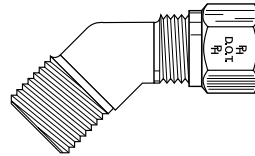
VS271NTA



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS271NTA-4-2
1/4	1/4	7/16-24	VS271NTA-4-4
3/8	1/4	17/32-24	VS271NTA-6-4
3/8	3/8	17/32-24	VS271NTA-6-6
1/2	3/8	11/16-20	VS271NTA-8-6
1/2	1/2	11/16-20	VS271NTA-8-8
5/8	1/2	13/16-18	VS271NTA-10-8

45° Elbow

VS279NTA



Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	VS279NTA-4-2
1/4	1/4	7/16-24	VS279NTA-4-4
3/8	1/8	17/32-24	VS279NTA-6-2
3/8	1/4	17/32-24	VS279NTA-6-4
3/8	3/8	17/32-24	VS279NTA-6-6
3/8	1/2	17/32-24	VS279NTA-6-8
1/2	3/8	11/16-20	VS279NTA-8-6
1/2	1/2	11/16-20	VS279NTA-8-8
5/8	3/8	13/16-18	VS279NTA-10-6
5/8	1/2	13/16-18	VS279NTA-10-8
3/4	1/2	1-18	VS279NTA-12-8

Sleeve

60VL

Tube Size	Part No.
3/16	60VL-3
1/4	60VL-4
5/16	60VL-5
3/8	60VL-6
1/2	60VL-8
5/8	60VL-10



Sleeve (Viton)

60VLV

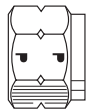
Tube Size	Part No.
3/16	60VLV-3
1/4	60VLV-4
5/16	60VLV-5
3/8	60VLV-6
1/2	60VLV-8
5/8	60VLV-10



Nut

61VL

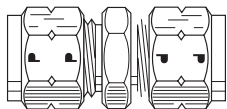
Straight Thread	Tube Size	Part No.
7/16-24	3/16	61VL-3
1/2-24	1/4	61VL-4
9/16-24	5/16	61VL-5
5/8-24	3/8	61VL-6
13/16-18	1/2	61VL-8
1-18	5/8	61VL-10



Union

62VL

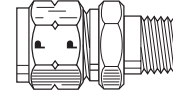
Tube Size	Part No.
1/4	62VL-4
3/8	62VL-6
1/2	62VL-8



Male Connector

68VL

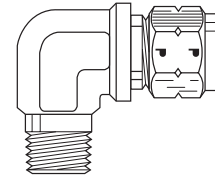
Pipe Thread	Tube Size	Part No.
1/8	3/16	68VL-3-2
1/8	1/4	68VL-4-2
1/4	1/4	68VL-4-4
1/4	5/16	68VL-5-4
1/4	3/8	68VL-6-4
3/8	3/8	68VL-6-6
3/8	1/2	68VL-8-6
1/2	5/8	68VL-10-8



Male Elbow

169VL

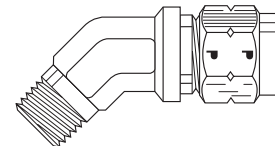
Pipe Thread	Tube Size	Part No.
1/8	3/16	169VL-3-2
1/8	1/4	169VL-4-2
1/4	1/4	169VL-4-4
1/4	5/16	169VL-5-4
1/8	3/8	169VL-6-2
1/4	3/8	169VL-6-4
3/8	3/8	169VL-6-6
3/8	1/2	169VL-8-6
1/2	1/2	169VL-8-8
1/2	5/8	169VL-10-8



45° Elbow

179VL

Pipe Thread	Tube Size	Part No.
1/8	1/4	179VL-4-2
1/4	3/8	179VL-6-4



Sleeve

60C

SAE060115

Tube Size	Part No.
1/8	60C-2
3/16	60C-3
1/4	60C-4
5/16	60C-5
3/8	60C-6
7/16	60C-7
1/2	60C-8
5/8	60C-10
3/4	60C-12
7/8	60C-14

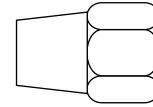


Long Nut

61CL

SAE 060111

Straight Thread	Tube Size	Part No.
7/16-24	1/4	61CL-4
1/2-24	5/16	61CL-5
9/16-24	3/8	61CL-6
11/16-20	1/2	61CL-8
13/16-18	5/8	61CL-10
1-18	3/4	61CL-12



Delrin Sleeve

60PT

Plastic Tube O.D.	Tube Wall	Part No.
1/4	.040	60PT-4
5/16	.062	60PT-5
3/8	.062	60PT-6
1/2	.062	60PT-8
5/8	.062	60PT-10
3/4	.062	60PT-12

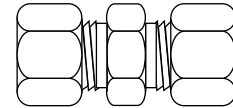


Union

62C

SAE 060111

Straight Thread	Tube Size	Part No.
5/16-24	1/8	62C-2
3/8-24	3/16	62C-3
7/16-24	1/4	62C-4
1/2-24	5/16	62C-5
9/16-24	3/8	62C-6
5/8-24	7/16	62C-7
11/16-20	1/2	62C-8
13/16-18	5/8	62C-10
1-18	3/4	62C-12
1-1/8-18	7/8	62C-14

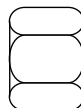


Nut

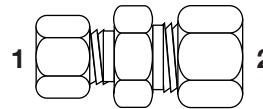
61C

SAE 060110

Straight Thread	Tube Size	Part No.
5/16-24	1/8	61C-2
3/8-24	3/16	61C-3
7/16-24	1/4	61C-4
1/2-24	5/16	61C-5
9/16-24	3/8	61C-6
5/8-24	7/16	61C-7
11/16-20	1/2	61C-8
13/16-18	5/8	61C-10
1-18	3/4	61C-12
1-1/8-18	7/8	61C-14



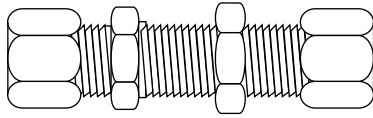
Reducers



1 Straight Thread	2 Straight Thread	1 Tube Size	2 Tube Size	Part No.
3/8-24	7/16-24	3/16	1/4	62C-4-3
7/16-24	9/16-24	1/4	3/8	62C-6-4
9/16-24	11/16-20	3/8	1/2	62C-8-6
9/16-24	13/16-18	3/8	5/8	62C-10-6

Bulkhead Union

62CBH



Straight Thread	Tube Size	Part No.
7/16-24	1/4	62CBH-4
9/16-24	3/8	62CBH-6

Brass Insert

63PT

(For Industrial Grade Plastic Tubing)

Tube O.D.	Part No.
1/8	63PT-2-16
1/8	63PT-2-23
1/8	63PT-2-32
3/16	63PT-3-25
3/16	63PT-3-40
1/4	63PT-4-40
5/16	63PT-5-40
5/16	63PT-5-62
3/8	63PT-6-62
1/2	63PT-8-62
5/8	63PT-10-62



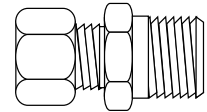
For Plastic Tubing
Delrin sleeve 60PT and Brass Insert 63PT converts standard compression fittings for use with industrial grades of thermoplastic tubing.

Male Connector

68C

SAE 060102 BA

Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	68C-2-2
3/8-24	1/8	3/16	68C-3-2
3/8-24	1/4	3/16	68C-3-4
7/16-24	1/8	1/4	68C-4-2
7/16-24	1/4	1/4	68C-4-4
7/16-24	3/8	1/4	68C-4-6
7/16-24	1/2	1/4	68C-4-8
1/2-24	1/8	5/16	68C-5-2
1/2-24	1/4	5/16	68C-5-4
9/16-24	1/8	3/8	68C-6-2
9/16-24	1/4	3/8	68C-6-4
9/16-24	3/8	3/8	68C-6-6
9/16-24	1/2	3/8	68C-6-8
5/8-24	1/4	7/16	68C-7-4
11/16-20	1/4	1/2	68C-8-4
11/16-20	3/8	1/2	68C-8-6
11/16-20	1/2	1/2	68C-8-8
13/16-18	3/8	5/8	68C-10-6
13/16-18	1/2	5/8	68C-10-8
13/16-18	3/4	5/8	68C-10-12
1-18	1/2	3/4	68C-12-8
1-18	3/4	3/4	68C-12-12
1-1/8-18	3/4	7/8	68C-14-12

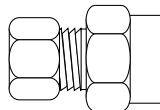


Female Connector

66C

SAE 060103 BA

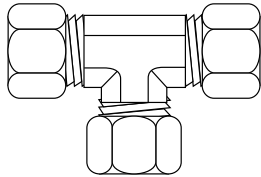
Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	66C-2-2
3/8-24	1/8	3/16	66C-3-2
3/8-24	1/4	3/16	66C-3-4
7/16-24	1/8	1/4	66C-4-2
7/16-24	1/4	1/4	66C-4-4
1/2-24	1/8	5/16	66C-5-2
1/2-24	1/4	5/16	66C-5-4
9/16-24	1/8	3/8	66C-6-2
9/16-24	1/4	3/8	66C-6-4
9/16-24	1/4	3/8	66C-6-6
9/16-24	1/2	3/8	66C-6-8
11/16-20	1/4	1/2	66C-8-4
11/16-20	3/8	1/2	66C-8-6
11/16-20	1/2	1/2	66C-8-8
13/16-18	1/2	5/8	66C-10-8



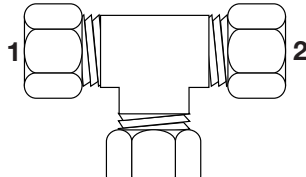
Union Tee

164C-264C

SAE 060401 BA



164C



3
264C

Straight Thread	Tube Size	Part No.
5/16-24	1/8	164C-2
3/8-24	3/16	264C-3
7/16-24	1/4	164C-4
7/16-24	1/4	264C-4
1/2-24	5/16	164C-5
9/16-24	3/8	164C-6
11/16-20	1/2	164C-8
13/16-18	5/8	164C-10

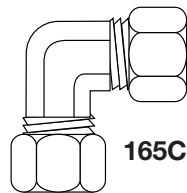
Tube Size 1	Tube Size 2	Tube Size 3	Part No.
3/8	1/4	1/4	164C-6-4-4
3/8	3/8	1/4	164C-6-6-4
1/2	1/2	3/8	164C-8-8-6

Union Elbow

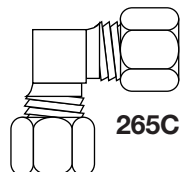
165C-265C

SAE 060201 BA

Straight Thread	Tube Size	Part No.
5/16-24	1/8	165C-2
3/8-24	3/16	165C-3
7/16-24	1/4	165C-4
7/16-24	1/4	265C-4
1/2-24	5/16	165C-5
9/16-24	3/8	165C-6
11/16-20	1/2	165C-8
13/16-18	5/8	165C-10



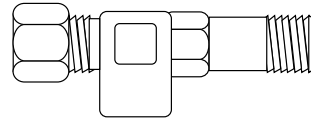
165C



265C

Compression Gage Tee

168C



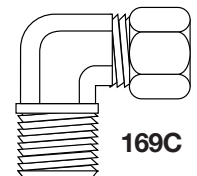
Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-24	1/8	1/4	168C-4-2

Male Elbow

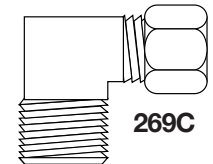
169C-269C

SAE 060202

Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	269C-2-2
3/8-24	1/8	3/16	169C-3-2
3/8-24	1/8	3/16	269C-3-2
3/8-24	1/4	3/16	169C-3-4
7/16-24	1/8	1/4	169C-4-2
7/16-24	1/8	1/4	269C-4-2
7/16-24	1/4	1/4	169C-4-4
7/16-24	1/4	1/4	269C-4-4
7/16-24	3/8	1/4	169C-4-6
1/2-24	1/8	5/16	169C-5-2
1/2-24	1/8	5/16	269C-5-2
1/2-24	1/4	5/16	169C-5-4
1/2-24	1/4	5/16	269C-5-4
1/2-24	3/8	5/16	169C-5-6
9/16-24	1/8	3/8	169C-6-2
9/16-24	1/8	3/8	269C-6-2
9/16-24	1/4	3/8	169C-6-4
9/16-24	1/4	3/8	269C-6-4
9/16-24	3/8	3/8	169C-6-6
9/16-24	3/8	3/8	269C-6-6
9/16-24	1/2	3/8	169C-6-8
11/16-20	1/4	1/2	169C-8-4
11/16-20	3/8	1/2	169C-8-6
13/16-18	3/8	5/8	169C-10-6
13/16-18	1/2	5/8	169C-10-8
1-18	1/2	3/4	169C-12-8
1-18	3/4	3/4	169C-12-12



169C



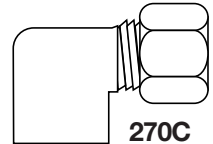
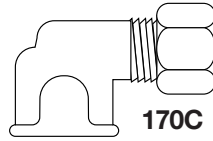
269C

Female Elbow

170C-270C

SAE 060203 BA

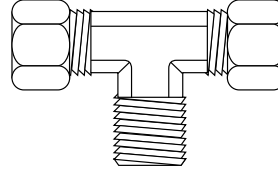
Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	170C-2-2
7/16-24	1/8	1/4	170C-4-2
7/16-24	1/8	1/4	270C-4-2
7/16-24	1/4	1/4	170C-4-4
9/16-24	1/4	3/8	170C-6-4
9/16-24	3/8	3/8	170C-6-6
11/16-20	3/8	1/2	170C-8-6



Male Branch Tee

172C

SAE 060425 BA

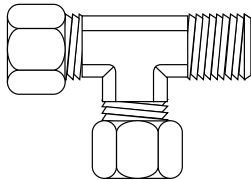


Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	172C-2-2
3/8-24	1/8	3/16	172C-3-2
7/16-24	1/8	1/4	172C-4-2
7/16-24	1/4	1/4	172C-4-4
9/16-24	1/8	3/8	172C-6-2
9/16-24	1/4	3/8	172C-6-4
9/16-24	3/8	3/8	172C-6-6
11/16-20	3/8	1/2	172C-8-6

Male Run Tee

171C

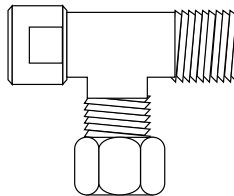
SAE 060424 BA



Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	171C-2-2
3/8-24	1/8	3/16	171C-3-2
7/16-24	1/8	1/4	171C-4-2
7/16-24	1/4	1/4	171C-4-4
9/16-24	1/4	3/8	171C-6-4

Adapter Tee

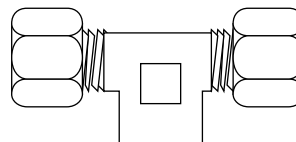
176C



Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-24	1/8	1/4	176C-4-2

Female Branch Tee

177C



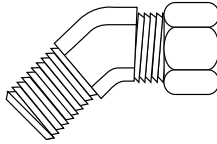
Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-24	1/8	1/4	177C-4-2

45° Elbow

179C

Compression to Male Pipe

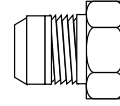
Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-24	1/8	1/4	179C-4-2
7/16-24	1/4	1/4	179C-4-4
9/16-24	1/8	3/8	179C-6-2
9/16-24	1/4	3/8	179C-6-4
9/16-24	3/8	3/8	179C-6-6
11/16-24	3/8	1/2	179C-8-6



Refrigerant Drum Adapter

1F-4

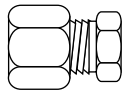
Pipe Thread	Tube Size	Part No.
1/2	1/4	1F-4-8
3/4	1/4	1F-4-12



Seal Plug

639C

Straight Thread	Tube Size	Part No.
7/16-24	1/4	639C-4



Copper Flare Gasket

2GF

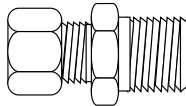
Tube Size	Part No.
3/16	2GF-3
1/4	2GF-4
5/16	2GF-5
3/8	2GF-6
1/2	2GF-8
5/8	2GF-10
3/4	2GF-12



Straight Through Tank Fitting

682C

Straight Thread	Pipe Thread	Tube Size	Part No.
9/16-24	3/8	3/8	682C-6-6
11/16-20	1/2	1/2	682C-8-8



Seal Bonnet

3GF

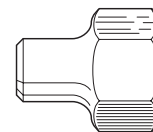
Tube Size	Part No.
3/16	3GF-3
1/4	3GF-4
5/16	3GF-5
3/8	3GF-6
1/2	3GF-8
5/8	3GF-10
3/4	3GF-12



Long Forged Nut

14FL

Straight Thread	Tube Size	Part No.
7/16-20	1/4	14FL-4
5/8-18	3/8	14FL-6
3/4-16	1/2	14FL-8
7/8-14	5/8	14FL-10



Short Forged Nut

14FSX

Straight Thread	Tube Size	Part No.
7/16-20	1/4	14FSX-4
1/2-20	5/16	14FSX-5
5/8-18	3/8	14FSX-6
3/4-16	1/2	14FSX-8
7/8-14	5/8	14FSX-10
1-1/16-14	3/4	14FSX-12



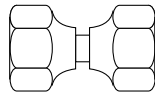
Reducing Nuts

Straight Thread	Tube Size	Part No.
5/8-18	3/8 to 1/4	41FS-6-4
3/4-16	1/2 to 3/8	41FS-8-6
7/8-14	5/8 to 1/2	41FS-10-8

Swivel Nut Valve Connector

14FSV

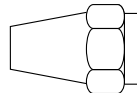
Straight Thread	Tube Size	Part No.
7/16-20	1/4	14FSV-4
5/8-18	3/8	14FSV-6
3/4-16	1/2	14FSV-8
7/8-14	5/8	14FSV-10



Long Nut

41FL

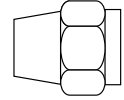
Straight Thread	Tube Size	Part No.
5/16-24	1/8	41FL-2
3/8-24	3/16	41FL-3
7/16-20	1/4	41FL-4
1/2-20	5/16	41FL-5
5/8-18	3/8	41FL-6
3/4-16	1/2	41FL-8
7/8-14	5/8	41FL-10
1-1/16-14	3/4	41FL-12



Short Nut Shorter Nut

41FS / 41FX

Straight Thread	Tube Size	Part No.
5/16-24	1/8	41FS-2
3/8-24	3/16	41FS-3
7/16-20	1/4	41FS-4
1/2-20	5/16	41FS-5
5/8-18	3/8	41FS-6
5/8-18	3/8	41FX-6
11/16-16	7/16	41FS-7
3/4-16	1/2	41FS-8
3/4-16	1/2	41FX-8
7/8-14	5/8	41FS-10
7/8-14	5/8	41FX-10
1-1/16-14	3/4	41FS-12
1-1/4-12	7/8	41FS-14

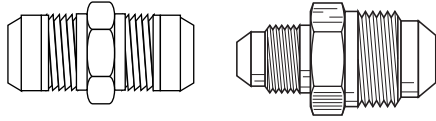


Reducing Nuts

Straight Thread	Tube Size	Part No.
5/8-18	3/8 to 1/4	41FS-6-4
3/4-16	1/2 to 3/8	41FS-8-6
7/8-14	5/8 to 1/2	41FS-10-8

Union

42F



Union Reducer

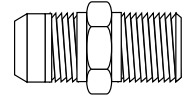
Straight Thread	Tube Size	Part No.
5/16-24	1/8	42F-2
3/8-24	3/16	42F-3
7/16-20	1/4	42F-4
1/2-20	5/16	42F-5
5/8-18	3/8	42F-6
3/4-16	1/2	42F-8
7/8-14	5/8	42F-10
1-1/16-14	3/4	42F-12*
1-1/4-12	7/8	42F-14*

Reducers

Straight Thread	Straight Thread	Tube Size	Tube Size	Part No.
7/16-20	5/8-18	1/4	3/8	42F-6-4
1/2-20	5/8-18	5/16	3/8	42F-6-5
7/16-20	3/4-16	1/4	1/2	42F-8-4
5/8-18	3/4-16	3/8	1/2	42F-8-6
5/8-18	7/8-14	3/8	5/8	42F-10-6
3/4-16	7/8-14	1/2	5/8	42F-10-8

Male Connector

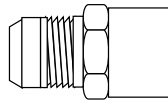
48F



Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	48F-2-2
3/8-24	1/8	3/16	48F-3-2
7/16-20	1/8	1/4	48F-4-2
7/16-20	1/4	1/4	48F-4-4
7/16-20	3/8	1/4	48F-4-6
7/16-20	1/2	1/4	48F-4-8
1/2-20	1/8	5/16	48F-5-2
1/2-20	1/4	5/16	48F-5-4
1/2-20	1/4	5/16	48F-5-6
5/8-18	1/8	3/8	48F-6-2
5/8-18	1/4	3/8	48F-6-4
5/8-18	3/8	3/8	48F-6-6
5/8-18	1/2	3/8	48F-6-8
5/8-18	3/4	3/8	48F-6-12
3/4-16	1/4	1/2	48F-8-4
3/4-16	3/8	1/2	48F-8-6
3/4-16	1/2	1/2	48F-8-8
3/4-16	3/4	1/2	48F-8-12
7/8-14	1/4	5/8	48F-10-4
7/8-14	3/8	5/8	48F-10-6
7/8-14	1/2	5/8	48F-10-8
7/8-14	3/4	5/8	48F-10-12
1-1/16-14	1/2	3/4	48F-12-8*
1-1/16-14	3/4	3/4	48F-12-12*
1-1/4-12	3/4	7/8	48F-14-12*

Female Connector

46F

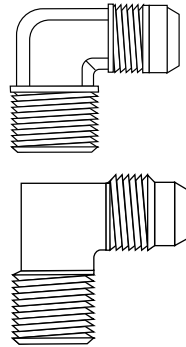


Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	46F-2-2
3/8-24	1/8	3/16	46F-3-2
7/16-20	1/8	1/4	46F-4-2
7/16-20	1/4	1/4	46F-4-4
7/16-20	3/8	1/4	46F-4-6
1/2-20	1/8	5/16	46F-5-2
1/2-20	1/4	5/16	46F-5-4
5/8-18	1/8	3/8	46F-6-2
5/8-18	1/4	3/8	46F-6-4
5/8-18	3/8	3/8	46F-6-6
5/8-18	1/2	3/8	46F-6-8
3/4-16	1/4	1/2	46F-8-4
3/4-16	3/8	1/2	46F-8-6
3/4-16	3/4	1/2	46F-8-12
7/8-14	3/8	5/8	46F-10-6
7/8-14	1/2	5/8	46F-10-8
7/8-14	3/4	5/8	46F-10-12

Male Elbow

149F-249F

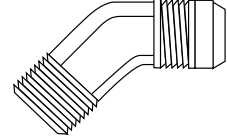
Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	149F-2-2
3/8-24	1/8	3/16	149F-3-2
3/8-24	1/8	3/16	249F-3-2
7/16-20	1/8	1/4	149F-4-2
7/16-20	1/8	1/4	249F-4-2
7/16-20	1/4	1/4	149F-4-4
7/16-20	1/4	1/4	249F-4-4
7/16-20	3/8	1/4	149F-4-6
7/16-20	3/8	1/4	249F-4-6
1/2-20	1/8	5/16	149F-5-2
1/2-20	1/8	5/16	249F-5-2
1/2-20	1/4	5/16	149F-5-4
1/2-20	1/4	5/16	249F-5-4
1/2-20	3/8	5/16	149F-5-6
5/8-18	1/8	3/8	149F-6-2
5/8-18	1/8	3/8	249F-6-2
5/8-18	1/4	3/8	149F-6-4
5/8-18	1/4	3/8	249F-6-4
5/8-18	3/8	3/8	149F-6-6
5/8-18	3/8	3/8	249F-6-6
5/8-18	1/2	3/8	149F-6-8
5/8-18	1/2	3/8	249F-6-8
3/4-16	1/4	1/2	149F-8-4
3/4-16	3/8	1/2	149F-8-6
3/4-16	3/8	1/2	249F-8-6
3/4-16	1/2	1/2	149F-8-8
3/4-16	1/2	1/2	249F-8-8
3/4-16	3/4	1/2	149F-8-12
7/8-14	3/8	5/8	149F-10-6
7/8-14	1/2	5/8	149F-10-8
7/8-14	1/2	5/8	249F-10-8
7/8-14	3/4	5/8	149F-10-12
1-1/16-14	1/2	3/4	149F-12-8*
1-1/16-14	3/4	3/4	149F-12-12*



45° Elbow

159F

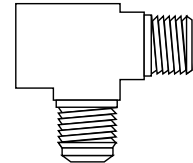
Straight Thread.	Pipe Thread	Tube Size	Part No.
7/16-20	1/8	1/4	159F-4-2
7/16-20	1/4	1/4	159F-4-4
1/2-20	1/8	5/16	159F-5-2
1/2-20	1/4	5/16	159F-5-4
5/8-18	1/4	3/8	159F-6-4
5/8-18	3/8	3/8	159F-6-6
3/4-16	3/8	1/2	159F-8-6
3/4-16	1/2	1/2	159F-8-8
7/8-14	3/8	5/8	159F-10-6
7/8-14	1/2	5/8	159F-10-8
1-1/16-14	1/2	3/4	159F-12-8



Adapter Tee

256F

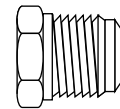
Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-20	1/8	1/4	256F-4-2



Flared Seal Plug

639F

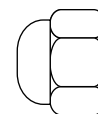
Straight Thread	Tube Size	Part No.
7/16-20	1/4	639F-4
1/2-20	5/16	639F-5
5/8-18	3/8	639F-6
3/4-16	1/2	639F-8
7/8-14	5/8	639F-10



Cap Nut

640F

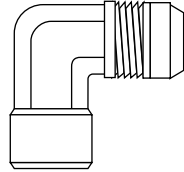
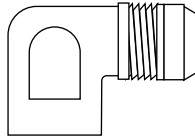
Tube Size	Straight Thread	Part No.
3/16	3/8-24	640F-3
1/4	7/16-20	640F-4
5/16	1/2-20	640F-5
3/8	5/8-18	640F-6
1/2	3/4-16	640F-8
5/8	7/8-14	640F-10



Female Elbow

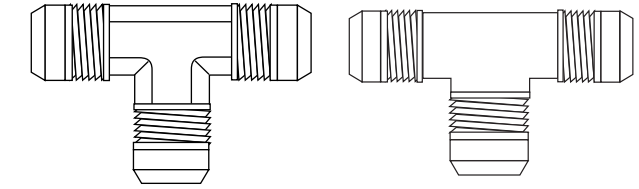
150F

Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-20	1/8	1/4	150F-4-2
7/16-20	1/4	1/4	150F-4-4
1/2-20	1/4	5/16	150F-5-4
5/8-18	1/8	3/8	150F-6-2
5/8-18	1/4	3/8	150F-6-4
5/8-18	3/8	3/8	150F-6-6
5/8-18	1/2	3/8	150F-6-8
3/4-16	3/8	1/2	150F-8-6
3/4-16	1/2	1/2	150F-8-8
3/4-16	3/4	1/2	150F-8-12
7/8-14	1/2	5/8	150F-10-8
7/8-14	3/4	5/8	150F-10-12



Union Tee

144F-244F

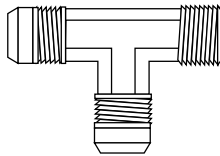


Straight Thread	Tube Size	Part No.
3/8-24	3/16	144F-3
7/16-20	1/4	144F-4
7/16-20	1/4	244F-4
1/2-20	5/16	144F-5
5/8-18	3/8	144F-6
3/4-16	1/2	144F-8
7/8-14	5/8	144F-10

Male Run Tee

151F

Straight Thread	Pipe Thread	Tube Size	Part No.
7/16-20	1/8	1/4	151F-4-2
7/16-20	1/4	1/4	151F-4-4
1/2-20	1/4	5/16	151F-5-4
5/8-18	1/4	3/8	151F-6-4
5/8-18	3/8	3/8	151F-6-6
5/8-18	1/2	3/8	151F-6-8
3/4-16	3/8	1/2	151F-8-6
3/4-16	1/2	1/2	151F-8-8
7/8-14	1/2	5/8	151F-10-8



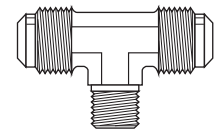
Combination sizes

1 Tube Size	2 Tube Size	3 Tube Size	Part No.
3/8	3/8	1/4	144F-6-6-4
1/2	1/2	3/8	144F-8-8-6

Male Branch Tee

145F

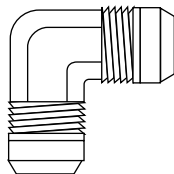
Straight Thread	Pipe Thread	Tube Size	Part No.
5/16-24	1/8	1/8	145F-2-2
7/16-20	1/8	1/4	145F-4-2
7/16-20	1/4	1/4	145F-4-4
1/2-20	1/4	5/16	145F-5-4
5/8-18	1/4	3/8	145F-6-4
5/8-18	3/8	3/8	145F-6-6
5/8-18	1/2	3/8	145F-6-8
3/4-16	3/8	1/2	145F-8-6
3/4-16	1/2	1/2	145F-8-8
7/8-14	1/2	5/8	145F-10-8



Union Elbow

155F

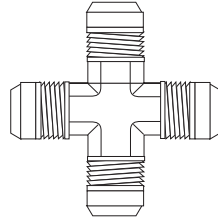
Straight Thread	Tube Size	Part No.
5/16-24	1/8	155F-2
3/8-24	3/16	155F-3
7/16-20	1/4	155F-4
1/2-20	5/16	155F-5
5/8-18	3/8	155F-6
3/4-16	1/2	155F-8
7/8-14	5/8	155F-10
1-1/16-14	3/4	155F-12*



Cross

147F

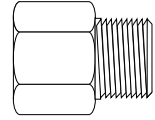
Straight Thread	Tube Size	Part No.
5/8-18	3/8	147F-6



Female Flare to Male Pipe Thread

664FHD

Tube Size	Pipe Thread	Straight Thread	Part No.*
1/4	1/8	7/16-20	664FHD-4-2
1/4	1/4	7/16-20	664FHD-4-4
3/8	1/4	5/8-18	664FHD-6-4
1/2	3/8	3/4-16	664FHD-8-6

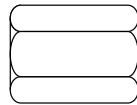


*Should be used with 2GF copper gasket.

Flared Union - Female Flare to Female Flare

660FHD

Tube Size	Straight Thread	Part No.*
1/4	7/16-20	660FHD-4
3/8	5/8-18	660FHD-6
1/2	3/4-16	660FHD-8

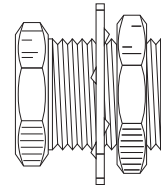


*Should be used with 2GF copper gasket.

Anchor Connector

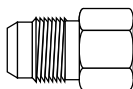
207ACBH

Female Pipe Thread	Straight Thread	Part No.
1/8	5/8-18	207ACBH-2
1/4	3/4-16	207ACBH-4
1/4	3/4-16	207ACBH-4
3/8	1-14	207ACBH-6
1/2	1-1/8-14	207ACBH-8



Reducer - Male Flare to Female Flare

661FHD



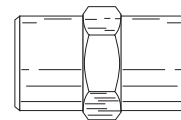
1 Tube Size	2 Tube Size	1 Straight Thread	2 Straight Thread	Part No.*
1/4	3/8	7/16-20	5/8-18	661FHD-4-6
1/4	1/2	7/16-20	3/4-16	661FHD-4-8
3/8	1/4	5/8-18	7/16-20	661FHD-6-4
3/8	1/2	5/8-18	3/4-16	661FHD-6-8
1/2	3/8	3/4-16	5/8-18	661FHD-8-6
1/2	5/8	3/4-16	7/8-14	661FHD-8-10
5/8	1/2	7/8-14	3/4-16	661FHD-10-8

*Should be used with 2GF copper gasket.

Coupling

207P

Pipe Thread	Part No.
1/8	207P-2
1/4	207P-4
3/8	207P-6
1/2	207P-8
3/4	207P-12



Reducer Coupling

208P

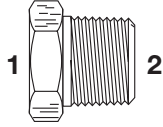
1 Pipe Thread	2 Pipe Thread	Part No.
1/4	1/8	208P-4-2
3/8	1/4	208P-6-4
1/2	1/4	208P-8-4
1/2	3/8	208P-8-6



Bushing

209P

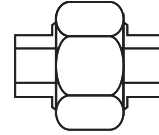
1 Pipe Thread	2 Pipe Thread	Part No.
1/8	1/4	209P-4-2
1/8	3/8	209P-6-2
1/4	3/8	209P-6-4
1/4	3/8	209PA-6-4
1/8	1/2	209P-8-2
1/4	1/2	209P-8-4
3/8	1/2	209P-8-6
1/8	3/4	209P-12-2
1/4	3/4	209P-12-4
3/8	3/4	209P-12-6
1/2	3/4	209P-12-8



Union

212P

Pipe Thread	Part No.
1/4	212P-4
3/8	212P-6



Cap

213P

Pipe Thread	Part No.
1/8	213P-2
1/4	213P-4
3/8	213P-6
1/2	213P-8



Lock Nut

210P

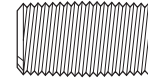
Pipe Thread	Part No.
1/8	210P-2
1/4	210P-4
3/8	210P-6
1/2	210P-8



Close Nipple

215PN

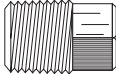
Pipe Thread	Part No.
1/8	215PN-2
1/4	215PN-4
3/8	215PN-6
1/2	215PN-8
3/4	215PN-12



Square-Head Plug

211P

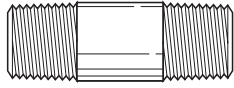
Pipe Thread	Part No.
1/8	211P-2
1/4	211P-4
3/8	211P-6
1/2	211P-8
3/4	211P-12



Long Nipple

215PNL

Pipe Thread	Part No.
1/8	215PNL-2-15
1/4	215PNL-4-15
3/8	215PNL-6-15
1/2	215PNL-8-15
1/8	215PNL-2-20
1/4	215PNL-4-20
3/8	215PNL-6-20
1/2	215PNL-8-20
1/8	215PNL-2-25
1/4	215PNL-4-25
3/8	215PNL-6-25
1/2	215PNL-8-25
1/8	215PNL-2-30
1/4	215PNL-4-30
3/8	215PNL-6-30
1/2	215PNL-8-30
1/8	215PNL-2-35
1/4	215PNL-4-35
3/8	215PNL-6-35
1/2	215PNL-8-35



Hex-Head Plug

218P

Pipe Thread	Part No.
1/8	218P-2
1/4	218P-4
3/8	218P-6
1/2	218P-8
3/4	218P-12



Countersunk Hex-Head Plug

219P

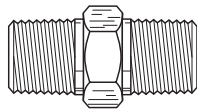
Pipe Thread	Part No.
1/8	219P-2
1/4	219P-4
3/8	219P-6
1/2	219P-8



Hex Nipple

216P

Pipe Thread	Part No.
1/8	216P-2
1/4	216P-4
3/8	216P-6
1/2	216P-8



Slotted-Head Plug

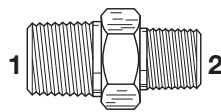
220P

Pipe Thread	Part No.
1/8	220P-2
1/4	220P-4
3/8	220P-6



Reducers

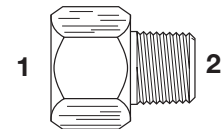
1 Pipe Thread	2 Pipe Thread	Part No.
1/4	1/8	216P-4-2
3/8	1/8	216P-6-2
3/8	1/4	216P-6-4
1/2	3/8	216P-8-6
1/2	1/4	216P-8-4



Adapter

222P

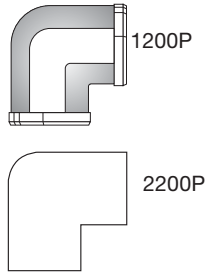
1 Pipe Thread	2 Pipe Thread	Part No.
1/8	1/8	222P-2-2
1/4	1/8	222P-4-2
1/4	1/4	222P-4-4
3/8	1/4	222P-6-4
3/8	3/8	222P-6-6
1/2	3/8	222P-8-6
1/2	1/2	222P-8-8
3/4	1/2	222P-12-8
3/4	3/4	222P-12-12



90° Union Elbow

1200P-2200P

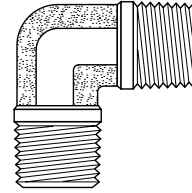
Pipe Thread	Part No.
1/8	1200P-2-2
1/8	2200P-2-2
1/4	1200P-4-4
1/4	2200P-4-4
3/8	2200P-6-6
1/2	2200P-8-8



Male Elbow

1204P

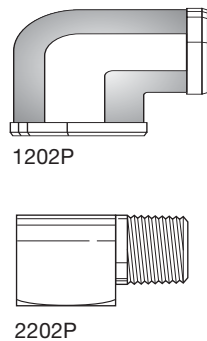
Pipe Thread	Part No.
1/8	1204P-2
1/4	1204P-4
3/8	1204P-6
1/2	1204P-8



90° Street Elbow

1202P-2202P

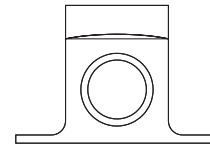
1 Pipe Thread	2 Pipe Thread	Part No.
1/8	1/8	1202P-2-2
1/8	1/8	2202P-2-2
1/8	1/8	2202PA-2-2
1/4	1/8	2202P-4-2
1/4	1/4	1202P-4-4
1/4	1/4	2202P-4-4
1/4	1/4	2202PA-4-4
3/8	3/8	1202P-6-6
3/8	3/8	2202P-6-6
3/8	3/8	2202PA-6-6
1/2	1/2	2202P-8-8
3/4	3/4	2202P-12-12



Drop-Ear 90° Elbow

2200PDE

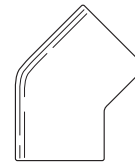
Pipe Thread	Part No.
1/8	2200PDE-2



45° Female Elbow

2201P

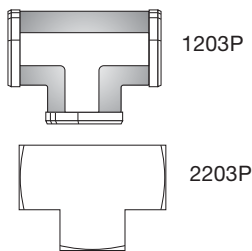
Pipe Thread	Part No.
1/8	2201P-2-2



Union Tee

1203P-2203P

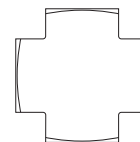
Pipe Thread	Part No.
1/8	1203P-2
1/8	2203P-2
1/4	1203P-4
1/4	2203P-4
3/8	2203P-6
1/2	2203P-8
3/4	2203P-12



Cross

2205P

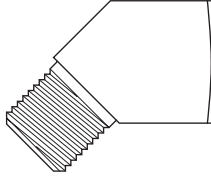
Pipe Thread	Part No.
1/8	2205P-2
1/4	2205P-4
3/8	2205P-6
1/2	2205P-8
3/4	2205P-12



45° Street Elbow

2214P

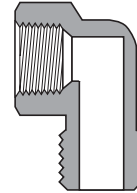
Pipe Thread	Part No.
1/8	2214P-2-2
1/4	2214P-4-4
3/8	2214P-6-6
1/2	2214P-8-8
3/4	2214P-12-12



90° Elbow Male-Female
BSPT-BSPP

CD43

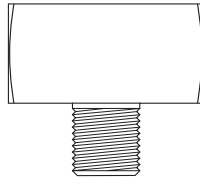
BSPT 1	BSPP 2	Part No.
1/8	1/8	1/8CD43B
1/4	1/4	1/4CD43B
3/8	3/8	3/8CD43B
1/2	1/2	1/2CD43B



Male Branch Tee

2224P

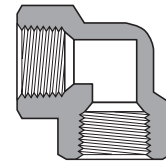
Pipe Thread	Part No.
1/8	2224P-2
1/4	2224P-4
3/8	2224P-6



Pipe 90° Elbow BSPP

DD44

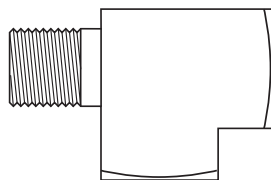
BSPP	Part No.
1/8	1/8DD44B
1/4	1/4DD44B
3/8	3/8DD44B
1/2	1/2DD44B



Street Tee

2225P

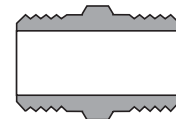
Pipe Thread	Part No.
1/8	2225P-2
1/4	2225P-4
3/8	2225P-6
1/2	2225P-8
3/4	2225P-12



Hex Nipple NPTF BSPT

F3HF

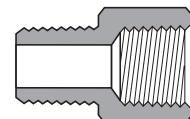
NPTF 1	BSPT 2	Part No.
1/8	1/8	1/8F3HF-B
1/4	1/4	1/4F3HF-B
3/8	3/8	3/8F3HF-B
1/2	1/2	1/2F3HF-B



Adapter NPTF Male BSPT

F3HG

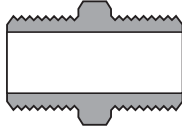
NPTF 1	BSPT 2	Part No.
1/8	1/8	1/8F3HG-B
1/4	1/4	1/4F3HG-B
3/8	3/8	3/8F3HG-B
1/2	1/2	1/2F3HG-B



Pipe Nipples BSPT

FF33

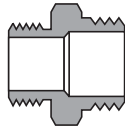
BSPT	Part No.
1/8	1/8FF33B
1/4	1/4FF33B
3/8	3/8FF33B
1/2	1/2FF33B
3/4	3/4FF33B
1	1FF33B



Unequal Pipe Nipples BSPT

FF33

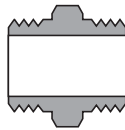
BSPT 1	BSPT 2	Part No.
1/8	1/4	1/8x1/4FF33B
1/8	3/8	1/8x3/8FF33B
1/8	1/2	1/8x1/2FF33B
1/4	3/8	1/4x3/8FF33B
1/4	1/2	1/4x1/2FF33B
3/8	1/2	3/8x1/2FF33B
3/8	3/4	3/8x3/4FF33B
1/2	3/4	1/2x3/4FF33B
3/4	1	3/4x1FF33B



Pipe Nipples BSPP

FF44

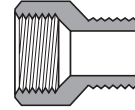
BSPP	Part No.
1/8	1/8FF44B
1/4	1/4FF44B
3/8	3/8FF44B
1/2	1/2FF44B



Reducing Connector
Female-Male BSPP-BSPT

FG43

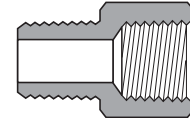
BSPT 1	BSPP 2	Part No.
1/8	1/4	1/4x1/8FG43B
1/8	3/8	3/8x1/8FG43B
1/4	3/8	3/8x1/4FG43B
1/8	1/2	1/2x1/8FG43B
1/4	1/2	1/2x1/4FG43B
3/8	1/2	1/2x3/8FG43B
1/2	3/4	3/4x1/2FG43B
3/4	1	1x3/4FG43B



Adapter Male NPTF BSPP

FHG4

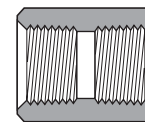
BSPT 1	NPTF 2	Part No.
1/8	1/8	1/8FHG4-B
1/4	1/4	1/4FHG4-B
3/8	3/8	3/8FHG4-B
1/2	1/2	1/2FHG4-B



Pipe Connector BSPP

GG44

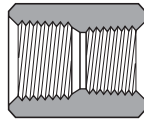
BSPP	Part No.
1/8	1/8GG44B
1/4	1/4GG44B
3/8	3/8GG44B
1/2	1/2GG44B
3/4	3/4GG44B
1	1GG44B



Unequal Pipe Connector
BSPB

GG44

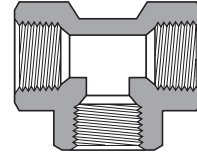
BSPB 1	BSPB 2	Part No.
1/8	1/4	1/8x1/4GG44B
1/8	3/8	1/8x3/8GG44B
1/8	1/2	1/8x1/2GG44B
1/4	3/8	1/4x3/8GG44B
1/4	1/2	1/4x1/2GG44B
3/8	1/2	3/8x1/2GG44B



Pipe Tee BSPB

MMO444

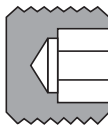
BSPB	Part No.
1/8	1/8MMO444B
1/4	1/4MMO444B
3/8	3/8MMO444B
1/2	1/2MMO444B
3/4	3/4MMO444B
1	1MMO444B



Hollow Hex Plug BSPT

HHP3

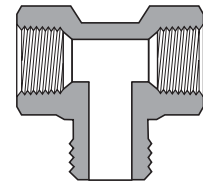
BSPT	Part No.
1/8	1/8HHP3B
1/4	1/4HHP3B
3/8	3/8HHP3B
1/2	1/2HHP3B



Branch Tee
Female-Male-Female
BSPB-BSPT-BSPB

MMS443

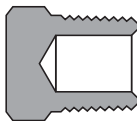
BSPB 1	BSPT 2	Part No.
1/8	1/8	1/8MMS443B
1/4	1/4	1/4MMS443B
3/8	3/8	3/8MMS443B
1/2	1/2	1/2MMS443B



Hex Plug BSPT

HP3

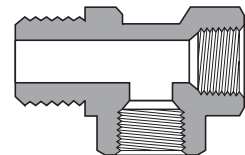
BSPT	Part No.
1/8	1/8HP3B
1/4	1/4HP3B
3/8	3/8HP3B
1/2	1/2HP3B
3/4	3/4HP3B
1	1HP3B



Run Tee
Female-Female-Male
BSPB-BSPB-BSPT

MRO434

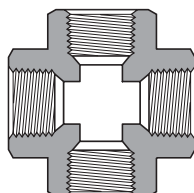
BSPB 1	BSPB 2	Part No.
1/8	1/8	1/8MRO434B
1/4	1/4	1/4MRO434B
3/8	3/8	3/8MRO434B
1/2	1/2	1/2MRO434B



Pipe Cross BSPB

KMMOO4

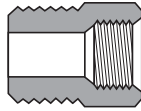
BSPB	Part No.
1/8	1/8KMMOO4B
1/4	1/4KMMOO4B
3/8	3/8KMMOO4B
1/2	1/2KMMOO4B



Pipe Thread Reducer
Male-Female BSPT-BSPP

PTR34

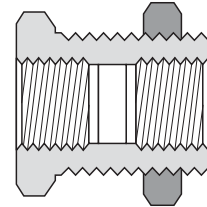
BSPT 1	BSPP 2	Part No.
1/4	1/8	1/4x1/8PTR34B
3/8	1/8	3/8x1/8PTR34B
3/8	1/4	3/8x1/4PTR34B
1/2	1/8	1/2x1/8PTR34B
1/2	1/4	1/2x1/4PTR34B
1/2	3/8	1/2x3/8PTR34B
3/4	3/8	3/4x3/8PTR34B
3/4	1/2	3/4x1/2PTR34B
1	1/2	1x1/2PTR34B
1	3/4	1x3/4PTR34B



Bulkhead Female Union
BSPP

WGG44

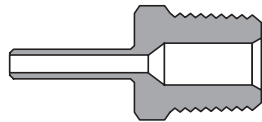
BSPP	Straight Thread	Part No.
1/8	M16x1.5	1/8WGG44B
1/4	M20x1.5	1/4WGG44B
3/8	M23x1.5	3/8WGG44B
1/2	M27x1.5	1/2WGG44B
3/4	M34x1.5	3/4WGG44B
1	M45x2	1WGG44B



Inch Tube Male BSPT

T5HF

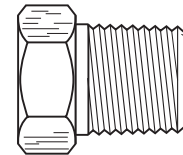
Tube Size	BSPT	Part No.
1/8	1/8	2-1/8T5HF3-B
1/4	1/4	4-1/4T5HF3-B
3/8	3/8	6-3/8T5HF3-B
1/2	1/2	8-1/2T5HF3-B



Nut

41IF

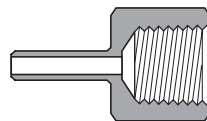
Tube Size	Straight Thread	Part No.
1/8	5/16-28	41IF-2
3/16	3/8-24	41IF-3
1/4	7/16-24	41IF-4
5/16	1/2-20	41IF-5
3/8	5/8-18	41IF-6
1/2	3/4-18	41IF-8



Inch Tube Female BSPT

T5HG

Tube Size	BSPT	Part No.
1/8	1/8	2-1/8T5HG3-B
1/4	1/4	4-1/4T5HG3-B
3/8	3/8	6-3/8T5HG3-B
1/2	1/2	8-1/2T5HG3-B

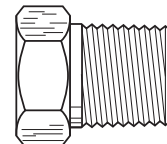


Steel Nut

41IFS

Zinc Chromate

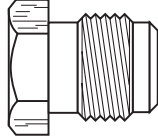
Tube Size	Straight Thread	Part No.
1/8	5/16-28	41IFS-2
3/16	3/8-24	41IFS-3
1/4	7/16-24	41IFS-4
5/16	1/2-20	41IFS-5
3/8	5/8-18	41IFS-6
1/2	3/4-18	41IFS-8
5/8	7/8-18	41IFS-10
3/4	1 1/16-16	41IFS-12



Special Ford Nut

43IF

Tube Size	Straight Thread	Part No.
1/4	1/2-20	43IF-4



Union

42IFHD

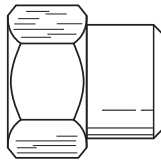
Tube Size	Straight Thread	Part No.
1/8	5/16-28	42IFHD-2
3/16	3/8-24	42IFHD-3
1/4	7/16-24	42IFHD-4
5/16	1/2-20	42IFHD-5
3/8	5/8-18	42IFHD-6
1/2	3/4-18	42IFHD-8



Female Connector

46IFHD

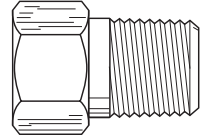
Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/8	3/8-24	46IFHD-3-2
1/4	1/8	7/16-24	46IFHD-4-2
5/16	1/8	1/2-20	46IFHD-5-2
3/8	1/4	5/8-18	46IFHD-6-4
1/2	3/8	3/4-18	46IFHD-8-6



Male Connector

48IFHD

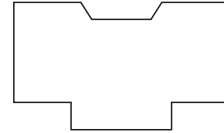
Tube Size	Pipe Thread	Straight Thread	Part No.
1/8	1/8	5/16-28	48IFHD-2-2
3/16	1/8	3/8-24	48IFHD-3-2
1/4	1/8	7/16-24	48IFHD-4-2
1/4	1/4	7/16-24	48IFHD-4-4
5/16	1/8	1/2-20	48IFHD-5-2
5/16	1/4	1/2-20	48IFHD-5-4
3/8	1/8	5/8-18	48IFHD-6-2
3/8	1/4	5/8-18	48IFHD-6-4
3/8	3/8	5/8-18	48IFHD-6-6
1/2	1/4	3/4-18	48IFHD-8-4
1/2	3/8	3/4-18	48IFHD-8-6
1/2	1/2	3/4-18	48IFHD-8-8
5/8	1/2	7/8-18	48IFHD-10-8
7/8	3/4	1-3/16-16	48IFHD-14-12



Union Tee

244IFHD

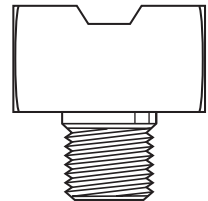
Tube Size	Straight Thread	Part No.
3/16	3/8-24	244IFHD-3
1/4	7/16-24	244IFHD-4
5/16	1/2-20	244IFHD-5
3/8	5/8-18	244IFHD-6
1/2	3/4-18	244IFHD-8



Male Branch Tee

245IFHD

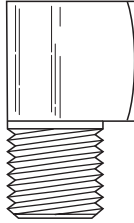
Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	245IFHD-4-2
3/8	1/4	5/8-18	245IFHD-6-4



Male Elbow

249IFHD & 249IF

Tube Size	Pipe Thread	Straight Thread	Part No.
1/8	1/8	5/16-28	249IFHD-2-2
3/16	1/8	3/8-24	249IFHD-3-2
1/4	1/8	7/16-24	249IFHD-4-2
1/4	1/4	7/16-24	249IFHD-4-4
5/16	1/8	1/2-20	249IF-5-2*
5/16	1/8	1/2-20	249IFHD-5-2
5/16	1/4	1/2-20	249IFHD-5-4
3/8	1/8	5/8-18	249IFHD-6-2
3/8	1/4	5/8-18	249IF-6-4*
3/8	1/4	5/8-18	249IFHD-6-4
3/8	3/8	5/8-18	249IFHD-6-6
1/2	1/4	3/4-18	249IFHD-8-4
1/2	3/8	3/4-18	249IF-8-6*
1/2	3/8	3/4-18	249IFHD-8-6
1/2	1/2	3/4-18	249IFHD-8-8
5/8	1/2	7/8-18	249IFHD-10-8
7/8	3/4	1-3/16-16	249IFHD-14-12

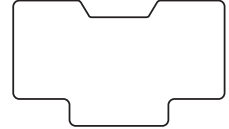


*Light Duty Series

Female Branch Tee

252IFHD

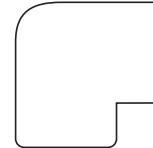
Tube Size	Pipe Thread	Straight Thread	Part No.
5/16	1/8	1/2-20	252IFHD-5-2
3/8	1/4	5/8-18	252IFHD-6-4



Union Elbow

255IFHD

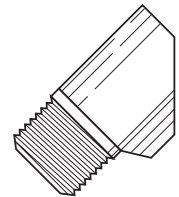
Tube Size	Straight Thread	Part No.
1/4	7/16-24	255IFHD-4



45° Elbow

259IFHD

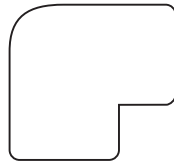
Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/8	3/8-24	259IFHD-3-2
1/4	1/8	7/16-24	259IFHD-4-2
5/16	1/8	1/2-20	259IFHD-5-2
5/16	1/4	1/2-20	259IFHD-5-4
3/8	1/4	5/8-18	259IFHD-6-4
1/2	3/8	3/4-18	259IFHD-8-6
5/8	1/2	7/8-18	259IFHD-10-8



Female Elbow

250IFHD

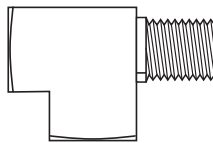
Tube Size	Pipe Thread	Straight Thread	Part No.
1/4	1/8	7/16-24	250IFHD-4-2
5/16	1/8	1/2-20	250IFHD-5-2
3/8	1/4	5/8-18	250IFHD-6-4



Male Run Tee

251IFHD

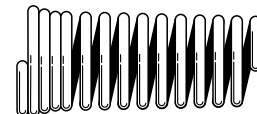
Tube Size	Pipe Thread	Straight Thread	Part No.
3/16	1/8	3/8-24	251IFHD-3-2
5/16	1/8	1/2-20	251IFHD-5-2
3/8	1/4	5/8-18	251IFHD-6-4



Spring

56RBSG

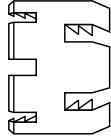
Hose Size	Part No.
3/8	56RBSG-6
1/2	56RBSG-8



Sleeve

60RB

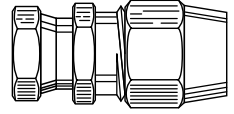
Hose Size	Part No.
3/8	60RB-6
1/2	60RB-8



Female Swivel Connector

66RBSV

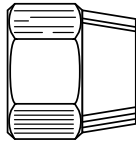
Hose Size	Straight Thread	Part No.
3/8	3/4-20	66RBSV-6-3/4
1/2	7/8-20	66RBSV-8-7/8



Nut

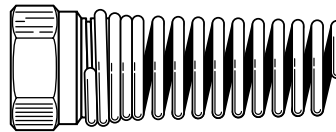
61RB

Hose Size	Straight Thread	Part No.
3/8	31/32-20	61RB-6
1/2	1-3/32-20	61RB-8



Air Brake Hose Nut & Attached Spring

67RBSG

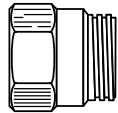


Description	Part No.
3/8" Nut with Spring Guard	67RBSG-6
1/2" Nut with Spring Guard	67RBSG-8

Spring Guard Nut

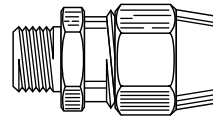
61RBSG

Hose Size	Straight Thread	Part No.
3/8	31/32-20	61RBSG-6
1/2	1-3/32-20	61RBSG-8



Male Connector

68RB

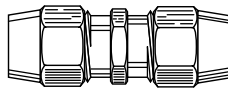


Hose Thread	Straight Thread	Pipe Thread	Part No.
3/8	31/32-20	1/4	68RB-6-4
3/8	31/32-20	3/8	68RB-6-6
3/8	31/32-20	1/2	68RB-6-8
1/2	1-3/32-20	3/8	68RB-8-6
1/2	1-3/32-20	1/2	68RB-8-8

Union

62RB

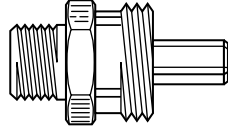
Hose Size	Straight Thread	Part No.
3/8	31/32-20	62RB-6
1/2	1-3/32-20	62RB-8



Male Connector - Body Only

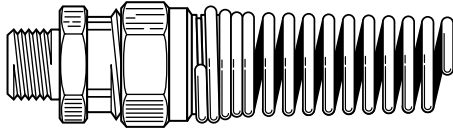
68RB

Straight Thread	Pipe Thread	Part No.
31/32-20	1/4	68RB-6-4B
31/32-20	3/8	68RB-6-6B
31/32-20	1/2	68RB-6-8B
1-3/32-20	3/8	68RB-8-6B
1-3/32-20	1/2	68RB-8-8B



Male Connector With Spring Guard

68RBSG

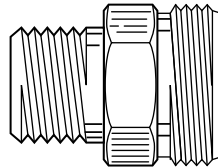


Straight Thread	Pipe Thread	Part No.
3/8	1/4	68RBSG-6-4
3/8	3/8	68RBSG-6-6
3/8	1/2	68RBSG-6-8
1/2	3/8	68RBSG-8-6
1/2	1/2	68RBSG-8-8

Adapter

76RB

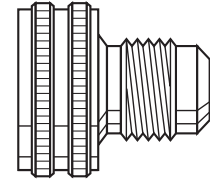
Straight Thread	Pipe Thread	Part No.
3/4-20	1/4	76RB-3/4-4
3/4-20	3/8	76RB-3/4-6
7/8-20	3/8	76RB-7/8-6
7/8-20	1/2	76RB-7/8-8



Swivel Connector SAE Flare to Female Hose Thread

50GHSV & 51GHSV

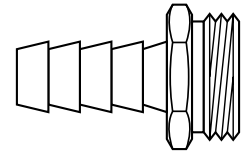
Pipe Thread	Hose Thread	Part No.
3/4	3/8	50GHSV-6-12
3/4	1/2	51GHSV-8-12



Hose Barb to Garden Hose

53GH, 54GH & 55GH

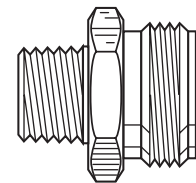
Hose Thread	Tube Size	Part No.
3/4	1/2	53GH-8-12
3/4	5/8	54GH-10-12
3/4	3/4	55GH-12-12



Male Hose to Male Pipe

69GH, 70GH, 71GH & 75GH

Pipe Thread	Hose Thread	Part No.
3/8	3/4	69GH-12-6
1/2	3/4	70GH-12-8
3/4	3/4	71GH-12-12
+	3/4	75GH-12

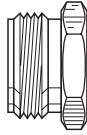


+75GH-12 has male garden hose thread on both ends.

Male Hose to Female Pipe

78GH, 79GH,
80GH & 81GH

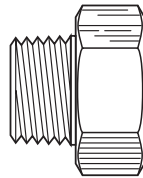
Pipe Thread	Hose Thread	Part No.
1/4	3/4	78GH-12-4
3/8	3/4	79GH-12-6
1/2	3/4	80GH-12-8
3/4	3/4	81GH-12-12



Female Hose to Male Pipe

82GH & 83GH

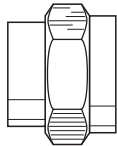
Pipe Thread	Hose Thread	Part No.
1/2	3/4	82GH-12-8
3/4	3/4	83GH-12-12



Female Hose to Female Pipe

98GH & 99GH

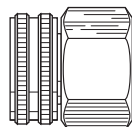
Pipe Thread	Hose Thread	Part No.
1/2	3/4	98GH-12-8
3/4	3/4	99GH-12-12



Swivel Connector
Female Hose to Female Pipe

98GHSV &
99GHSV

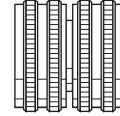
Pipe Thread	Hose Thread	Part No.
1/2	3/4	98GHSV-12-8
3/4	3/4	99GHSV-12-12



Swivel Nut Connector

101GHSV

Hose Thread	Part No.
3/4	101GHSV-12



Rubber Garden Hose
Coupling Washer

901GH

Hose Thread	Part No.
3/4	901GH-12

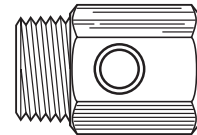


Note: All female connector ends should have a rubber washer (901GH-12) inserted prior to usage.

Special Filter Adapter

84GH

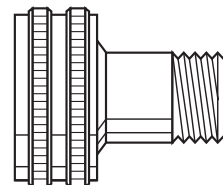
Pipe Thread	Hose Thread	Part No.
1/2	1/2	84GH-8-8



Swivel Connector
Female Garden Hose
to Male Pipe

88GH & 89GH

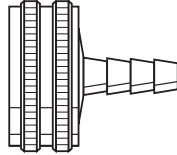
Pipe Thread	Hose Thread	Part No.
1/4	3/4	88GH-12-4
3/8	3/4	89GH-12-6



Swivel Connector
Female Garden Hose
to Hose Barb

90GH, 91GH,
92GH & 93GH

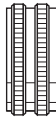
Hose Thread	Hose Size	Part No.
3/4	1/4	90GH-12-4
3/4	3/8	90GH-12-6
3/4	1/2	91GH-12-8
3/4	5/8	92GH-12-10
3/4	3/4	93GH-12-12



Knurled Hose Nut

94GH

Hose Thread	Part No.
3/4	94GH-12



Hose Nut Reducer

95GH

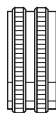
Pipe Thread	Hose Thread	Part No.
1/8	3/4	95GH-12-2



Hose Cap Nut

96GH

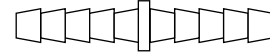
Hose Thread	Part No.
3/4	96GH-12



Hose Mender

122HBL

I.D. Hose Size	Part No.
3/16	122HB-3*
1/4	122HBL-4
5/16	122HBL-5
3/8	122HBL-6
1/2	122HBL-8

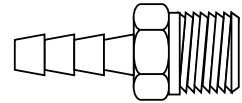


*3 Barb Design

Hose Barb to Male Pipe

125HB

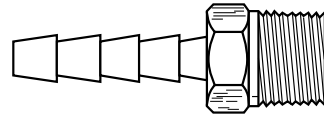
Pipe Thread	I.D. Hose Size	Part No.
1/8	1/8	125HB-2-2
1/8	3/16	125HB-3-2
1/4	3/16	125HB-3-4



Hose Barb to Male Pipe

125HBL

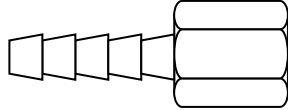
Pipe Thread	I.D. Hose Size	Part No.
1/8	1/4	125HBL-4-2
1/4	1/4	125HBL-4-4
3/8	1/4	125HBL-4-6
1/8	5/16	125HBL-5-2
1/4	5/16	125HBL-5-4
3/8	5/16	125HBL-5-6
1/8	3/8	125HBL-6-2
1/4	3/8	125HBL-6-4
3/8	3/8	125HBL-6-6
1/2	3/8	125HBL-6-8
1/4	1/2	125HBL-8-4
3/8	1/2	125HBL-8-6
1/2	1/2	125HBL-8-8
3/4	1/2	125HBL-8-12
3/8	5/8	125HBL-10-6
1/2	5/8	125HBL-10-8
3/4	5/8	125HBL-10-12
1/2	3/4	125HBL-12-8
3/4	3/4	125HBL-12-12
3/4	1	125HBL-16-12
1	1	125HBL-16-16



Hose Barb to Female Pipe

126HBL

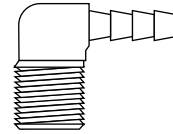
Pipe Thread	I.D. Hose Size	Part No.
1/8	1/4	126HBL-4-2
1/4	1/4	126HBL-4-4
1/4	5/16	126HBL-5-4
1/8	3/8	126HBL-6-2
1/4	3/8	126HBL-6-4
3/8	3/8	126HBL-6-6
3/8	1/2	126HBL-8-6
1/2	1/2	126HBL-8-8



Hose Barb 90° Elbow to Male Pipe

129HB

Pipe Thread	I.D. Hose Size	Part No.
1/8	1/4	129HB-4-2
1/4	1/4	129HB-4-4
1/4	3/8	129HB-6-4*
3/8	3/8	129HB-6-6
3/8	1/2	129HB-8-6



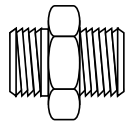
*Four Barbs

Ball-End Joint Adapter to Male Pipe

127HB

(For Use with 128HBLSV)

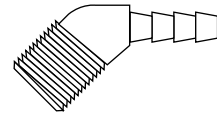
Male N.P.S.M Thread	Male N.P.T Thread	Part No.
1/8	1/4	127HB-4-2
1/4	1/4	127HB-4-4
1/4	3/8	127HB-6-4
3/8	3/8	127HB-6-6
3/8	1/2	127HB-8-6
1/2	1/2	127HB-8-8



Hose Barb 45° Elbow to Male Pipe

139HB

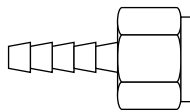
Pipe Thread	I.D. Hose Size	Part No.
1/8	1/4	139HB-4-2
1/4	1/4	139HB-4-4
1/4	3/8	139HB-6-4



Hose Barb to Swivel Female Ball End

128HBLSV

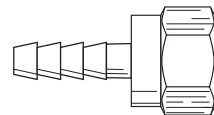
Female N.P.S.Mt Thread	I.D. Hose Size	Part No.
1/4	1/4	128HBLSV-4-4
1/4	5/16	128HBLSV-5-4
1/4	3/8	128HBLSV-6-4
3/8	3/8	128HBLSV-6-6
1/2	1/2	128HBLSV-8-8



Hose Barb to Swivel 45° Female Flare

146HBLFSV

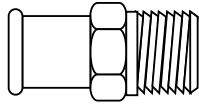
Straight Thread	I.D. Hose Size	Part No.
7/16-20	1/4	146HBLFSV-4-4
5/8-18	1/4	146HBLFSV-4-6
5/8-18	3/8	146HBLFSV-6-6



Beaded Hose Barb to Male Pipe

68HB

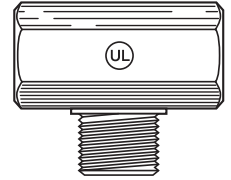
Pipe Thread	I.D. Hose Size	Part No.
3/8	3/8	68HB-6-6
1/4	1/2	68HB-8-4
3/8	1/2	68HB-8-6
3/8	5/8	68HB-10-6
1/2	5/8	68HB-10-8
1/2	3/4	68HB-12-8
3/4	1	68HB-16-12
1	1	68HB-16-16



Tee Check

2000

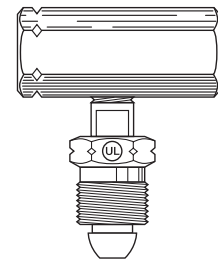
Internal Thread	Pipe Thread	Part No.
7/16-24 UNS	1/4-18 NPTF	2000



Manifold Block Tee Assembly with Check Valve

2001

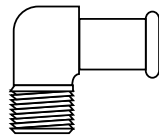
Internal Thread	External Thread	Part No.
.880-14LH	.880-14LH	2001



Beaded Hose Barb 90° Elbow Tube to Male Pipe

269HB

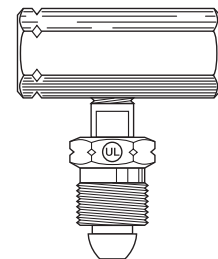
Pipe Thread	I.D. Hose Size	Part No.
3/8	3/8	269HB-6-6
3/8	1/2	269HB-8-6
1/2	1/2	269HB-8-8
1/4	5/8	269HB-10-4
3/8	5/8	269HB-10-6
1/2	5/8	269HB-10-8
1/2	3/4	269HB-12-8



Manifold Block Tee Assembly without Check Valve

2001S

Internal Thread	External Thread	Part No.
.880-14LH	.880-14LH	2001S



Stainless Steel Worm Drive Clamp

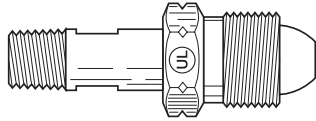
97HC

Part No.
97HC-3
97HC-6
97HC-8
97HC-12



POL Tailpiece and Nut Assembly

2002AB

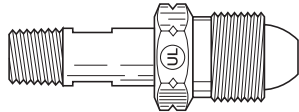


Pipe Thread	External Thread	Part No.
1/4-18 PTF	.880-14LH	2002AB*

* Thread Protectors

POL Tailpiece and Large Hex Nut Assembly

2002ABLH



Pipe Thread	External Thread	Part No.
1/4-18 PTF	.880-14LH	2002ABLH*

* Thread Protectors

POL Cap with POL Female Thread

2004

Internal Thread	Part No.
.880-14LH	2004



Connectors

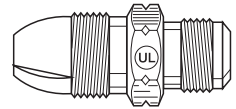
**2005, 6, 7;
2008**

(Size 3/8 flare to 1/4 FPT; 1/2 MPT)

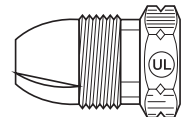
Straight Thread	Pipe Thread	External Thread	Part No.
5/8-18	--	.880-14LH	2005*
3/4-16	--	.880-14LH	2006*
7/8-14	--	.880-14LH	2007*
--	1/4-18+	.880-14LH	2008*

* Thread Protectors

+ Internal Thread



2005,6,7

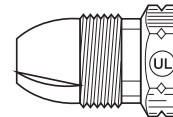


2008

POL Plug with POL Male Thread

2014

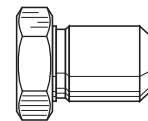
External Thread	Part No.
.880-14LH	2014



Cap Orifice

GF6

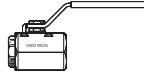
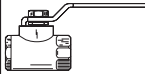
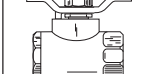



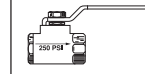
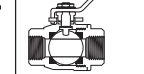
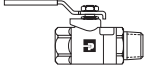
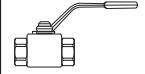
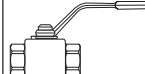
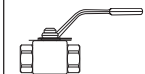

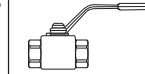
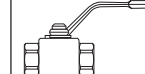
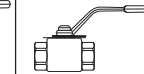
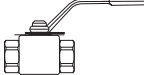

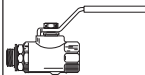




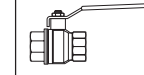

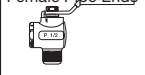


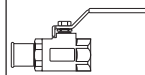







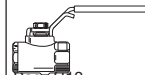



Straight Thread	Part No.
3/8-27	GF6-72
3/8-27	GF6-80



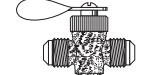


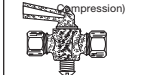
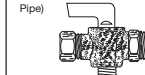
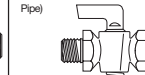
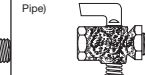
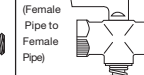
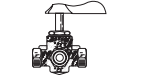

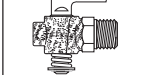





General Description	pg. H2*
See page 33 of introductory section for "How to Order" information	
<hr/>	
Visual Index	pg. H3
<hr/>	
Ball Valves	
Wide range of brass, carbon steel and stainless steel ball valves. For use as fuel shut-off lines and other general purpose applications that require shut-off capability.	
Note: Please refer to Catalog 3501-E for special working pressures and other technical data.	
	pg. H5
<hr/>	
Drain and Ground Plug Shutoff Cocks	
System temperature and the type of tubing should be considered. Ground plug shutoffs are designed to withstand 30 psi working pressure. Drain cocks are designed to withstand up to 150 psi working pressure, unless otherwise noted.	
	pg. H18
<hr/>	
Lanyard Valves	
For use with low pressure air systems such as air tanks on heavy trucks. Brass construction with specially formulated low temperature seal which remains elastic to temperatures as low as -40°F. Working Pressures up to 150 psi, Temperature Ranges -40°F to +200°F.	
	pg. H17
<hr/>	
Needle & Truck	
Up to 150 psi working pressure, unless otherwise noted.	
	pg. H13

Note: Please refer to Catalog 3501-E for further information.


Brass Valves/Ball


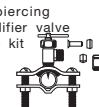


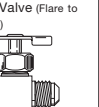
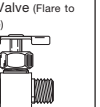
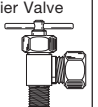
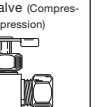
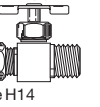
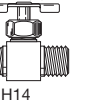
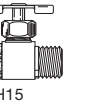
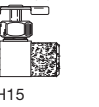
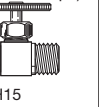

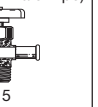
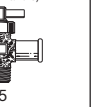





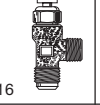
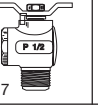
XV500CS Carbon Steel Ball Valve  Page H5	XV500P Brass Ball Valve  Page H5	XV500P-04 T Handle Brass Ball Valve  Page H5	XVP500P Locking Handle Brass Ball Valve  Page H5	XV500P Bronze Ball Valve  Page H5	XV500PUL UL Ball Valve  Page H5	XVV500P Vented Ball Valve  Page H6	XV500SS Stainless Steel Ball Valve  Page H6
XV501P Male/Female Ball Valve  Page H6	XV500HP Female-Female Pipe Ends  Page H6	XV500HP (LARGE) Female-Female Pipe Ends  Page H6	XVP500HP Locking-Female-Female Pipe Ends  Page H7	XVP500HP (LARGE) Locking-Female-Female Pipe Ends  Page H7	XV506HP Female-Female Pipe Ends  Page H7	XV506HP (LARGE) Female-Female Pipe Ends  Page H7	XVP506HP Locking-Female-Female Pipe Ends  Page H8
XVP506HP (LARGE) Locking-Female-Female Pipe Ends  Page H8	XV510P Male-Female Straight Thread O-Ring Port  Page H8	XVV510P Vented, Straight Thread O-Ring Port  Page H8	XVP510P Locking Handle Straight Thread O-Ring Port  Page H9	XVP510P Locking Handle Male-Female Straight Thread O-Ring Port  Page H9	XV510P-X-04 Tee Handle Straight Thread O-Ring Port  Page H9	XV510P-X-21 Oval Handle Straight Thread O-Ring Port  Page H9	XV520P Brass Ball Valve  Page H9
XV590P 90° Flow Male-Female Pipe Ends  Page H10	XV590P-X-04 Lever Handle 90° Flow Male-Female Pipe Ends  Page H10	XV591P 90° Flow Male-Male Pipe Ends  Page H10	XV591P-X-04 Lever Handle 90° Flow Male-Male Pipe Ends  Page H10	XV500P-HB Brass Hose Barb Ball Valve  Page H10	XV506P Female-Female Straight Thread O-Ring Port  Page H11	XV506P-20, -24, -32 Female-Female Straight Thread O-Ring Port  Page H11	XVP501P Vented, Locking Handle Male-Female Pipe Ends  Page H11
XV501P-X-04 Tee Handle Male-Female Pipe Ends  Page H11	XV501P-X-21 Oval Handle Male-Female Pipe Ends  Page H11	XV502P Female-Female Pipe Ends Panel Mount  Page H12	XVV502P Vented Female-Female Pipe Ends Panel Mount  Page H12	XVP502P Locking Handle Female Pipe Ends Panel Mount  Page H12	XVVP502P Vented Locking Handle Female Pipe Ends Panel Mount  Page H12	XV502P-X-04 Tee Handle Female Pipe Ends Panel Mount  Page H13	XV502P-X-21 Oval Handle Female Pipe Ends Panel Mount  Page H13

Brass Valves/Drain and Ground Plug Shutoff

V201F Brass Shutoff Cock (Flare to Flare)  Page H17	V203F Ground Plug Shutoff Cock (Flare to Flare)  Page H17	V204F Ground Plug Shutoff Cock (Flare to Male Pipe)  Page H17	V303C Ground Plug Shutoff Cock (Compression to Compression)  Page H17	V304C Ground Plug Shutoff Cock (Compression to Male Pipe)  Page H18	V401P Ground Plug Shutoff Cock (Male Pipe to Male Pipe)  Page H18	V402P Ground Plug Shutoff Cock (Female Pipe to Male Pipe)  Page H18	V403P Ground Plug Shutoff Cock (Female Pipe to Female Pipe)  Page H18
V406P Three-Way Valve (Female Pipe 3 Ends)  Page H18	V407P Four-Way Valve (Female Pipe 4 Ends)  Page H18	DC601 Drain Cock  Page H19	DCR601 Drain Cock  Page H19	DC602 Internal Seat Drain Cock  Page H19	DC603 Drain Cock  Page H19	DC606 External Seat Drain Cock  Page H19	DC607 Bib Drain Cock  Page H19

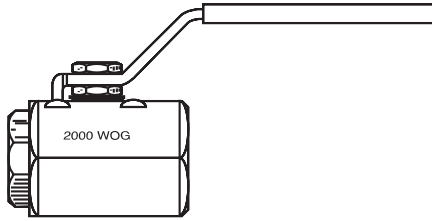
Brass Valves/Lanyard Valves

LV91 Lanyard Valve  Page H17							
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Brass Valves/Needle, Truck							
<p>HV104C-Kit Humidifier Valve Clamp Kit</p>  <p>Page H13</p>	<p>SPV104C-Kit Self-piercing humidifier valve clamp kit</p>  <p>Page H13</p>	<p>NV104C Angle-Needle Valve (Compression to Male Pipe)</p>  <p>Page H13</p>	<p>NV101F Angle Needle Valve (Flare to Male Pipe)</p>  <p>Page H13</p>	<p>NV102F Needle Valve (Flare to Male Pipe)</p>  <p>Page H14</p>	<p>NV103F Needle Valve (Flare to Male Pipe)</p>  <p>Page H14</p>	<p>HV104C Humidifier Valve (Compression to Male Pipe)</p>  <p>Page H14</p>	<p>NV105C Needle Valve (Compres- sion to Compression)</p>  <p>Page H14</p>
<p>NV106C Needle Valve (Compres- sion to Male Pipe)</p>  <p>Page H14</p>	<p>NV107P Humidifier Valve (Male Pipe to Male Pipe)</p>  <p>Page H14</p>	<p>NV108P Needle Valve (Female Pipe to Male Pipe)</p>  <p>Page H15</p>	<p>NV109P Needle Valve (Female Pipe to Female Pipe)</p>  <p>Page H15</p>	<p>NV311P Needle valve (Poly- Tite to Male Pipe)</p>  <p>Page H15</p>	<p>NV312P Angle Needle Valve (Poly-Tite to Male Pipe)</p>  <p>Page H15</p>	<p>V404P Truck Valve (Hose to Male Pipe)</p>  <p>Page H15</p>	<p>V404PH Truck Valve (Hose to Male Pipe with Pin Handle)</p>  <p>Page H15</p>
<p>SV404P Truck Valve (Hose to Male Pipe)</p>  <p>Page H16</p>	<p>V405P Truck Valve (Female Pipe to Male Pipe)</p>  <p>Page H16</p>	<p>V408NTA Truck Valve (Tube to Male Pipe)</p>  <p>Page H16</p>	<p>V409F Truck Valve (Flare to Male Pipe)</p>  <p>Page H16</p>	<p>V410NTA Truck Valve (Tube to Male Pipe)</p>  <p>Page H16</p>	<p>V412F Truck Valve (Tube to Male Pipe)</p>  <p>Page H16</p>	<p>XV590P-8 Truck Valve (Female Pipe to Male Pipe)</p>  <p>Page H17</p>	

Carbon Steel Ball Valve

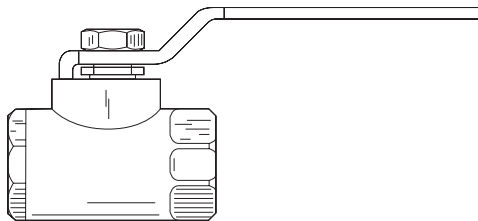
XV500CS



Pipe Thread	Part No.
1/4	XV500CS-4
3/8	XV500CS-6
1/2	XV500CS-8
3/4	XV500CS-12
1	XV500CS-16

Brass Ball Valve

XV500P

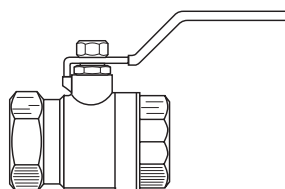


Pipe Thread	Part No.
1/4	XV500P-4
3/8	XV500P-6
1/2	XV500P-8
3/4	XV500P-12
1	XV500P-16

Bronze Ball Valve

XV500P

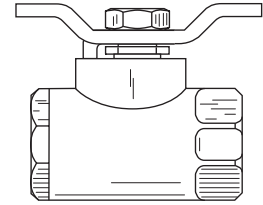
Pipe Thread	Part No.
1-1/4	XV500P-20
1-1/2	XV500P-24
2	XV500P-30



T Handle Brass Ball Valve

XV500P-04

Pipe Thread (PTF)	Part No.
1/4	XV500P-4-04
3/8	XV500P-6-04
1/2	XV500P-8-04
3/4	XV500P-12-04
1	XV500P-16-04

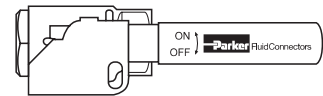


Locking Handle Brass Ball Valve

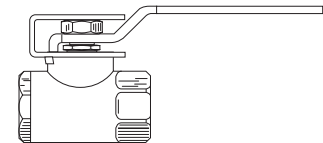
XVP500P

Pipe Thread (PTF)	Part No.
1/4	XVP500P-4
3/8	XVP500P-6
1/2	XVP500P-8
3/4	XVP500P-12
1	XVP500P-16

Top



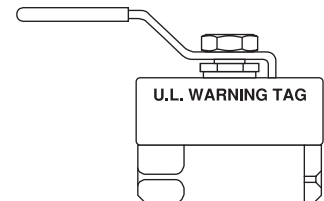
Side



UL Ball Valve

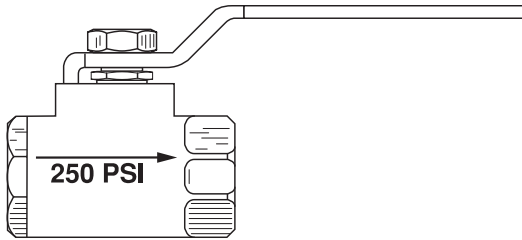
XV500PUL

Pipe Thread (PTF)	Part No.
1/4	XV500PUL-4
3/8	XV500PUL-6
1/2	XV500PUL-8
3/4	XV500PUL-12
1	XV500PUL-16



Vented Ball Valve

XV500P

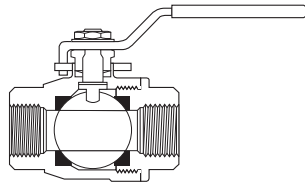


Pipe Thread	Part No.
1/4	XV500P-4
3/8	XV500P-6
1/2	XV500P-8
3/4	XV500P-12
1	XV500P-16

Stainless Steel Ball Valve

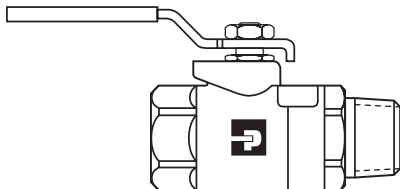
XV500SS

Pipe Thread (PTF)	Part No.
1/4	XV500SS-4
3/8	XV500SS-6
1/2	XV500SS-8
3/4	XV500SS-12
1	XV500SS-16
1-1/4	XV500SS-20
1-1/2	XV500SS-24
2	XV500SS-32



Male/Female Ball Valve

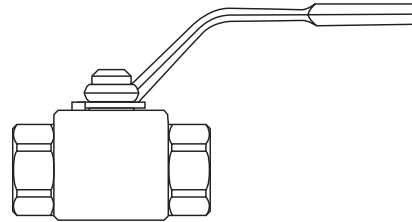
XV501P



Size	Part No.
1/4	XV501P-4
3/8	XV501P-6
1/2	XV501P-8
5/8	XV501P-10
3/4	XV501P-12
1	XV501P-16

6000 PSI Female-Female Pipe Ends

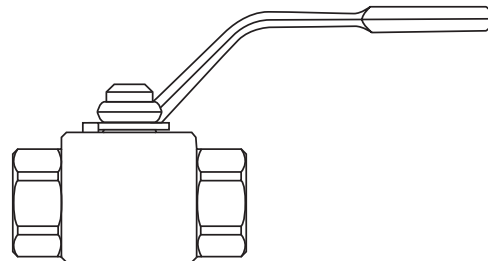
XV500HP



Pipe Thread	Part No.
1/4-18	XV500HP-4
3/8-18	XV500HP-6
1/2-14	XV500HP-8
3/4-14	XV500HP-12
1-11.5	XV500HP-16

6000 PSI Female-Female Pipe Ends

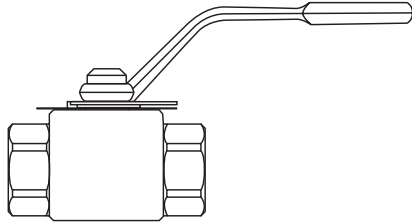
XV500HP (LARGE)



Pipe Thread	Part No.
1 1/4-11.5	XV500HP-20
1 1/2-11.5	XV500HP-24
2-11.5	XV500HP-32

6000 PSI
Locking-Female-Female
Pipe Ends

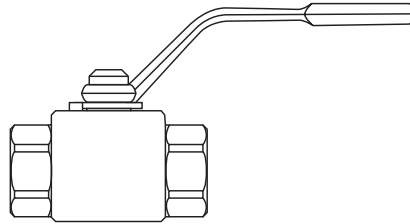
XVP500HP



Pipe Thread	Part No.
1/4-18	XVP500HP-4
3/8-18	XVP500HP-6
1/2-14	XVP500HP-8
3/4-14	XVP500HP-12
1-11.5	XVP500HP-16

6000 PSI Female-Female
Pipe Ends

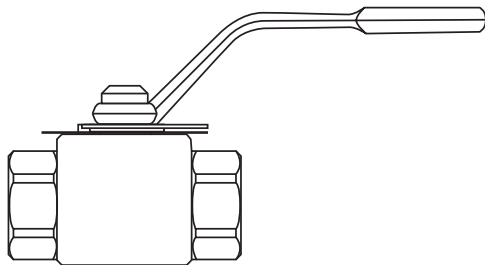
XV506HP



Straight Thread	Part No.
7/16-20 UNF	XV506HP-4
9/16-18 UNF	XV506HP-6
3/4-16 UNF	XV506HP-8
1 1/16-12 UNF	XV506HP-12
1 5/16-12 UNF	XV506HP-16

6000 PSI
Locking-Female-Female
Pipe Ends

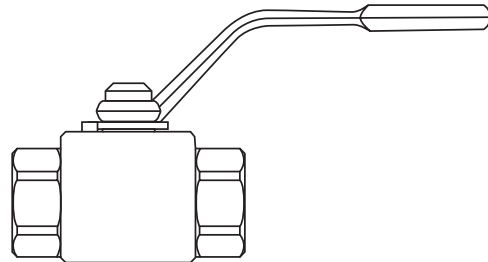
**XVP500HP
(LARGE)**



Pipe Thread	Part No.
1 1/4-11.5	XVP500HP-20
1 1/2-11.5	XVP500HP-24
2-11.5	XVP500HP-32

6000 PSI Female-Female
Pipe Ends

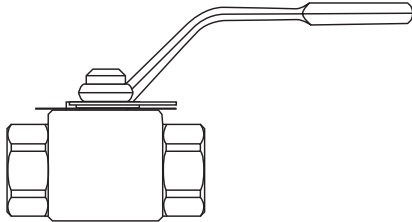
**XV506HP
(LARGE)**



Straight Thread	Part No.
1 5/8-12UNF	XV506HP-20
1 7/8-12 UNF	XV506HP-24
2 1/2-12 UNF	XV506HP-32

6000 PSI
Locking-Female-Female
Pipe Ends

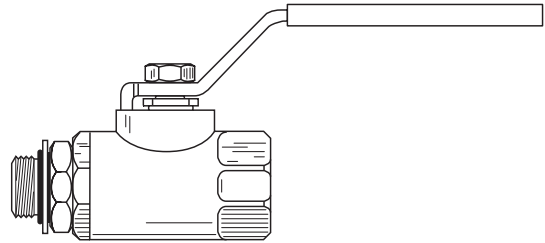
XVP506HP



Straight Thread	Part No.
7/16-20 UNF	XVP506HP-4
9/16-18 UNF	XVP506HP-6
3/4-16 UNF	XVP506HP-8
1 1/16-12 UNF	XVP506HP-12
1 5/16-12 UNF	XVP506HP-16

Male-Female Straight
Thread O-Ring Port

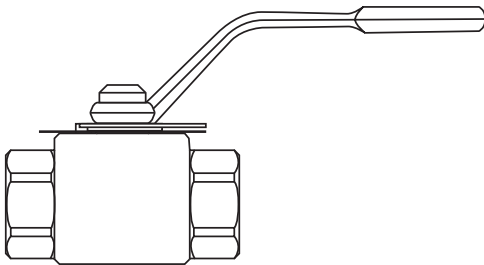
XV510P



Straight Thread	Part No.
7/16-20	XV510P-4
9/16-18	XV510P-6
3/4-16	XV510P-8
7/8-14	XV510P-10
1 1/16-12	XV510P-12
1 5/16-12	XV510P-16

6000 PSI
Locking-Female-Female
Pipe Ends

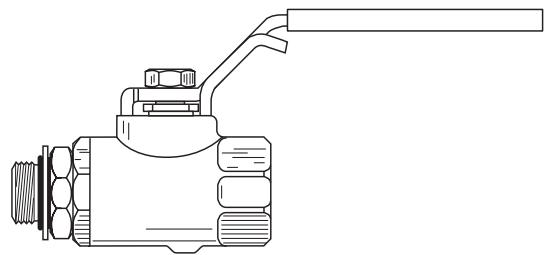
**XVP506HP
(LARGE)**



Straight Thread	Part No.
1 5/8-12UNF	XVP506HP-20
1 7/8-12 UNF	XVP506HP-24
2 1/2-12 UNF	XVP506HP-32

Vented, Straight Thread
O-Ring Port

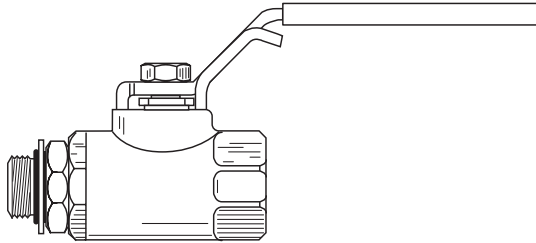
XVV510P



Straight Thread	Part No.
7/16-20	XVV510P-4
9/16-18	XVV510P-6
3/4-16	XVV510P-8
7/8-14	XVV510P-10
1 1/16-12	XVV510P-12
1 5/16-12	XVV510P-16

Locking Handle,
Straight Thread O-Ring Port

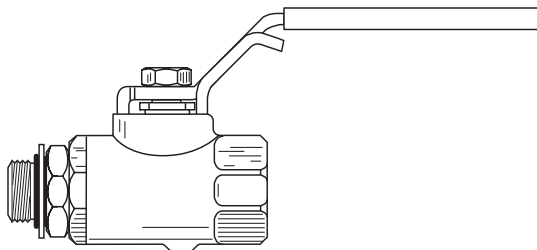
XVP510P



Straight Thread	Part No.
7/16-20	XVP510P-4
9/16-18	XVP510P-6
3/4-16	XVP510P-8
7/8-14	XVP510P-10
1 1/16-12	XVP510P-12

OSHA 29 CFR Part 1910
Vented, Locking Handle,
Male-Female Straight
Thread O-Ring Port

XVVP510P

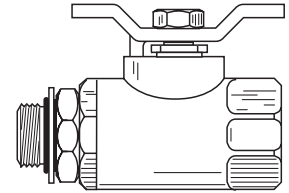


Straight Thread	Part No.
7/16-20	XVVP510P-4
9/16-18	XVVP510P-6
3/4-16	XVVP510P-8
7/8-14	XVVP510P-10
1 1/16-12	XVVP510P-12

Tee Handle,
Straight Thread O-Ring Port

XV510P-X-04

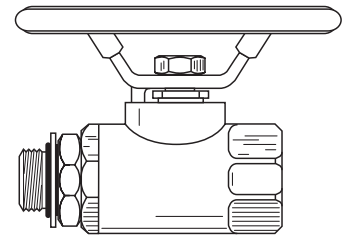
Straight Thread	Part No.
7/16-20	XV510P-4-04
9/16-18	XV510P-6-04
3/4-16	XV510P-8-04
7/8-14	XV510P-10-04
1 1/16-12	XV510P-12-04
1 5/16-12	XV510P-16-04



Oval Handle,
Straight Thread O-Ring Port

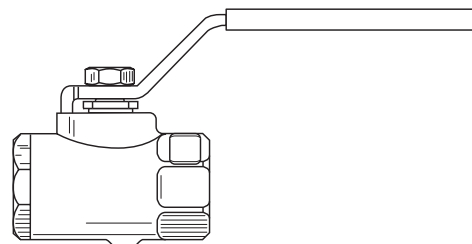
XV510P-X-21

Straight Thread	Part No.
7/16-20	XV510P-4-21
9/16-18	XV510P-6-21
3/4-16	XV510P-8-21



Brass Ball Valve

XV520P

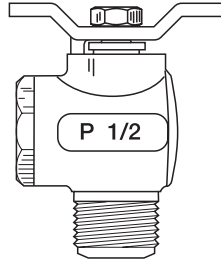


Straight Thread	Part No.
1/4-18	XV520P-4
3/8-18	XV520P-6
1/2-14	XV520P-8
3/4-14	XV520P-12
1-11.5	XV520P-16
1-1/4	XV520P-20
1-1/2	XV520P-24
2	XV520P-32

90° Flow, Male-Female
Pipe Ends

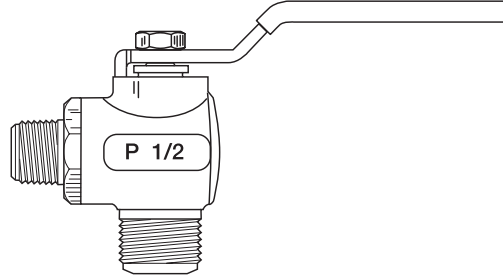
XV590P

Pipe Thread	Part No.
1/4	XV590P-4
3/8	XV590P-6
1/2	XV590P-8



Lever Handle, 90° Flow,
Male-Male Pipe Ends

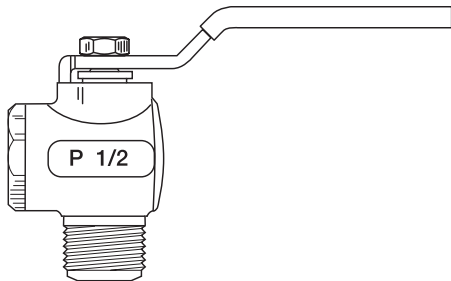
XV591P-X-04



Pipe Thread	Part No.
1/4	XV591P-4-04
3/8	XV591P-6-04
1/2	XV591P-8-04

Lever Handle, 90° Flow,
Male-Female Pipe Ends

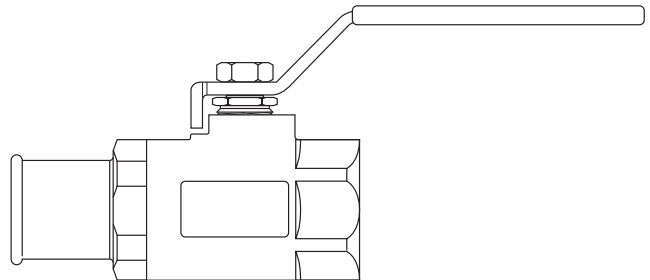
XV590P-X-04



Pipe Thread	Part No.
1/4	XV590P-4-04
3/8	XV590P-6-04
1/2	XV590P-8-04

Brass Hose Barb Ball Valve

XV500P-HB



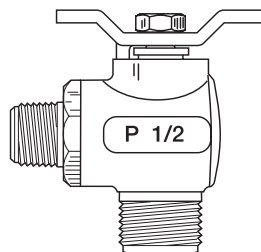
Port 1	Port 2 PTF	Part No.
1	3/4*	XV500P-HB

*PTF special extra short

90° Flow, Male-Male
Pipe Ends

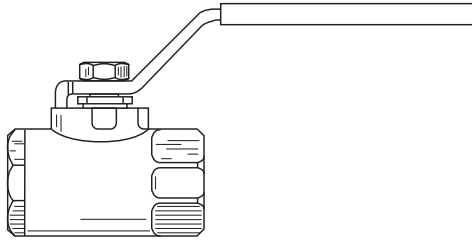
XV591P

Pipe Thread	Part No.
1/4	XV591P-4
3/8	XV591P-6
1/2	XV591P-8



Female-Female,
Straight Thread O-Ring Port

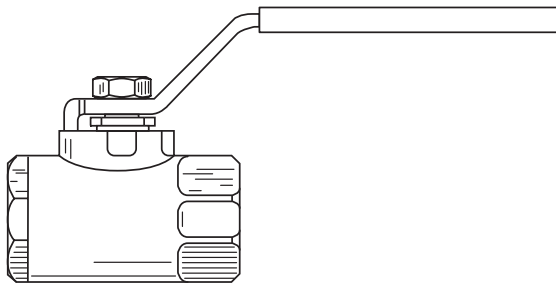
XV506P



Straight Thread	Part No.
7/16-20	XV506P-4
9/16-18	XV506P-6
3/4-16	XV506P-8
1 1/16-12	XV506P-12
1 5/16-12	XV506P-16

Female-Female,
Straight Thread O-Ring Port

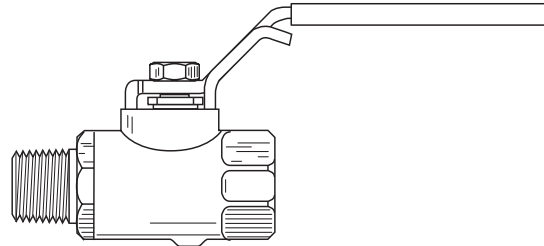
**XV506P-20,
-24, -32**



Straight Thread	Part No.
1 5/8-12	XV506P-20
1 7/8-12	XV506P-24
2 1/2-12	XV506P-32

OSHA 29 CFR Part 1910
Vented, Locking Handle,
Male-Female Pipe Ends

XVVP501P



Pipe Thread	Part No.
1/4	XVVP501P-4
3/8	XVVP501P-6
1/2	XVVP501P-8
3/4*	XVVP501P-12
1*	XVVP501P-16

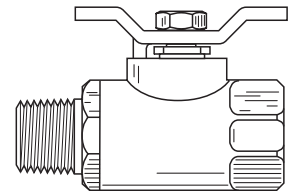
*Special Short

Tee Handle, Male-Female
Pipe Ends

XV501P-X-04

Pipe Thread	Part No.
1/4	XV501P-4-04
3/8	XV501P-6-04
1/2	XV501P-8-04
3/4*	XV501P-12-04
1*	XV501P-16-04

*Special Short

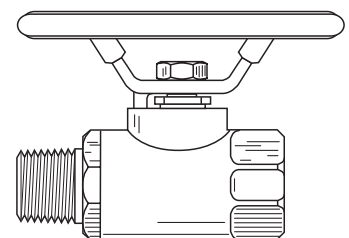


Oval Handle, Male-Female
Pipe Ends

XV501P-X-21

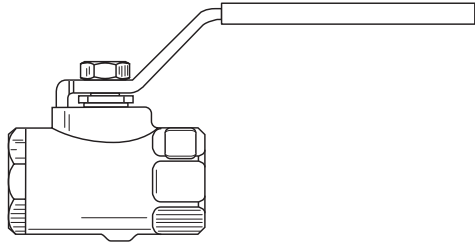
Pipe Thread	Part No.
1/4	XV501P-4-21
3/8	XV501P-6-21
1/2	XV501P-8-21
3/4*	XV501P-12-21
1*	XV501P-16-21

*Special Short



Female-Female Pipe Ends,
Panel Mount

XV502P

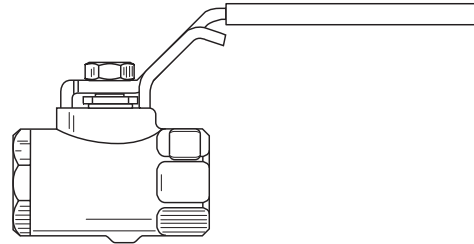


Pipe Thread	Part No.
1/4	XV502P-4
3/8	XV502P-6
1/2	XV502P-8
3/4*	XV502P-12
1*	XV502P-16

*Special Short

Locking Handle, Female
Pipe Ends, Panel Mount

XVP502P

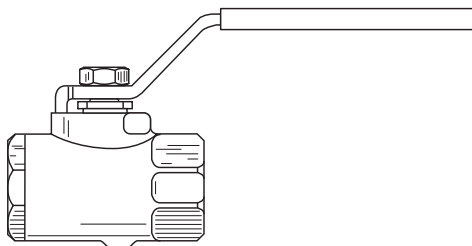


Pipe Thread	Part No.
1/4	XVP502P-4
3/8	XVP502P-6
1/2	XVP502P-8
3/4*	XVP502P-12
1*	XVP502P-16

*Special Short

Vented, Female-Female
Pipe Ends, Panel Mount

XVV502P

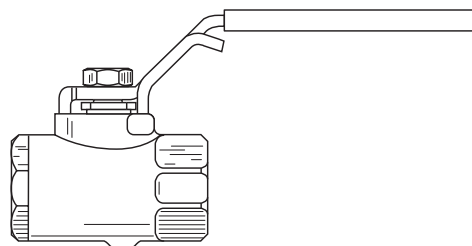


Pipe Thread	Part No.
1/4	XVV502P-4
3/8	XVV502P-6
1/2	XVV502P-8
3/4*	XVV502P-12
1*	XVV502P-16

*Special Short

OSHA 29 CFR Part 1910
Vented, Locking Handle,
Female Pipe Ends,
Panel Mount

XVVP502P



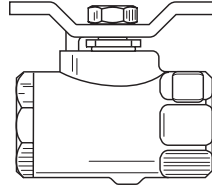
Pipe Thread	Part No.
1/4	XVVP502P-4
3/8	XVVP502P-6
1/2	XVVP502P-8
3/4*	XVVP502P-12
1*	XVVP502P-16

*Special Short

Tee Handle, Female Pipe Ends, Panel Mount

XV502P-X-04

Pipe Thread	Part No.
1/4	XV502P-4-04
3/8	XV502P-6-04
1/2	XV502P-8-04
3/4*	XV502P-12-04
1*	XV502P-16-04

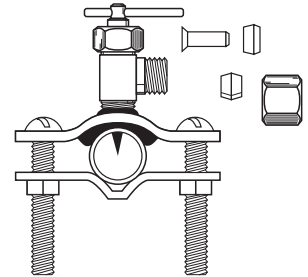


*Special Short

Self-Piercing Humidifier Valve Clamp Kit

SPV104C-Kit

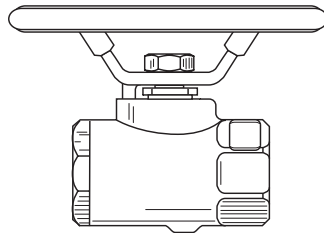
Pipe Thread	Tube Size	Part No.
1/8	1/4	SPV104C KIT



Oval Handle, Female Pipe Ends, Panel Mount

XV502P-X-21

Pipe Thread	Part No.
1/4	XV502P-4-21
3/8	XV502P-6-21
1/2	XV502P-8-21
3/4*	XV502P-12-21
1*	XV502P-16-21

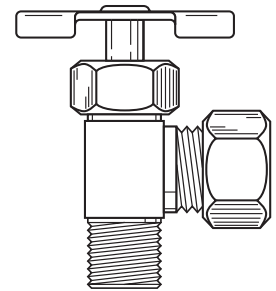


*Special Short

Angle-Needle Valve (Compression to Male Pipe)

NV104C

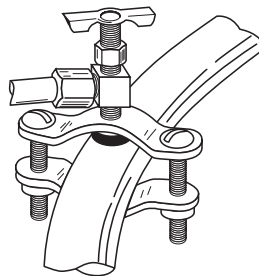
Pipe Thread	Tube Size	Part No.
1/8	1/4	NV104C-4-2*
1/4	1/4	NV104C-4-4
1/8	5/16	NV104C-5-2*
1/4	3/8	NV104C-6-4



Humidifier Valve Clamp Kit

HV104C-Kit

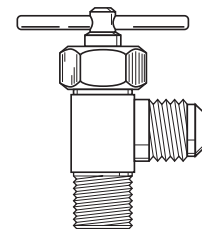
Pipe Thread	Tube Size	Part No.
1/8	1/4	HV104C-4-2 KIT



Angle Needle Valve (Flare to Male Pipe)

NV101F

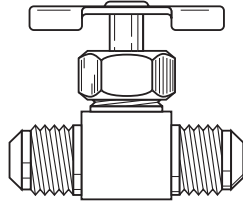
Pipe Thread	Tube Size	Part No.
1/8	1/4	NV101F-4-2
1/4	3/8	NV101F-6-4



**Needle Valve
(Flare to Male Pipe)
*Provided with Pin Handle**

NV102F

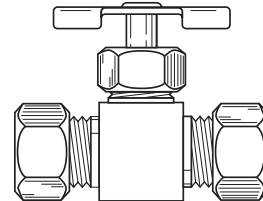
Tube Size	Part No.
1/4	NV102F-4*
3/8	NV102F-6



**Needle Valve
(Compression to Compression) *Provided with Pin Handle**

NV105C

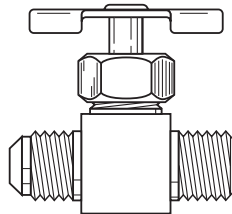
Tube Size	Part No.
1/4	NV105C-4*
5/16	NV105C-5*
3/8	NV105C-6



**Needle Valve
(Flare to Male Pipe)
*Provided with Pin Handle**

NV103F

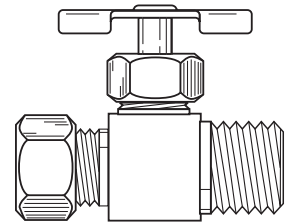
Pipe Thread	Tube Size	Part No.
1/8	1/4	NV103F-4-2*
1/4	3/8	NV103F-6-4



**Needle Valve
(Compression to Male Pipe)
*Provided with Pin Handle**

NV106C

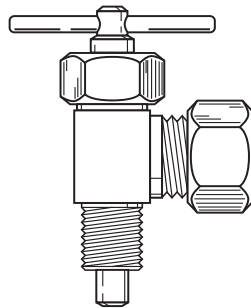
Pipe Thread	Tube Size	Part No.
1/8	1/4	NV106C-4-2*
1/4	1/4	NV106C-4-4*
1/8	5/16	NV106C-5-2*
1/4	3/8	NV106C-6-4



**Humidifier Valve
(Compression to Male Pipe)**

HV104C

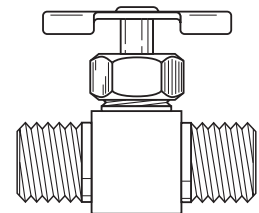
Pipe Thread	Tube Size	Part No.
1/8	1/4	HV104C-4-2



**Humidifier Valve
(Male Pipe to Male Pipe)
*Provided with Pin Handle**

NV107P

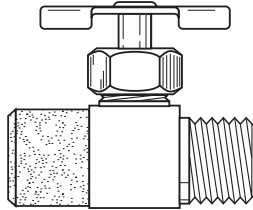
Pipe Thread	Part No.
1/8	NV107P-2*
1/4	NV107P-4



**Needle Valve
(Female Pipe to Male Pipe)
*Provided with Pin Handle**

NV108P

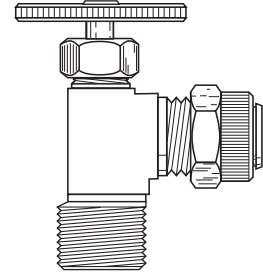
Pipe Thread	Part No.
1/8	NV108P-2*
1/4	NV108P-4



**Angle Needle Valve
(Poly-Tite to Male Pipe)**

NV312P

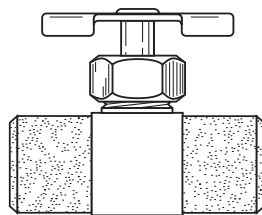
Pipe Thread	Tube Size	Part No.
1/8	1/4	NV312P-4-2
1/4	1/4	NV312P-4-4
1/4	3/8	NV312P-6-4



**Needle Valve
(Female Pipe to Female Pipe)
*Provided with Pin Handle**

NV109P

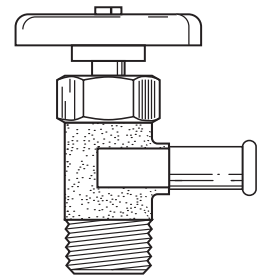
Pipe Thread	Part No.
1/8	NV109P-2*
1/4	NV109P-4



**Truck Valve
(Hose to Male Pipe)**

V404P

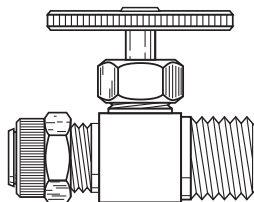
Pipe Thread	Hose I.D.	Part No.
3/8	3/8	V404P-6-6
3/8	5/8	V404P-10-6



**Needle Valve
(Poly-Tite to Male Pipe)**

NV311P

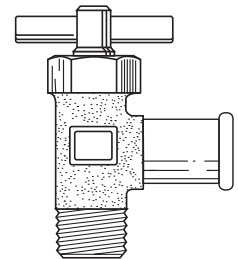
Pipe Thread	Tube Size	Part No.
1/8	1/4	NV311P-4-2
1/4	1/4	NV311P-4-4
1/4	3/8	NV311P-6-4



**Truck Valve
(Hose to Male Pipe
with Pin Handle)**

V404PH

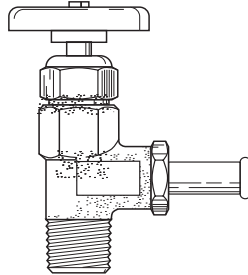
Pipe Thread	Hose I.D.	Part No.
3/8	5/8	V404PH-10-6



**Truck Valve
(Hose to Male Pipe)**

SV404P

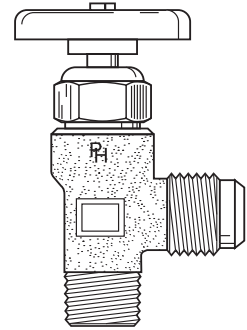
Pipe Thread	Hose I.D.	Part No.
1/2	5/8	SV404P-10-8
3/8	3/4	SV404P-12-6
1/2	3/4	SV404P-12-8



**Truck Valve
(Flare to Male Pipe)**

V409F

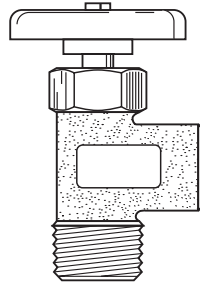
Pipe Thread	Tube Size	Part No.
3/8	1/2	V409F-8-6
1/2	1/2	V409F-8-8
1/2	5/8	V409F-10-8
3/8	3/4	V409F-12-8



**Truck Valve
(Female Pipe to Male Pipe)**

V405P

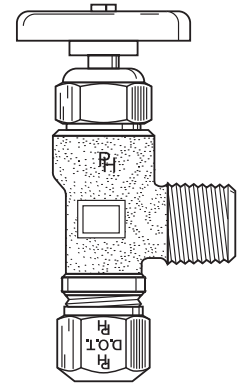
Female Pipe Thread	Male Pipe Thread	Part No.
3/8	3/8	V405P-6-6
3/8	1/2	V405P-6-8
1/2	1/2	V405P-8-8



**Truck Valve
(Tube to Male Pipe)**

V410NTA

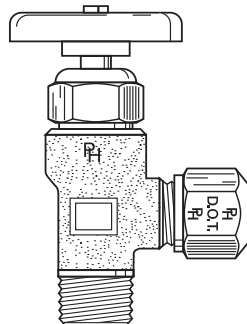
Pipe Thread	Tube Size	Part No.
1/2	1/2	V410NTA-8-8



**Truck Valve
(Tube to Male Pipe)**

V408NTA

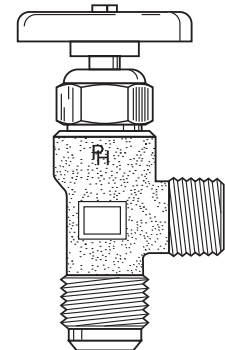
Pipe Thread	Tube Size	Part No.
1/2	1/2	V408NTA-8-8
1/2	5/8	V408NTA-10-8



**Truck Valve
(Tube to Male Pipe)**

V412F

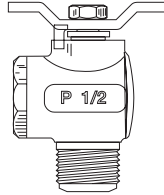
Pipe Thread	Tube Size	Part No.
1/2	5/8	V412F-10-8



**Truck Valve
(Female Pipe to Male Pipe)**

XV590P-8

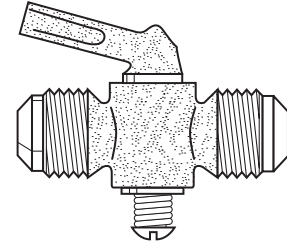
Female Pipe Thread	Male Pipe Thread	Part No.
1/2	1/2	XV590P-8



**Ground Plug Shutoff Cock
(Flare to Flare)**

V203F

Tube Size	Part No.
1/4	V203F-4-4
3/8	V203F-6-6
1/2	V203F-8-8



Lanyard Valve

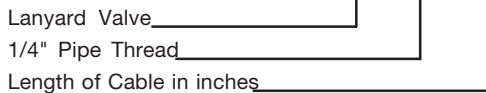
LV91



Nomenclature

Part numbers are constructed from symbols that identify size of fitting and length of cable.

Example: LV91 -4 -060

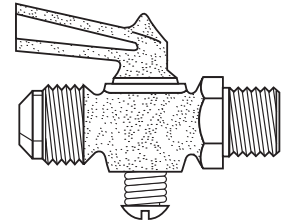


Pipe Thread	Cable Length	Part No.
1/4	36"	LV91-4-036
1/4	48"	LV91-4-048
1/4	60"	LV91-4-060

**Ground Plug Shutoff Cock
(Flare to Male Pipe)**

V204F

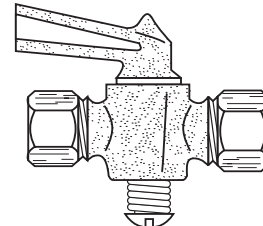
Pipe Thread	Tube Size	Part No.
1/8	1/4	V204F-4-2
1/4	3/8	V204F-6-4



**Ground Plug Shutoff Cock
(Compression to Compression)**

V303C

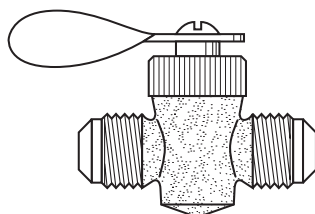
Tube Size	Part No.
1/4	V303C-4-4
3/8	V303C-6-6



**Brass Shutoff Cock
(Flare to Flare)**

V201F

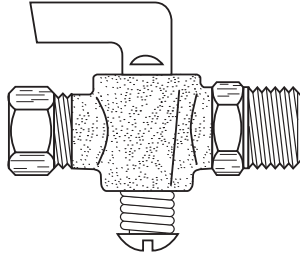
Tube Side	Part No.
3/8	V201F-6-6
1/2	V201F-8-8



**Ground Plug Shutoff Cock
 (Compression to Male Pipe)**

V304C

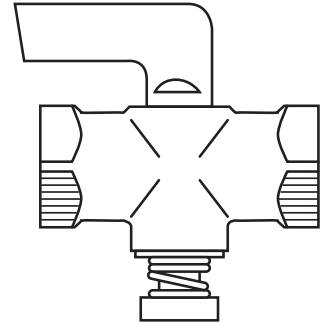
Pipe Thread	Tube Size	Part No.
1/8	1/4	V304C-4-2
1/4	1/4	V304C-4-4
1/4	3/8	V304C-6-4



**Ground Plug Shutoff Cock
 (Female Pipe to Female Pipe)**

V403P

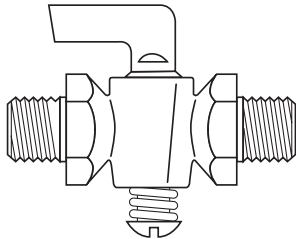
Female Pipe Thread	Part No.
1/8	V403P-2-2
1/4	V403P-4-4
3/8	V403P-6-6*



**Ground Plug Shutoff Cock
 (Male Pipe to Male Pipe)**

V401P

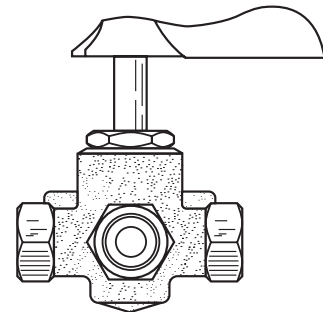
Pipe Thread	Part No.
1/8	V401P-2-2
1/4	V401P-4-4



**Three-Way Valve
 (Female Pipe Three Ends)**

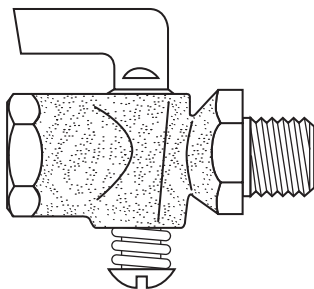
V406P

Pipe Thread	Part No.
1/4	V406P-4



**Ground Plug Shutoff Cock
 (Female Pipe to Male Pipe)**

V402P

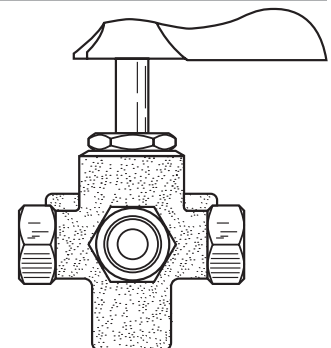


Female Pipe Thread	Pipe Thread	Part No.
1/8	1/8	V402P-2-2
1/4	1/4	V402P-4-4
3/8	3/8	V402P-6-6

**Four-Way Valve
 (Female Pipe Four Ends)**

V407P

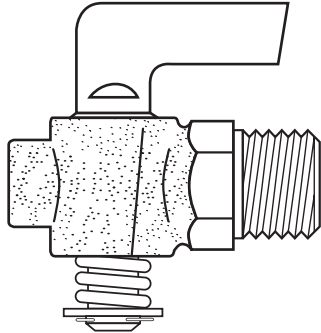
Pipe Thread	Part No.
1/4	V407P-4



Drain Cock

DC601

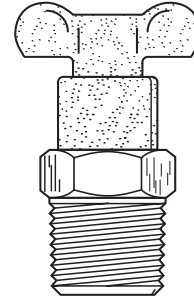
Pipe Thread	Part No.
1/8	DC601-2
1/4	DC601-4
3/8	DC601-6
1/2	DC601-8



Drain Cock

DC603

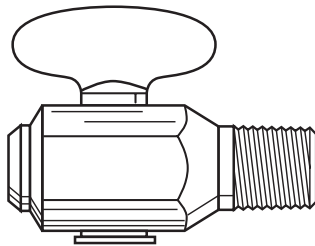
Pipe Thread	Part No.
1/8	DC603-2
1/4	DC603-4
3/8	DC603-6



Drain Cock

DCR601

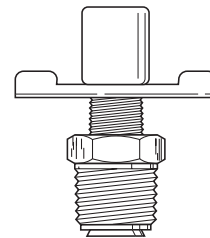
Pipe Thread	Part No.
1/4	DCR601-4



External Seat Drain Cock

DC606

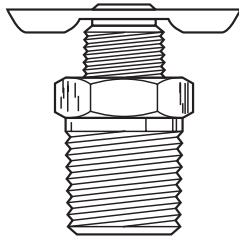
Pipe Thread	Part No.
1/4-18	DC606-4



Internal Seat Drain Cock

DC602

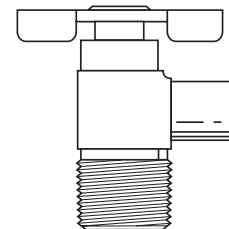
Pipe Thread	Part No.
1/8	DC602-2
1/4	DC602-4

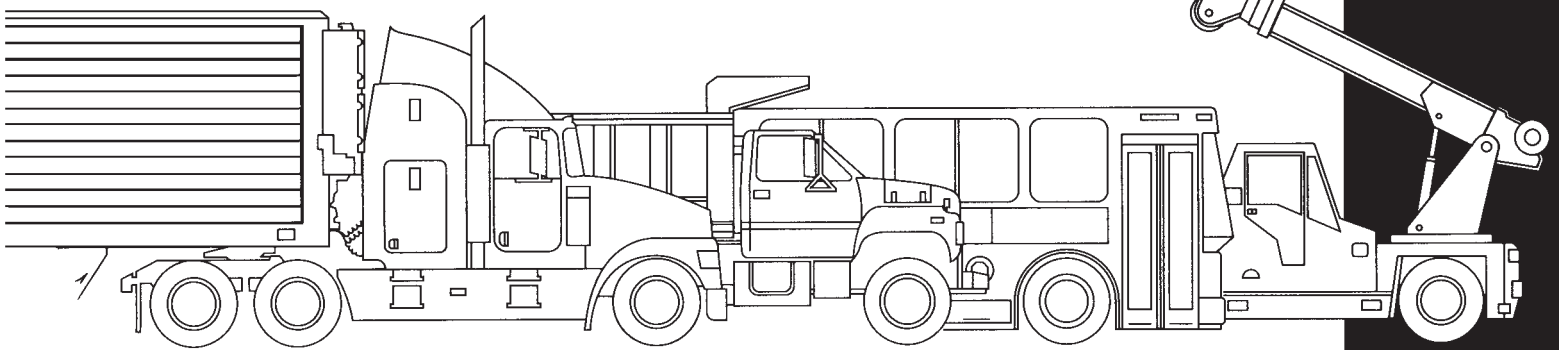
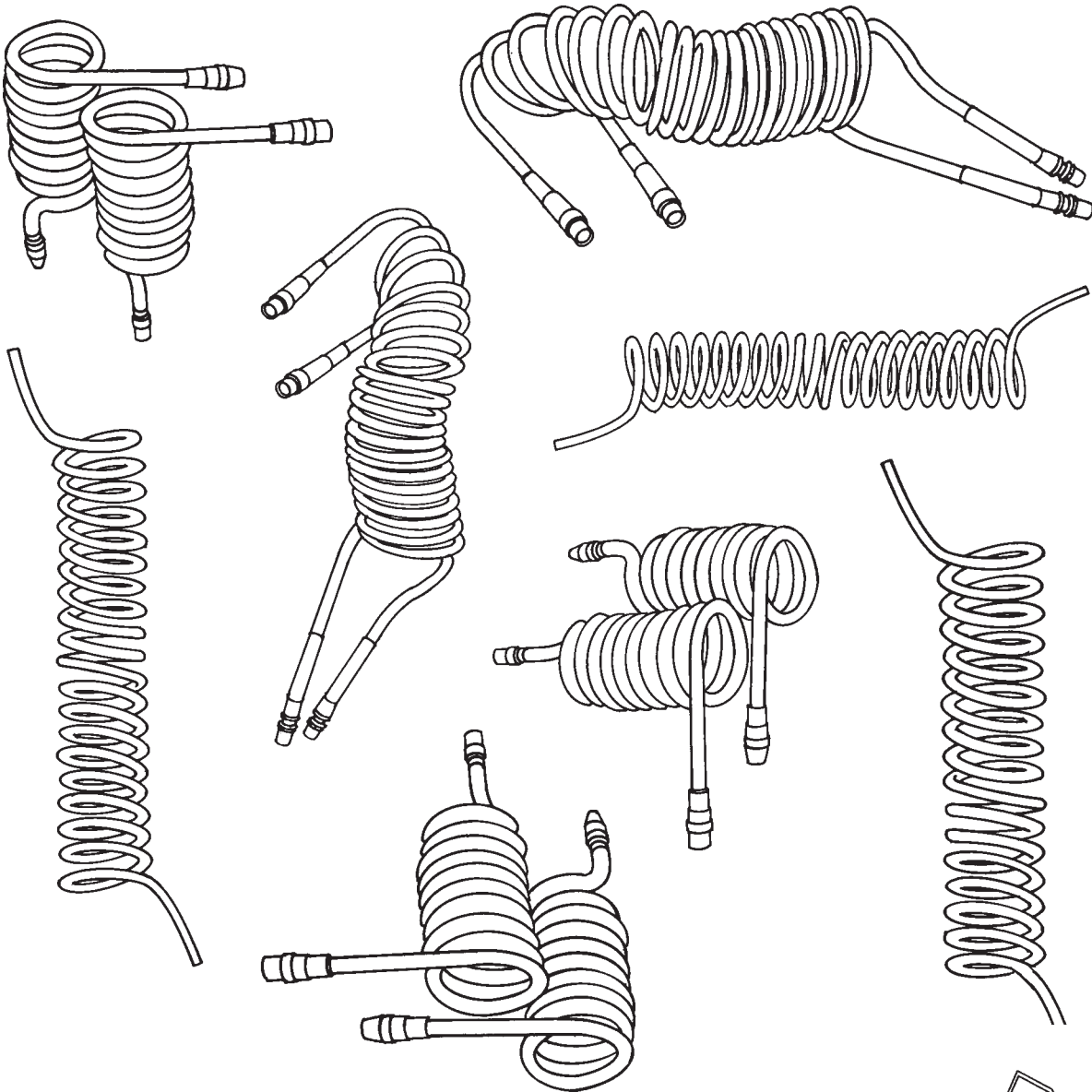


Bib Drain Cock

DC607

Pipe Thread	Tube Size	Part No.
1/4	3/8	DC607-4





Air Brake Tubing

SAE J844 nylon tubing designed for use in air brake systems.

pg. 13

BrakCoil®

Tractor to trailer coiled nylon air brake assembly.

pg. 14

DollyCoil™

Coiled air brake tubing used between double trailers on converter dollies.

pg. 16

Duo-Coil

Tractor to trailer coiled nylon air brake assembly that incorporates both the service and emergency lines into a single unit.

pg. 15

Fifth Wheel Slider

Coiled tubing used for fifth wheel sliding action.

pg. 17

Parflex Diesel Fuel Tubing

Nylon tubing designed for use in tractor-trailer and other mobile fuel systems.

pg. 13

SliderCoil™

Coiled air brake tubing used between an adjustable rear wheel axle and the final point on a trailer chasis.

pg. 16

Air Brake Tubing

Parflex Tubing— Nylon tubing designed for use in tractor-trailer and other mobile air brake, fuel, instrumentation and air accessory systems. Meets SAE J844 Type A or B and performance requirements as specified in SAE J1131.

- 100% quality controlled—100% pressure tested.
- Saves weight and labor in comparison with copper tubing.
- Heat and light stabilized.
- Colors available: Black, red, blue, green, yellow, orange, brown, purple and silver.

PFT Type A

Heat and light stabilized single wall extruded type 11 nylon tubing.



Available in sizes 1/8 (-2) 1/4 (-4) and 5/16 (-5).

This tubing conforms to SAE specification J844 type A. The A refers to non-reinforced tubing.

Temperature Range: -40°F to +200°F (-40°C to +93°C)

Maximum Working Pressure: 150 PSI

Sizes -4 and -5 meet DOT FMVSS 106 (Size -2 does not meet DOT FMVSS106).

Tube O.D.	Min. Bend Radius	Part No.
1/8"	3/8	PFT 2A
5/32"	1/2	PFT 2.5A
1/4"	1	PFT 4A
5/16"	1 1/4	PFT 5A

PFT Type B



Heat and light stabilized seamless extruded nylon 11 core reinforced with one open ply of fibrous reinforcement and a protective nylon 11 cover sheath. The outer cover and core are fused to minimize leakage and maximize impact resistance and are always of contrasting colors.

This tubing conforms to SAE J844 type B. The B refers to reinforced tubing.

Temperature Range: -40°F to +200°F (-40°C to +93°C)

Working Pressure: 150 PSI

Meets DOT FMVSS 106.

Air Brake (AB) Fittings

Use AB fittings with copper tubing in air brake systems. Bodies (with addition of NTA tube support) are interchangeable with NTA bodies for use on SAE J844 nylon tubing. See pages G12-G14.

Air Brake (NTA) Fittings

Use NTA fittings with SAE J844 type A and B nylon tubing on air brake systems or in Cab air controls. Bodies (less tube supports) are interchangeable with Stock AB (SAE J246) fitting bodies.

See pages G14-G17.

Prestomatic Air Brake Fittings

Use Prestomatic "push to connect" air brake fittings with SAE J844 type A and B nylon tubing on air brake systems or in cab air controls. See pages G8-G11.

Tube O.D.	Min. Bend Radius	Part No.
3/8"	1 1/2	PFT-6B
1/2"	2	PFT-8B
5/8"	2 1/2	PFT-10B
3/4"	3	PFT-12B

Parflex Diesel Fuel Tubing

Parflex FL Tubing — Nylon tubing designed for use in tractor-trailer and other mobile fuel systems. Meets SAE specification J844 Type B and performance requirements as specified in SAE specification J1131.

- 100% quality controlled—100% pressure tested.
- Saves weight and labor in comparison with hose and hardline tubing.
- Heat and light stabilized.
- For use in Diesel Fuel applications
- Do not exceed temperature and pressure ranges.



PFT Type B

Heat and light stabilized seamless extruded nylon core reinforced with one open ply of fibrous reinforcement and a protective nylon cover sheath.

This tubing conforms to SAE specification J844 type B. The B refers to reinforced tubing.

Temperature Range: -40°F to +200°F (-40°C to +93°C)

Maximum Working Pressure: 150 PSI

Contact Parflex Division for application review.

Tube O.D.	Min. Bend Radius	Part No.
3/8"	1 1/2	PFT-6B-BLU-500-FL
1/2"	2	PFT-8B-BLU-500-FL
5/8"	2 1/2	PFT-10B-BLU-250-FL

BrakCoil®

Tractor to Trailer Coiled Nylon Air-Brake Connections

You get it all with Parker BrakCoil—designed for just about any tractor/trailer air-brake application you will need for trouble free service on your rig.

Parker BrakCoil offers you these other features and advantages:

- Limited lifetime warranty on cold weather cracking*
- Years of city delivery and line haul testing
- Maintenance free performance
- Heavy duty cadmium plated spring guards that are rust resistant for added protection
- More coils offer you maximum working lengths
- No need for pogo sticks or spring hangers
- Color coding gives you mistake-free hook-ups blue for service-red for emergency
- **Temperature range:** Meets or exceeds SAE J844 and DOT FMVSS 106 specifications at -40°F to +200°F. In addition, Parker has tested and approved this product for -70°F to +200°F.
- Wide selection of configurations to suit any rig connections need
- **Extended BrakCoil handle available.** Simply add an “H” after the Kit Coil Number to designate the extended handle option.

Example: 731516H



How to Order

BrakCoil kits are supplied complete—Parker preassembled. Everything needed including spring guards and male pipe end NTA fittings ready to install. No cutting or assembly necessary. Just attach the gladhand to either end. They are available in kits or as separate lines. A kit consists of both a red and blue tube assembly.

Tube O.D.	Valve Tail Length	Male Ends		Working Length	Number of Coils	Application	Individual Coil Part Number	Kit Coil Number
		Valve	Gladhand					
-8	12"	1/2	1/2	15'	22-1/2	Tractor to Trailer	731512-Red 731512-Blue	731516**
-8	12"	3/8	1/2	15'	22-1/2	Tractor to Trailer	731611-Red 731611-Blue	751597
-8	40"	1/2	1/2	15'	22-1/2	Tractor to Trailer	731513-Red 731513-Blue	731522**
-8	40"	3/8	1/2	15'	22-1/2	Tractor to Trailer	731612-Red 731612-Blue	741526
-8	6"	1/2	1/2	12'	19-1/2	Tractor to Trailer	741590-Red 741590-Blue	751641**
-8	6"	3/8	1/2	12'	19-1/2	Tractor to Trailer	751656 Black Only	751655
-8	12"	1/2	1/2	15'	22-1/2	Tractor to Trailer	6 Each 731512-Red 731512-Blue	791500 Display Kit
-8	12"	1/2	1/2	15'	22-1/2	Replacement Paks for 791500	811510-Red 811511-Blue	Single Pak
-4	—	—	—	54"	—	Fifth Wheel Slider Coil	811537	Fifth Wheel Slider

* See warranty for details.

** Extended BrakCoil handle available. Add “H” to the end of the Kit Coil Number to designate the extended handle option.

Duo-Coil Features

Newly designed Parker Duo-Coil combines both tractor-to-trailer lines (service and emergency) into a strong single unit. The specially designed Duo-Coil will provide years of trouble-free service.

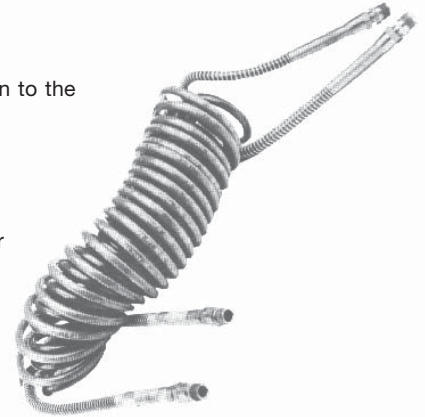
Parker Duo-Coil has built in the following features:

- Reverse winding of the coiled air brake lines eliminates the possibility of tangling.
- Installation swivel fittings make hook-up a snap.
- The inner red emergency coil is wound inside the blue service coil offering added protection to the driver.
- The single unit provides clean and neat installation.

Application

The right connection for quick, trouble-free hook-up between your tractor and trailer. Whether it's an extended trailer with outboard valve ports on the chassis or high or low air ports on the cab, Parker Duo-Coil has the right configuration for your rig.*

* Parker Duo-Coil assemblies fully comply with D.O.T. requirements covering coiled nylon brake tubing as stated in Chapter III- Federal Highway Administration, Department of Transportation, Subchapter B- Motor Carrier Safety Regulations (Docket No. MC-41; Notice No. 73-9), Part 393-Parts and Accessories Necessary for Safe Operation.



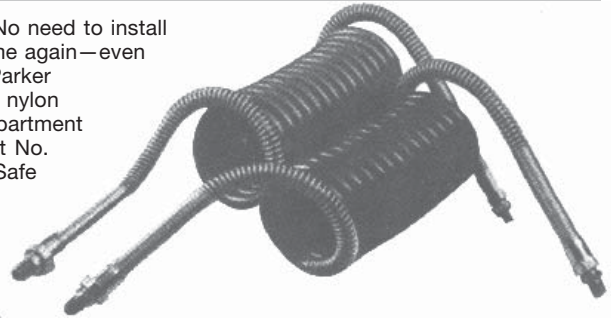
How to Order

Duo-Coil kits are supplied completely pre-assembled, with everything needed including spring guards and pipe end NTA fittings, ready to install. No cutting or fitting assembly is necessary. Just attach the gladhand to either end. Nylon tubing used in Duo-Coil conforms to SAE J844d (Revision c), Type 3B (3B refers to reinforced tubing).

Tube O.D.	Valve Tail Length	Male Ends (NPT) Valve	Male Ends (NPT) Glad Hand	Working Length	Number of Coils	Kit Coil No.
-8	12"	1/2"	1/2"	15"	20-1/2	801048
-8	6"	1/2"	1/2"	12"	18-1/2	801632
-8	40"	1/2"	1/2"	15"	21-1/2	801595

DollyCoil™

The Parker DollyCoil is used between double trailers on converter dollies. No need to install springs or hangers as DollyCoil will retract to its original shape time and time again—even after long periods of extended use. Standard working lengths are 6 feet. Parker DollyCoil assemblies fully comply with D.O.T. requirements covering coiled nylon brake tubing as stated in Chapter III—Federal Highway Administration, Department of Transportation, Subchapter B—Motor Carrier Safety Regulations (Docket No. MC-41; Notice No. 73-9), Part 393—Parts and Accessories Necessary for Safe Operation.



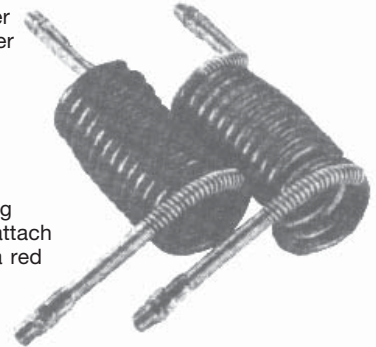
How to Order

DollyCoil kits are supplied complete—Parker preassembled. Everything needed including spring guards and male pipe end NTA fittings ready to install. No cutting or assembly necessary. Just attach the gladhand to either end. They are available in kits or as separate lines. A kit consists of both a red and blue tube assembly.

Tube O.D.	Thread Size Valve 90° End	Thread Size Gladhand 180° End	Valve Tail Length	Coils	Working Length Range	Application	Color	Individual Coil Part Number Price = 1/2 Kit Price	Kit Part No.
-8	1/2	1/2	8"	12	6'	Convert, Dollies	Blue, Red	751635-Red 751635-Blue	751634

SliderCoil™

The Parker SliderCoil is used between an adjustable rear trailer axle and the final point on a trailer chassis. No need to install springs or hangers. SliderCoil will retract to its original shape even after long periods of extended use. Standard working length is 6 to 8 feet. It meets all D.O.T. requirements—Title 49,—Transportation Chapter III,—Federal Highway Administration,—D.O.T. (Docket No. MC-68; Notice No. 75-16), Part 393, Parts and Accessories Necessary for Safe Operation.



How to Order

SliderCoil kits are supplied complete—Parker preassembled. Everything needed including spring guards and male pipe end NTA fittings ready to install. No cutting or assembly necessary. Just attach the gladhand to either end. They are available in kits or as separate lines. A kit consists of both a red and blue tube assembly.

Tube O.D.	Thread Size Valve 90° End	Thread Size Gladhand 180° End	Valve Tail Length	Coils	Working Length Range	Application	Color	Kit Part No.
-8	1/4	1/4	8"	14.5	6' - 8'	Sliding	Blue, Red	751657
-8	3/8	3/8	8"	14.5	6' - 8'	Trailer Axles	Blue, Red	751659

Fifth Wheel Slider Coil

- Clutter-free hook-up and maintenance-free performance of adjustable length pneumatic tubing for fifth wheel sliding action.
- Returns to its original shape time after time, even after long periods of extended use.
- Self-adjusts from 10" to fully extended 54" working length.
- Universal, ready for immediate installation.

No Maintenance: Slider coil will stay on the job at peak performance through years of trouble-free life.

Self-Adjusting: Coil set is strong and permanent. Even after prolonged use in fully extended position, coils will retract to shorter length without sagging. Eliminates hazards of chafing and wear.

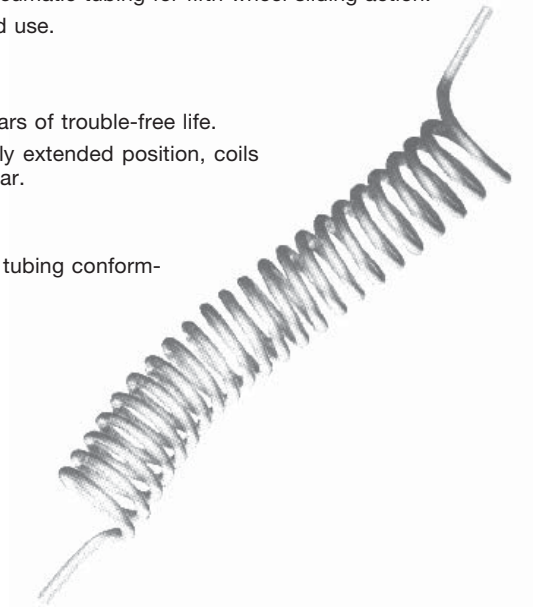
Technical Data

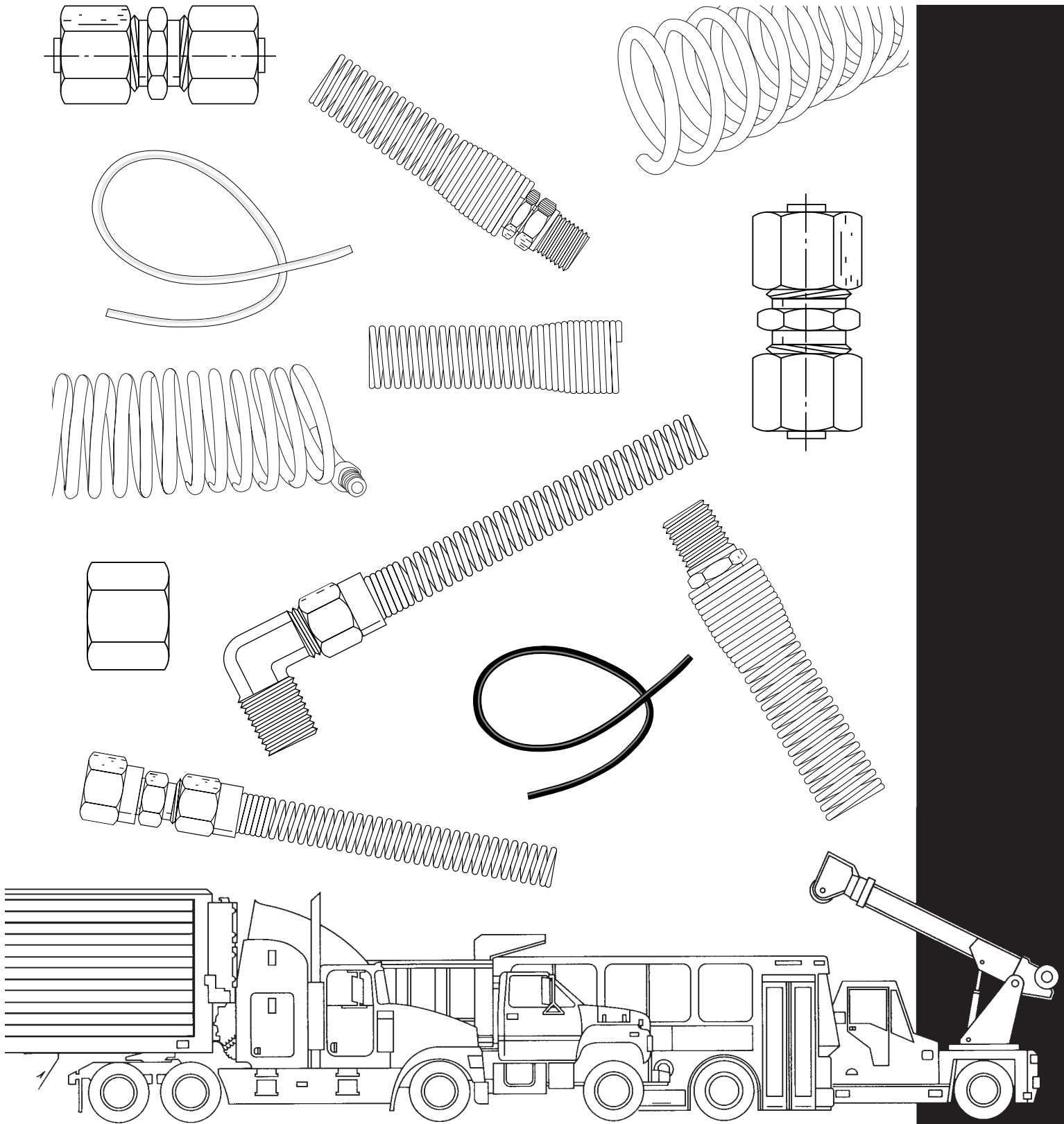
Construction: A heat and light stabilized single wall 1/4" O.D. extruded nylon 11 tubing conforming to SAE specifications J844 type A.

Temperature Range: -40°F to +200°F (-40°C to +93°C)

Maximum Working Pressure: 150 PSI, meets DOT FMVSS 106 standard.

Fittings	Pigtail Length	Max. Extended Length	Retracted Length	Part Number
(2)68NTA-4-4	2"	54"	10"	811537





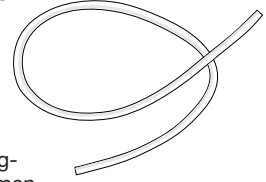
General Description	pg. J2
<hr/>	
Fast-Stor Air Hose Self-retracting nylon air hose. Service temperature range from -40°F to 200°F.	pg. J5
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Fast-Stor Fittings SAE standard sizes.	pg. J6
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NoMar Polyurethane Fast-Stor	pg. J8
<hr/>	
Nylon Available in natural and black. Additional colors available upon request. Black is recommended for use outdoors and in sunlit areas. For machine tool lubricating systems, marinecontrol systems, process lines for chemicals and oils. Tubing with a wall thickness of .033 inches or greater meets UL94HB for flame resistance. Operating temperatures for service at rated pressures with compatible fluids is -60°F to +200°F.	pg. J4
<hr/>	
Polyethylene Quality greatly exceeds that of ordinary polyethylene tubing as measured by ASTM D-1693 (10% IGEPAL). Ingredients of natural and color tubing (except black) meet F.D.A. requirements for food contact applications and NSF-51 for potable water. All tubing conforms to ASTM D-1248, Type I, Class A, Category 4, Grade E5. Suggested operating temperature range is -80°F to +150°F.	pg. J3

Note: Please refer to Parflex Catalog 4660 for further information.

Polyethylene Tubing*

Wall Thickness	Working Pressure P.S.I. at 73°F	O.D.	I.D.	Part No.
.040	120	1/4	.170	E-43-0100
.040	120	1/4	.170	E-43-0500
.040	120	1/4	.170	E-43-1000
.040	120	1/4	.170	EB-43-0100 *
.040	120	1/4	.170	EB-43-0500 *
.040	120	1/4	.170	EB-43-1000 *
.040	120	1/4	.170	E-43-R-0100
.040	120	1/4	.170	E-43-R-0500
.040	120	1/4	.170	E-43-B-0100
.040	120	1/4	.170	E-43-B-0500
.040	120	1/4	.170	E-43-O-0500
.040	120	1/4	.170	E-43-Y-0500
.040	120	1/4	.170	E-43-P-0500
.040	120	1/4	.170	E-43-G-0500
.062	145	5/16	.187	E-53-0500
.062	145	5/16	.187	EB-53-0500 *
.062	125	3/8	.250	E-64-0100
.062	125	3/8	.250	E-64-0500
.062	125	3/8	.250	EB-64-0100 *
.062	125	3/8	.250	EB-64-0500 *
.062	125	3/8	.250	E-64-R-0500
.062	125	3/8	.250	E-64-B-0500
.062	125	3/8	.250	E-64-O-0500
.062	125	3/8	.250	E-64-Y-0500
.062	125	3/8	.250	E-64-P-0500
.062	125	3/8	.250	E-64-G-0500
.062	90	1/2	.375	E-86-0100
.062	90	1/2	.375	EB-86-0100 *
.062	90	1/2	.375	EB-86-0500 *
.062	70	5/8	.500	E-108-0100
.062	70	5/8	.500	EB-108-0100 *

- Chemical Resistant • Flexible • Low Cost
- Eight Colors • Five Tube Sizes
- Choice of Reel Lengths



Parflex flexible polyethylene thermo-plastic tubing is extruded from high molecular weight resin for increased dimensional stability, uniformity and long-term strength. Its resistance to environmental stress cracking greatly exceeds that of ordinary polyethylene tubing as measured by ASTM D-1693, (10% IGEPAL.)

Parflex polyethylene tubing is available in black as well as seven coding colors. Black (EB) tubing contains an ultra-violet inhibitor which is recommended for use in sunlit areas and high ultra-violet light sources. Ingredients of natural and color tubing (except black) listed below meet F.D.A. requirements for food contact applications and are NSF-51 listed for potable water. All tubing conforms to ASTM D-1248, Type I, Class A, Category 4, Grade E5. (NSF FDA approved.)

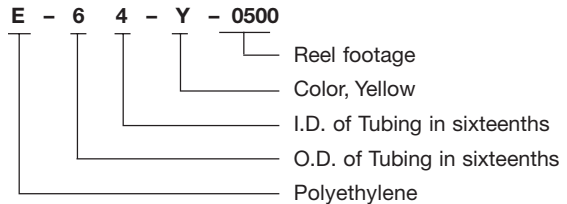
Suggested operating temperature range is -80°F (-62°C) to +150°F (+66°C.)

Fitting Recommendation:

- Parflex Fast & Tite fittings
- Parker Brass fittings

How to order Parflex polyethylene tubing:

Example: **E-64-Y-0500** is 3/8" O.D. x .250" I.D. x 500' long



***Flying Rocks - Salt Spray - Sunlight**

These are conditions which can damage tractor and trailer wiring systems. Parflex tubing is the solution to these problems. Offered in black polyethylene, the tubing is designed for use with Fast & Tite fittings. Parflex tubing contains an ultra-violet inhibitor for wiring systems which are exposed to sunlight and high ultra-violet light sources, and is available in the sizes and wall thicknesses listed above.

NOT FOR USE IN TRACTOR-TRAILER AIR BRAKE SYSTEMS.

Series NR: Semi-rigid High Strength

Nylon Tubing

Parflex series NR Tubing is manufactured from a semi-rigid nylon II material. The tubing does not contain plasticizers.

Series NR semi-rigid nylon tubing offers better chemical resistance than series N, good resistance to high ambient temperature and low moisture absorption. NR has a high tensile strength which will give excellent coupling retention in high pressure, temperature and vibration environments.

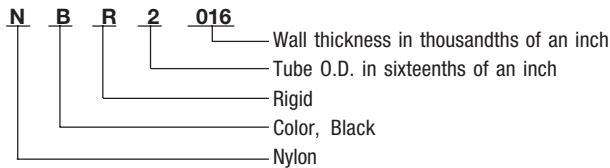
NR tubing is specified for machine tool lubricating systems, marine control systems process lines for chemicals and oils and other applications requiring a high quality nylon tube.

The recommended operating temperature range for service at rated pressures with compatible fluids is -60°F (-51°C) to +200°F (+93°C.)

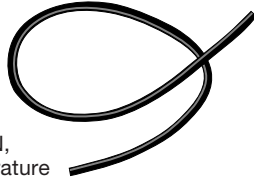
Fitting Recommendations:

- Parflex Fast & Tite fittings
- Parker Brass fittings available from Brass Products Division, Otsego, Michigan, Phone (616) 694-9411

Order by tubing part number and name.



Nominal Tube O.D.	Nominal Tube I.D.	Working Pressure at 73°F psi	Nylon Part No.
1/8	.091	425	NNR-2-017
1/8	.091	425	NBR-2-017
1/8	.073	625	NNR-2-026
1/8	.073	625	NBR-2-026
3/16	.140	425	NNR-3-024
3/16	.140	425	NBR-3-024
3/16	.110	625	NNR-3-039
3/16	.110	625	NBR-3-039
1/4	.180	425	NNR-4-035
1/4	.180	425	NBR-4-035
1/4	.150	625	NNR-4-050
1/4	.150	625	NBR-4-050
5/16	.233	425	NNR-5-040
5/16	.233	425	NBR-5-040
3/8	.279	425	NNR-6-048
3/8	.279	425	NBR-6-048
3/8	.225	625	NNR-6-075
3/8	.225	625	NBR-6-075
1/2	.376	375	NNR-8-062
1/2	.376	375	NBR-8-062
1/2	.350	550	NNR-8-075
1/2	.350	550	NBR-8-075



Series N: Nylon Flexible

Parflex flexible nylon tubing is carefully made from high-grade, abrasion-resistant, heat-and-light-stabilized nylon 11. Resistance to stress-cracking greatly exceeds that of ordinary nylon tubing. Extremely low level water absorption.

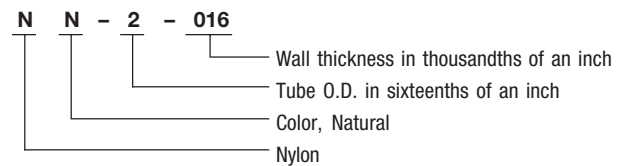
Chemical-resistant Parflex nylon tubing has the additional benefits of better flexibility, lighter weight and resistance to flexural fatigue. Available in natural (NN) and black (NB.) Black tubing is recommended for use outdoors and in sunlight areas. Additional colors available upon request. Consult factory.

Operating temperatures, depending upon conditions, are -65°F (-54°C) to +200°F (+93°C) continuous.

Fitting Recommendations:

- Parflex Fast & Tite fittings
- Parker Brass fittings

Order by tubing part number and name.



Nominal Tube O.D.	Nominal Tube I.D.	Ave. Wall Thickness	Working Pressure at 72°F psi	Nylon Part No.
1/8	.093	.016	250	NN-2-016
1/8	.093	.016	250	NB-2-016
1/8	.064	.031	500	NN-2-031
1/8	.064	.031	500	NB-2-031
5/32	.106	.025	300	NN-2.5-025
5/32	.106	.025	300	NB-2.5-025
3/16	.138	.025	250	NN-3-025
3/16	.138	.025	250	NB-3-025
3/16	.096	.046	500	NN-3-046
3/16	.096	.046	500	NB-3-046
1/4	.180	.035	250	NN-4-035
1/4	.180	.035	250	NB-4-035
1/4	.170	.040	310	NN-4-040
1/4	.170	.040	310	NB-4-040
1/4	.127	.062	500	NN-4-062
1/4	.127	.062	500	NB-4-062
5/16	.233	.040	250	NN-5-040
5/16	.233	.040	250	NB-5-040
3/8	.275	.050	310	NN-6-050
3/8	.275	.050	310	NB-6-050
3/8	.190	.093	500	NN-6-093
3/8	.190	.093	500	NB-6-093
1/2	.375	.062	250	NN-8-062
1/2	.375	.062	250	NB-8-062
1/2	.253	.124	500	NN-8-124
1/2	.253	.124	500	NB-8-124

*Suggested working pressure is 1/4 of burst pressure.

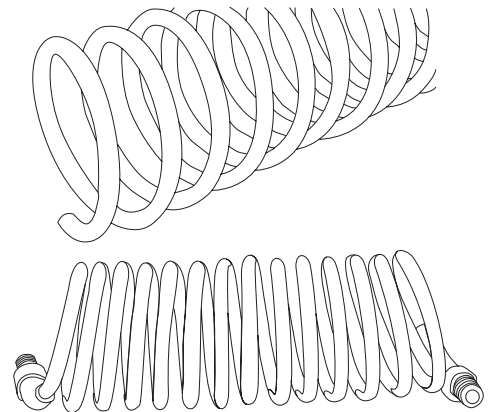
Fast-Stor Air Hose

How to order: Fast-Stor Assemblies

Popular "Stock" Assemblies

Fast-Stor Hose I.D.	Total Length of Hose	Usable Length	Fitting End #1	Fitting End #2 (Live Swivel)	Max Working Pressure psi*	Assembly Part No.
3/16	12'	9'	1/4" MPT	1/4" MPT	170	A0312-MC4-ML4
3/16	25'	18'	1/4" MPT	1/4" MPT	170	A0325-MC4-ML4
3/16	50'	38'	1/4" MPT	1/4" MPT	170	A0350-MC4-ML4
1/4	12'	9'	1/4" MPT	1/4" MPT	170	A0412-MC4-ML4
1/4	25'	18'	1/4" MPT	1/4" MPT	170	A0425-MC4-ML4
1/4	50'	38'	1/4" MPT	1/4" MPT	170	A0450-MC4-ML4
3/8	12'	9'	3/8" MPT	3/8" MPT	170	A0612-MC6-ML6
3/8	25'	18'	3/8" MPT	3/8" MPT	170	A0625-MC6-ML6
3/8	50'	38'	3/8" MPT	3/8" MPT	170	A0650-MC6-ML6
1/2	12'	9'	1/2" MPT	1/2" MPT	170	A0812-MC8-ML8
1/2	25'	18'	1/2" MPT	1/2" MPT	170	A0825-MC8-ML8
1/2	50'	38'	1/2" MPT	1/2" MPT	170	A0850-MC8-ML8

*Maximum working pressure listed at 75°F or lower and based on safety factor of 4.1 over burst.



FAST-STOR Self Retracting Air Hose, from Parflex, is manufactured from an extremely tough, abrasion resistant nylon. FAST-STOR hose has excellent "memory" characteristics over a wide temperature range for long service life in the most rugged applications. The SAFETY YELLOW color of FAST-STOR is highly desirable due to U.S. Government OSHA directives. Service temperature range from -40°F to +200°F.

Bulk Hose

FS

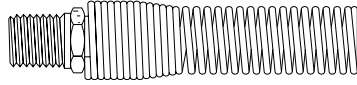
Hose I.D.	Ave. Wall Thickness	Max Working Pressure psi*	Part No.
3/16	.023	170	FS-03-100
1/4	.030	170	FS-04-100
3/8	.045	170	FS-06-100
1/2	.062	170	FS-08-100
3/4	.075	170	FS-12-100

*Maximum working pressure listed at 75°F or lower and based on safety factor of 4.1 over burst.

Male Connector

MC

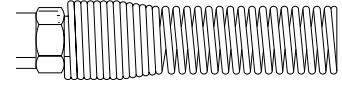
Hose I.D.	Part No.
3/16	MC-03-2
3/16	MC-03-4
1/4	MC-04-2
1/4	MC-04-4
3/8	MC-06-6
1/2	MC-08-6
1/2	MC-08-8
3/4	*MC-12-12



Female Connector

FC

Hose I.D.	Part No.
1/4	FC-04-4
3/8	FC-06-6



Female Pipe Swivel

FL

Hose I.D.	Part No.
1/4	FL-04-4
3/8	FL-06-6



Male Elbow

ME

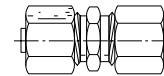
Hose I.D.	Part No.
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1/4	ME-04-4
3/8	ME-06-6
1/2	ME-08-8



Union Connector

UC

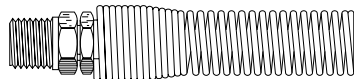
Hose I.D.	Part No.
1/4	UC-04-4
3/8	UC-06-6



Live Male Pipe Swivel

ML

Hose I.D.	Part No.
3/16	ML-03-4
1/4	ML-04-4
3/8	ML-06-6
1/2	ML-08-8



Replacement Parts

FN

Brass Nut

Hose I.D.	Part No.
3/16	FN-03
1/4	FN-04
3/8	FN-06
1/2	FN-08
3/4	FN-12

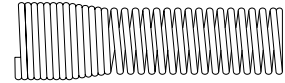


Replacement Parts

SG

Steel Spring Guard

Hose I.D.	Part No.
3/16	SG-03
1/4	SG-04
3/8	SG-06
1/2	SG-08



Replacement Parts

FR

Delrin Ferrule

Hose I.D.	Part No.
3/16	FR-03
1/4	FR-04
3/8	FR-06
1/2	FR-08
3/4	FR-12



Parflex NoMar™ Fast-Stor Assemblies

How to order: Urethane Fast-Store Assemblies

Includes live male end and rigid male end

Hose O.D. (Inches)	Hose I.D. (Inches)	Working Length ft.	Coil I.D. in.	Max. Working Pressure psi at 73°F	Min Burst psi at 73°F	End Fittings	Part No.
3/16	1/8	10	3/4	125	375	1/8" NPT	AUFS-32-TBLU-010
3/16	1/8	25	3/4	125	375	1/8" NPT	AUFS-32-TBLU-025
1/4	1/8	10	3/4	125	375	1/4" NPT	AUFS-42-TBLU-010
3/8	1/4	10	1-1/4	125	375	1/4" NPT	AUFS-64-TBLU-010
3/8	1/4	15	1-1/4	125	375	1/4" NPT	AUFS-64-TBLU-015
3/8	1/4	20	1-1/4	125	375	1/4" NPT	AUFS-64-TBLU-020
3/8	1/4	25	1-1/4	125	375	1/4" NPT	AUFS-64-TBLU-025
1/2	21/64	10	2-1/2	125	375	3/8" NPT	AUFS-85-TBLU-010
1/2	21/64	15	2-1/2	125	375	3/8" NPT	AUFS-85-TBLU-015
1/2	21/64	20	2-1/2	125	375	3/8" NPT	AUFS-85-TBLU-020
1/2	21/64	25	2-1/2	125	375	3/8" NPT	AUFS-85-TBLU-025
1/2	3/8	10	2-1/2	85	375	3/8" NPT	AUFS-86-TBLU-010
1/2	3/8	20	2-1/2	85	375	3/8" NPT	AUFS-86-TBLU-020
9/16	3/8	10	2-1/2	125	375	3/8" NPT	AUFS-96-TBLU-010
9/16	3/8	15	2-1/2	125	375	3/8" NPT	AUFS-96-TBLU-015
9/16	3/8	20	2-1/2	125	375	3/8" NPT	AUFS-96-TBLU-020
9/16	3/8	25	2-1/2	125	375	3/8" NPT	AUFS-96-TBLU-025
3/4	1/2	10	3	125	375	1/2" NPT	AUFS-128-TBLU-010
3/4	1/2	15	3	125	375	1/2" NPT	AUFS-128-TBLU-015
3/4	1/2	20	3	125	375	1/2" NPT	AUFS-128-TBLU-020
3/4	1/2	25	3	125	375	1/2" NPT	AUFS-128-TBLU-025

Pigtail Lengths — 16" swivel end, 8" rigid end.

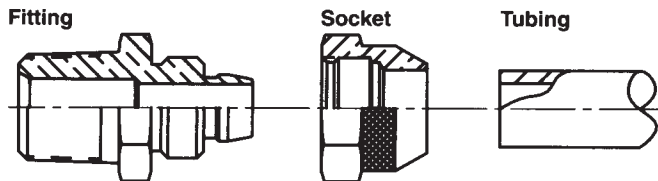
Standard color is transparent blue (-TBLU). Other sizes and colors available upon request. Consult factory.

Urethane Fast-Stor Coils

Pigtail Lengths — 16" End #1, 8" End #2

Standard color is transparent blue (-TBLU). Other Sizes and colors available upon request. Consult factory.

Hose O.D. (in.)	Hose I.D. (in.)	Working Length ft.	Coil I.D. (in.)	Max. Working Pressure psi at 73°F	Min Burst psi at 73°F	Part No.
3/16	1/8	10	3/4	125	375	UFS-32-TBLU-010
3/16	1/8	25	3/4	125	375	UFS-32-TBLU-025
1/4	1/8	10	3/4	125	375	UFS-42-TBLU-010
3/8	1/4	10	1-1/4	125	375	UFS-64-TBLU-010
3/8	1/4	15	1-1/4	125	375	UFS-64-TBLU-015
3/8	1/4	20	1-1/4	125	375	UFS-64-TBLU-020
3/8	1/4	25	1-1/4	125	375	UFS-64-TBLU-025
1/2	21/64	10	2-1/2	125	375	UFS-85-TBLU-010
1/2	21/64	15	2-1/2	125	375	UFS-85-TBLU-015
1/2	21/64	20	2-1/2	125	375	UFS-85-TBLU-020
1/2	21/64	25	2-1/2	125	375	UFS-85-TBLU-025
1/2	3/8	10	2-1/2	85	375	UFS-86-TBLU-010
1/2	3/8	20	2-1/2	85	375	UFS-86-TBLU-020
9/16	3/8	10	2-1/2	125	375	UFS-96-TBLU-010
9/16	3/8	15	2-1/2	125	375	UFS-96-TBLU-015
9/16	3/8	20	2-1/2	125	375	UFS-96-TBLU-020
9/16	3/8	25	2-1/2	125	375	UFS-96-TBLU-025
3/4	1/2	10	3	125	375	UFS-128-TBLU-010
3/4	1/2	15	3	125	375	UFS-128-TBLU-015
3/4	1/2	20	3	125	375	UFS-128-TBLU-020
3/4	1/2	25	3	125	375	UFS-128-TBLU-025



Assembly Instructions

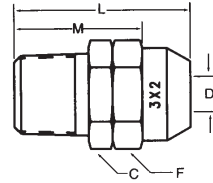
1. Slide the socket on the tubing with threads facing the end of the tubing.
2. Press the tubing over the Tube support portion of the fitting until the tube bottoms out.
3. Push the socket up to meet the mating threads on the fitting, finger tighten the socket onto the fitting.
4. Tighten the fitting and socket till the tubing can not be pulled out of the fitting

Fittings

Male Pipe Rigid

Parflex NoMar Polyurethane Fast-Stor fittings are manufactured from a heavy brass construction utilizing all standards NPTF pipe threads. The engineered barb design generates the maximum gripping and sealing power when combined with the socket.

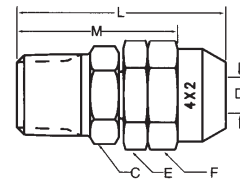
Thread Size	L	M Cutoff	D I.D.	Hex C	Hex F	Hose Part No.	Part No.
1/8 NPT	0.94	0.72	0.11	7/16	7/16	UFS-32	MCB-3x2-2
1/8 NPT	1.00	0.74	0.12	7/16	7/16	UFS-42	MCB-4x2-2
1/4 NPT	1.16	0.90	0.12	9/16	7/16	UFS-42	MCB-4x2-4
1/4 NPT	1.16	0.90	0.23	5/8	5/8	UFS-64	MCB-6x4-4
3/8 NPT	1.20	0.94	0.23	3/4	5/8	UFS-64	MCB-6x4-6
3/8 NPT	1.29	0.99	0.27	3/4	3/4	UFS-85	MCB-8x5-6
1/4 NPT	1.29	1.03	0.28	3/4	3/4	UFS-86	MCB-8x6-4
3/8 NPT	1.30	1.04	0.34	3/4	3/4	UFS-86	MCB-8x6-6
3/8 NPT	1.47	1.10	0.31	7/8	7/8	UFS-96	MCB-9x6-6
1/2 NPT	1.61	1.24	0.32	7/8	7/8	UFS-96	MCB-9x6-8
1/2 NPT	1.63	1.27	0.44	1	1	UFS-128	MCB-12x8-8

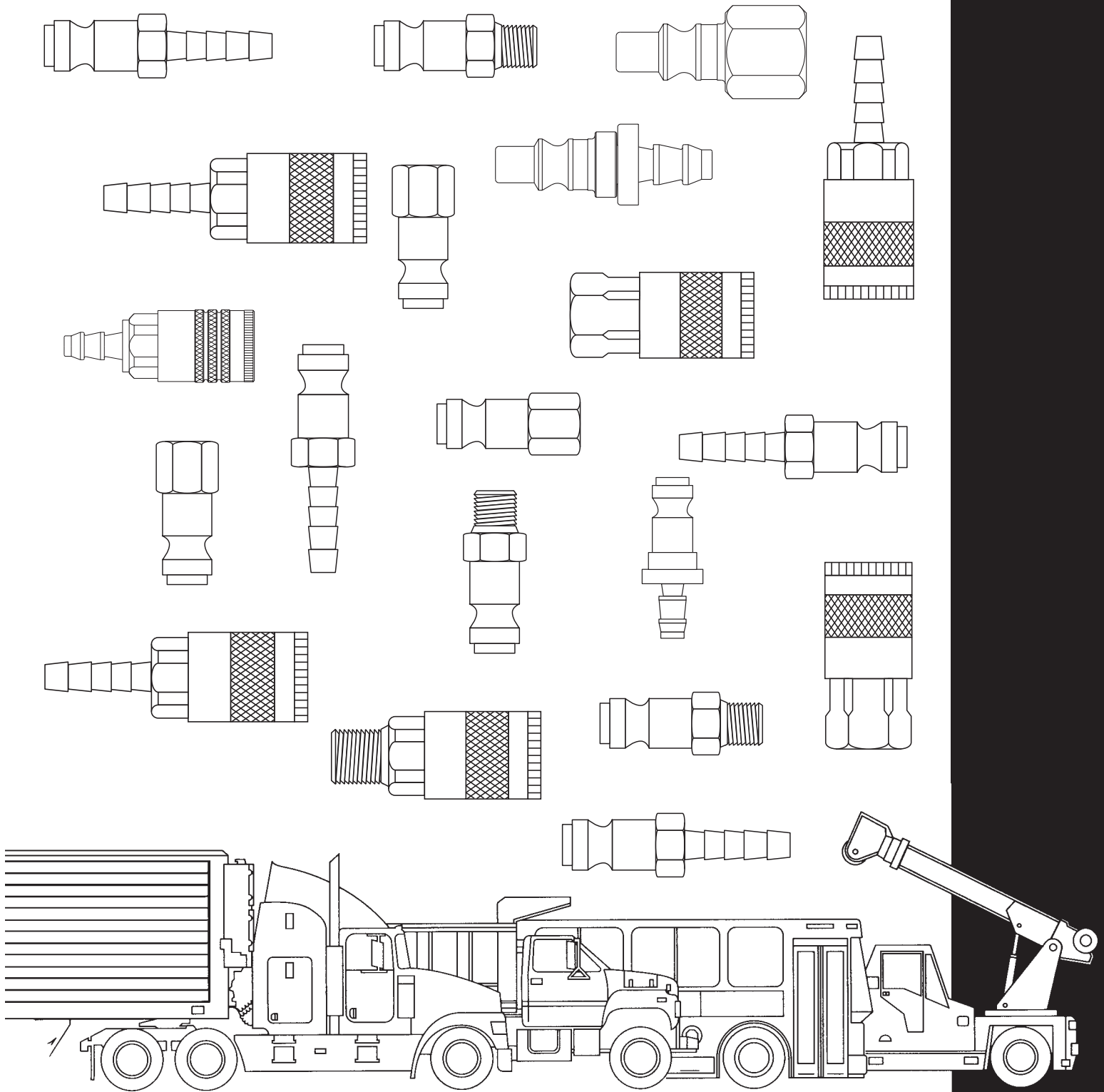


Male Live Swivel

Parflex NoMar Polyurethane Fast-Stor fittings are manufactured from a heavy brass construction utilizing all standards NPTF pipe threads. The engineered barb design generates the maximum gripping and sealing power when combined with the socket.

Thread Size	L	M Cutoff	D I.D.	Hex C	Hex E	Hex F	Hose Part No.	Part No.
1/4 NPT	1.37	1.110	0.12	9/16	7/16	9/16	UFS-42	MLB-4x2-4
1/4 NPT	1.37	1.110	0.22	9/16	5/8	5/8	UFS-64	MLB-6x4-4
3/8 NPT	1.58	1.320	0.23	3/4	5/8	5/8	UFS-64	MLB-6x4-6
3/8 NPT	1.68	1.380	0.27	3/4	3/4	3/4	UFS-85	MLB-8x5-6
3/8 NPT	1.71	1.450	0.33	3/4	3/4	3/4	UFS-86	MLB-8x6-6
3/8 NPT	1.87	1.500	0.31	3/4	7/8	7/8	UFS-96	MLB-9x6-6
1/2 NPT	1.95	1.580	0.31	15/16	7/8	7/8	UFS-96	MLB-9x6-8
1/2 NPT	1.98	1.625	0.42	15/16	1	1	UFS-128	MLB-12x8-8





For Selection Guide, Media Chart, and complete descriptions, specifications and performance charts, contact your Authorized Parker Fleet Distributor or consult Catalog 3800.

General Description pg. K2

Visual Index pg. K3

10 Series TRU-FLATE

Although similar in appearance and application to the 20 Series couplings, they have different dimensions internally and may be used only with 10 Series nipples. Rated pressure 300 psi.

Temperature ranges -40°F to +250°F.

Vacuum data:

Disconnected — not recommended;

Connected — 27.4 inches Hg.

pg. K4

20 Series

Sleeve type couplers will interchange push-type couplers and other manufacturers' couplers which accept Industrial Interchange “&” nipples that conform to MIL-C4109. Rated pressure 300 psi.

Temperature ranges -40°F to +250°F.

Vacuum data:

Disconnected — not recommended;

Connected — 27.4 inches Hg.

pg. K6

HF Series

Push type coupler which will accept the Industrial Interchange Nipples that conform to MIL-C-4109. Rated pressure 300 psi.

Temperature ranges -40°F to 250°F.

pg. K8

50 Series

Rated pressure 300 psi. Temperature ranges -40°F to +250°F. Interchanges with ARO 210 and similar design couplers and nipples.

pg. K9

70 Series

Rated pressure 300 psi. Temperature ranges -40°F to +250°F. Interchanges with Lincoln “Long Stem” series couplings.

pg. K10

UC Series

Universal design interchangeable with 10 Series, 20 Series and 50 Series nipples. Rated pressure 150 psi.

pg. K11


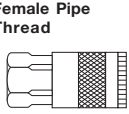
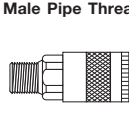
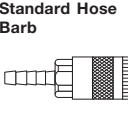
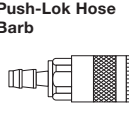

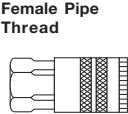
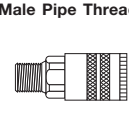
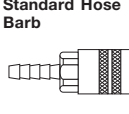
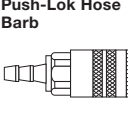
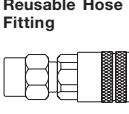

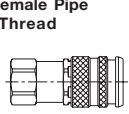
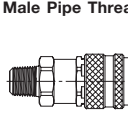
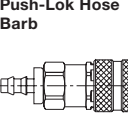
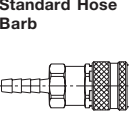
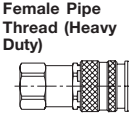
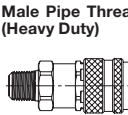
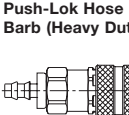
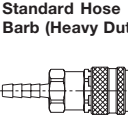

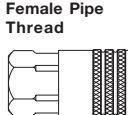
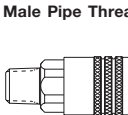
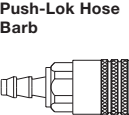

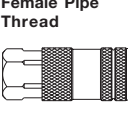
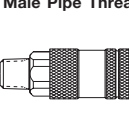

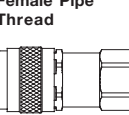
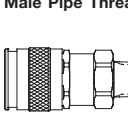

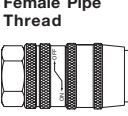
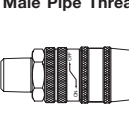


E-z-mate Series

Rated pressure 300 psi. Push-to-connect, exhaust-style coupler. Use industrial 20 Series interchange nipples.


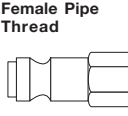
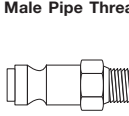
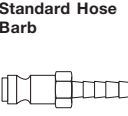
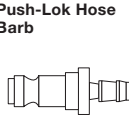

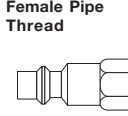
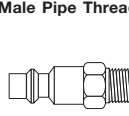
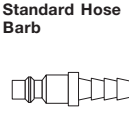
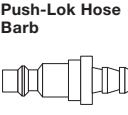
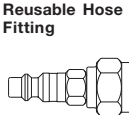

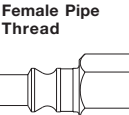
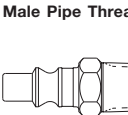
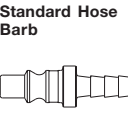


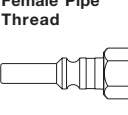
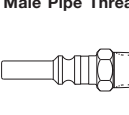
pg. K11

Note: Please refer to Catalog 3800 for further information.

Pneumatic Quick Couplings - Couplers

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 Page K6	 Page K6	 Page K6		 Page K8	 Page K8	 Page K8	 Page K8
 Page K8	 Page K8	 Page K8	 Page K8		 Page K9	 Page K9	 Page K9
	 Page K10	 Page K10		 Page K11	 Page K11		
	 Page K11	 Page K11	 Page K11	 Page K11			

Pneumatic Quick Couplings - Nipples

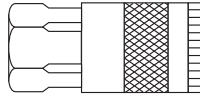
	 Page K4	 Page K4	 Page K5	 Page K5		 Page K7	 Page K7
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	 Page K10	 Page K10					

***Tru-Flate**

Female Pipe Thread

Coupler

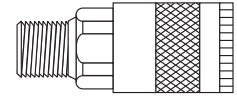
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	B13A	-
1/4	1/4-18	B13	-
1/4	3/8-18	B13E	-
3/8	1/4-18	-	15C
3/8	3/8-18	B15	15
3/8	1/2-14	-	15F
1/2	3/8-18	-	17E
1/2	1/2-14	B17	17
1/2	3/4-14	-	17G



Male Pipe Thread

Coupler

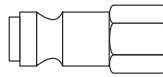
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	B12A	-
1/4	1/4-18	B12	-
1/4	3/8-18	B12E	-
3/8	1/4-18	-	14C
3/8	3/8-18	B14	14
3/8	1/2-14	-	14F
1/2	3/8-18	-	16E
1/2	1/2-14	B16	16
1/2	3/4-14	-	16G



Female Pipe Thread

Nipple

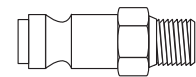
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	-	1C
1/4	1/4-18	B3C	3C
1/4	3/8-18	-	3C-E
3/8	1/4-18	-	1E
3/8	3/8-18	-	3E
1/2	3/8-18	-	1F
1/2	1/2-14	-	3F
1/2	3/4-14	-	H3F-G



Male Pipe Thread

Nipple

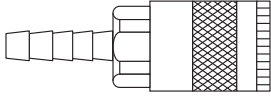
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	-	0C
1/4	1/4-18	B2C	2C
1/4	3/8-18	-	2C-E
3/8	1/4-18	-	0E
3/8	3/8-18	-	2E
1/2	3/8-18	-	0F
1/2	1/2-14	-	2F
1/2	3/4-14	-	H2F-G



***Tru-Flate**

Standard Hose Barb

Coupler

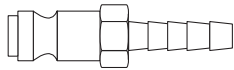


Body Size (in.)	Hose I.D.	Brass Part No.	Steel Part No.
1/4	1/4	B10-3B	-
1/4	5/16	B10-4B	-
1/4	3/8	B10-5B	-
3/8	3/8	-	14-5B
3/8	1/2	-	14-6B
1/2	3/8	-	16-5B
1/2	1/2	-	16-6B
1/2	3/4	-	16-7B

Standard Hose Barb

Nipple

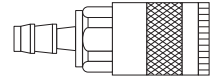
Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	8C
1/4	3/8	9C
3/8	3/8	5E
1/2	3/8	H4F
1/2	1/2	5F
1/2	3/4	H5F-G



Push-Lok Hose Barb*

Coupler

Body Size (in.)	Hose I.D.	Brass Part No.	Steel Part No.
1/4	1/4	B10-3BP	-
1/4	3/8	B10-5BP	-
3/8	3/8	-	14-5BP
1/2	3/8	-	16-5BP
1/2	1/2	-	16-6BP

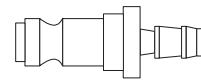


*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Push-Lok Hose Barb*

Nipple

Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	8CP
1/4	3/8	9CP
3/8	3/8	5EP
1/2	3/8	H4FP
1/2	1/2	H5FP

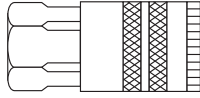


*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Female Pipe Thread

Coupler

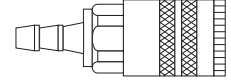
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	B23A	-
1/4	1/4-18	B23	-
1/4	3/8-18	B23E	-
3/8	1/4-18	-	25C
3/8	3/8-18	B25	25
3/8	1/2-14	-	25F
1/2	3/8-18	-	17E
1/2	1/2-14	B17	17
1/2	3/4-14	-	17G



Push-Lok Hose Barb*

Coupler

Body Size (in.)	Hose I.D.	Brass Part No.	Steel Part No.
1/4	1/4	B20-3BP	-
1/4	3/8	B20-5BP	-
3/8	3/8	-	24-5BP
1/2	3/8	-	16-5BP
1/2	1/2	-	16-6BP

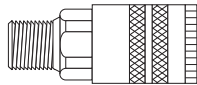


*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Male Pipe Thread

Coupler

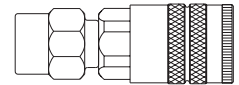
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	B22A	-
1/4	1/4-18	B22	-
1/4	3/8-18	B22E	-
3/8	1/4-18	-	24C
3/8	3/8-18	B24	24
3/8	1/2-14	-	24F
1/2	3/8-18	-	16E
1/2	1/2-14	B16	16
1/2	3/4-14	-	16G



Reusable Hose Fitting

Coupler

Body Size (in.)	Hose I.D.	Hose O.D.	Brass Part No.
1/4	1/4	1/2	B22-C3
1/4	1/4	9/16	B22-C5
1/4	1/4	5/8	B22-C6
1/4	3/8	5/8	*B22-E6
1/4	3/8	11/16	*B22-E8

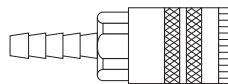


*Semi-Standard, consult factory for price and delivery.

Standard Hose Barb

Coupler

Body Size (in.)	Hose I.D.	Brass Part No.	Steel Part No.
1/4	1/4	B20-3B	-
1/4	5/16	B20-4B	-
1/4	3/8	B20-5B	-
3/8	3/8	-	24-5B
3/8	1/2	-	24-6B
1/2	3/8	-	16-5B
1/2	1/2	-	16-6B
1/2	3/4	-	16-7B

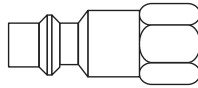


*All 20 Series quick couplers use 20 Series nipples shown of page K7.

Female Pipe Thread

Nipple

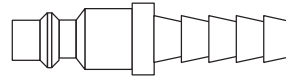
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	-	H1C
1/4	1/4-18	BH3C	H3C
1/4	3/8-18	-	H3C-E
3/8	1/4-18	-	H1E
3/8	3/8-18	BH3E	H3E
3/8	1/2-14	-	H3E-F
1/2	3/8-18	-	H1F
1/2	1/2-14	BH3F	H3F
1/2	3/4-14	-	H3F-G
3/4	1/2-14	-	H3G-F
3/4	3/4-14	-	H3G
3/4	1-11 1/2	-	H3G-J



Standard Hose Barb

Nipple

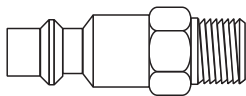
Body Size (in.)	Hose I.D.	Brass Part No.	Steel Part No.
1/4	1/4	-	H8C
1/4	5/16	-	H8C-D
1/4	3/8	-	H9C
3/8	3/8	-	H5E
3/8	1/2	-	H6E
1/2	3/8	-	H4F
1/2	1/2	-	H5F
1/2	3/4	-	H5F-G
3/4	1/2	-	H5G-F
3/4	3/4	BH5G	H5G
3/4	1	-	H5G-J



Male Pipe Thread

Nipple

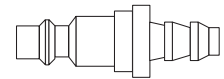
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/4	1/8-27	-	H0C
1/4	1/4-18	BH2C	H2C
1/4	3/8-18	-	H2C-E
3/8	1/8-27	-	H00E
3/8	1/4-18	-	H0E
3/8	3/8-18	BH2E	H2E
3/8	1/2-14	-	H2E-F
1/2	3/8-18	-	H0F
1/2	1/2-14	BH2F	H2F
1/2	3/4-14	-	H2F-G
3/4	1/2-14	-	H2G-F
3/4	3/4-14	BH2G	H2G
3/4	1-11 1/2	-	H2G-J



Push-Lok Hose Barb*

Nipple

Body Size (in.)	Hose I.D.	Brass Part No.	Steel Part No.
1/4	1/4	BH8CP	H8CP
1/4	3/8	-	H9CP
3/8	1/4	-	H4EP
3/8	3/8	-	H5EP
3/8	1/2	-	H6EP
1/2	3/8	-	H4FP
1/2	1/2	-	H5FP

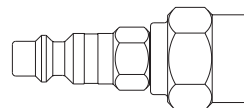


*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Reusable Hose Fittings

Nipple

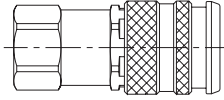
Body Size (in.)	Hose I.D.	Hose O.D.	Steel Part No.
1/4	1/4	1/2	H8C-C3
1/4	1/4	9/16	H8C-C5
1/4	1/4	5/8	H8C-C6



Female Pipe Thread

Coupler

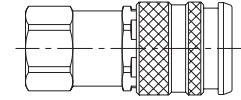
Body Size (in.)	Port Size NPTF	Brass Part No.
1/4	1/4-18	HF304F-4
1/4	3/8-18	HF304F-6



Female Pipe Thread
(Heavy Duty)

Coupler

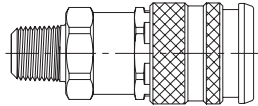
Body Size (in.)	Port Size NPTF	Steel Part No.
1/4	1/4-18	HF404F-4
1/4	3/8-18	HF404F-6



Male Pipe Thread

Coupler

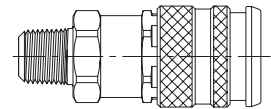
Body Size (in.)	Port Size NPTF	Brass Part No.
1/4	1/4-18	HF304M-4
1/4	3/8-18	HF304M-6



Male Pipe Thread
(Heavy Duty)

Coupler

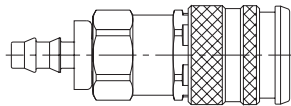
Body Size (in.)	Port Size NPTF	Steel Part No.
1/4	1/4-18	HF404M-4
1/4	3/8-18	HF404M-6



Push-Lok Hose Barb

Coupler

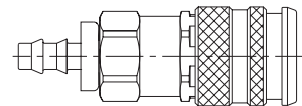
Body Size (in.)	Hose I.D.	Brass Part No.
1/4	1/4	HF304PL-4
1/4	3/8	HF304PL-6



Push-Lok Hose Barb
(Heavy Duty)

Coupler

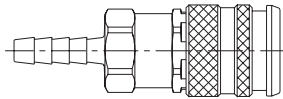
Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	HF404PL-4
1/4	3/8	HF404PL-6



Standard Hose Barb

Coupler

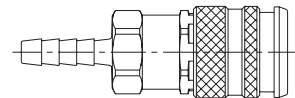
Body Size (in.)	Hose I.D.	Brass Part No.
1/4	1/4	HF304HB-4
1/4	3/8	HF304HB-6



Standard Hose Barb
(Heavy Duty)

Coupler

Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	HF404HB-4
1/4	3/8	HF404HB-6



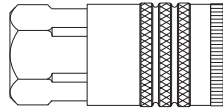
*All HF Series Couplers use 20 Series Nipples shown on page K7.

***ARO**

Female Pipe Thread

Coupler

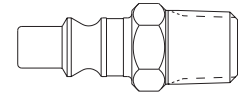
Body Size (in.)	Thread Size NPTF	Brass Part No.
1/4	1/4-18	B53
1/4	3/8-18	B53E



Male Pipe Thread

Nipple

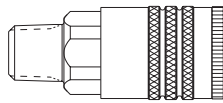
Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	A2C



Male Pipe Thread

Coupler

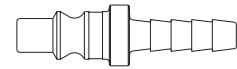
Body Size (in.)	Thread Size NPTF	Brass Part No.
1/4	1/4-18	B52
1/4	3/8-18	B52E



Standard Hose Barb

Nipple

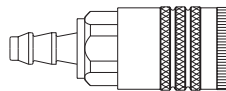
Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4-18	A8C



Push-Lok Hose Barb*

Coupler

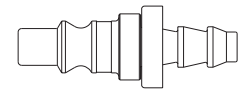
Body Size (in.)	Hose I.D.	Brass Part No.
1/4	1/4	B50-3BP
1/4	3/8	B50-5BP



Push-Lok Hose Barb*

Nipple

Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	A8CP



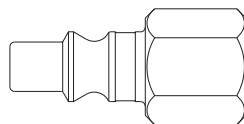
*Push-Lok hose barbs are designed for use with Push-Lok hose and do not require clamps.

*Push-Lok hose barbs are designed for use with Parker Push-Lok hose and do not require clamps.

Female Pipe Thread

Nipple

Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	A3C

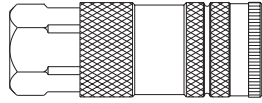


***Lincoln**

Female Pipe Thread

Coupler

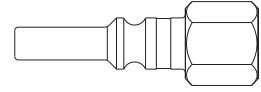
Body Size (in.)	Thread Size NPTF	Brass Part No.
1/4	1/4-18	B73



Female Pipe Thread

Nipple

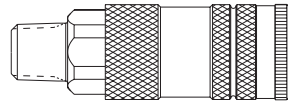
Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	L3C



Male Pipe Thread

Coupler

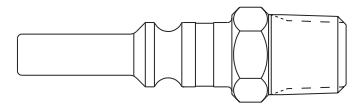
Body Size (in.)	Thread Size NPTF	Brass Part No.
1/4	1/4-18	B72



Male Pipe Thread

Nipple

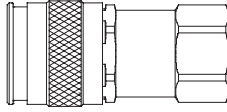
Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	L2C



Female Pipe Thread

Coupler

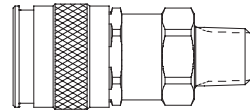
Body Size (in.)	Thread Size NPTF	Part No.
1/4	1/4-18	UC304F-4



Male Pipe Thread

Coupler

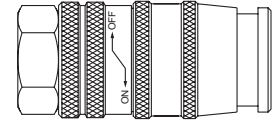
Body Size (in.)	Thread Size NPTF	Part No.
1/4	1/4-18	UC304M-4



Female Pipe Thread*

Coupler

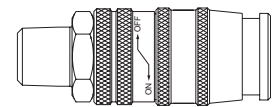
Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	EZ304F-4T
1/4	3/8-18	EZ304F-6T
3/8	3/8-18	EZ306F-6T
3/8	1/2-14	EZ306F-8T
1/2	1/2-14	EZ308F-8T
1/2	3/4-14	EZ308F-12T
3/4	3/4-14	EZ312F-12T
3/4	1-11 1/2	EZ312F-16T



Male Pipe Thread*

Coupler

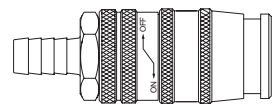
Body Size (in.)	Thread Size NPTF	Steel Part No.
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1/4	3/8-18	EZ304M-6T
3/8	3/8-18	EZ306M-6T
1/2	1/2-14	EZ308M-8T
3/4	3/4-14	EZ312M-12T



Standard Hose Barb*

Coupler

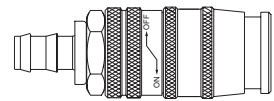
Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	EZ304HB-4T
1/4	3/8	EZ304HB-6T
3/8	3/8	EZ306HB-6T
1/2	1/2	EZ308HB-8T



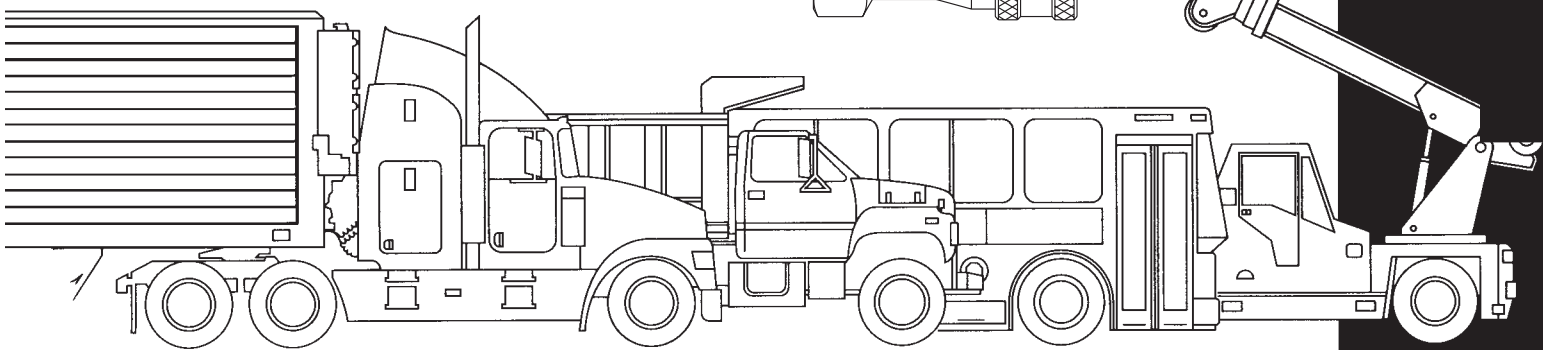
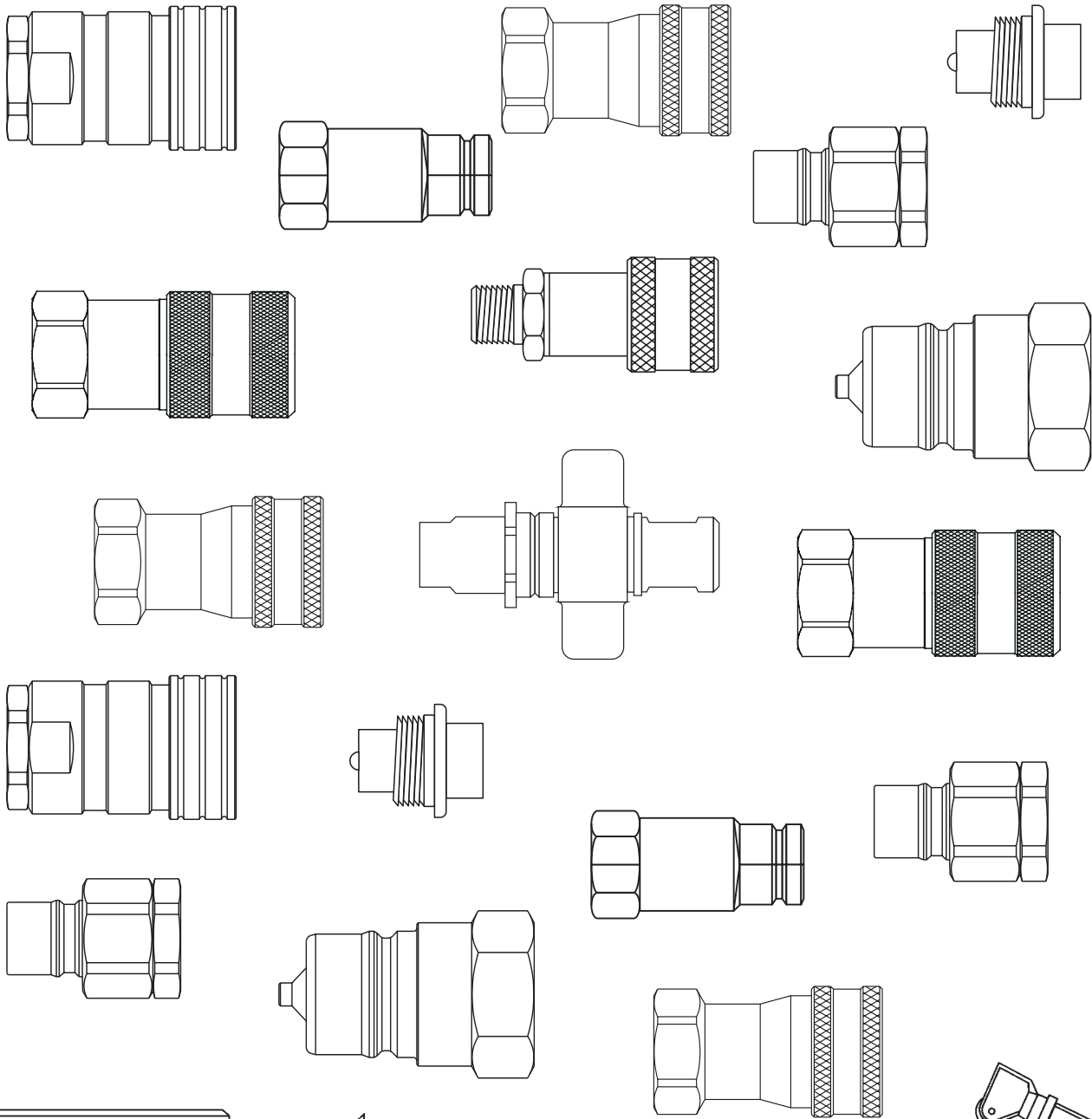
Push-Lok Hose Barb*

Coupler

Body Size (in.)	Hose I.D.	Steel Part No.
1/4	1/4	EZ304PL-4T
1/4	3/8	EZ304PL-6T
3/8	3/8	EZ306PL-6T
1/2	1/2	EZ308PL-8T



*E-z-mate couplers use industrial 20 Series interchange nipples.



Rated pressure ranges from 800 to 10,000 psi, depending on the coupling series, size and materials. For Selection Guide, Media Chart, and complete descriptions, specifications and performance charts, contact your Authorized Parker Fleet Distributor or consult Catalog 3807.

General Description		pg. L2
Visual Index		pg. L4
60 Series	Recommended where high cycle rates and pressure surges are encountered. "Industrial Interchange" design meets the dimensional requirements of Series B in ISO 7241-1. Temperature range is -40°F to +250°F. Vacuum data 27.4 Hg, both disconnected and connected. O-Ring Boss threads available. (See Quick Couplings Catalog 3800 for rated working pressures.)	pg. L12
3000 Series	Rated pressure 10,000 psi. Temperature range -10°F to +250°F.	pg. L9
4000 Series Couplers	Temperature range -40°F to +250°F. Rated pressure 3000 psi.	pg. L10
5000 Series	The Parker 5000 Series is an economical coupling that is a threaded union and can be connected under pressure with tools. For applications that require a coupling to be connected under pressure and where tools can be used to make the connection, the 5000 Series coupling should be considered. Rated pressure is 2500 psi.	pg. L11
6100 Series	Connect Under Pressure coupling, available with wing-nut or hex nut. Temperature range -40°F to +250°F. Rated pressure 3000 psi.	pg. L13
6600 Series	Parker 6600 Series couplings meet the dimensional requirements of Series A in ISO 7241-1. Temperature range -40°F to +250°F. Rated pressure 4000 psi. O-Ring Boss threads available.	pg. L14
FF Series	Operating pressure is 3000 psi. The 3/8" size conforms to HTMA (Hydraulic Tool Manufacturers Association) standards. All sizes incorporate flush face mating surfaces. Caution: These products are not to be used as swivels, rotation under pressure will result in excessive and premature wear. O-Ring Boss threads available.	pg. L8

Non-Spill Adapters

Parker Non-Spill Adapters were designed due to the widespread use of several coupling types in the construction market. These adapters help the user adapt between poppet style couplings and non-spill type couplings. Adapters are widely available with Parker FE and FF Series to Parker 6600 Series coupling connections. This product is especially useful where multiple hydraulic attachments are being used with skid steer loaders.

pg. L11

NS Series

Non-spill couplings. Operating pressure is 2500 psi. These products are not to be used as swivels, rotation under pressure will result in excessive and premature wear.

pg. L8

PD Series

Diagnostic couplings for connection to mechanical gauges or specialized diagnostic equipment like SensoControl. Nipples are designed to meet or exceed SAE J1502 design and performance specifications. Rated pressure 6000 psi in steel. Brass is rated at 300 psi.

pg. L6

PDP Series

Connect Under Pressure diagnostic couplings.

pg. L7

ST Series

The ST is an "Industrial Interchange" full flow coupling since it is dimensionally and functionally interchangeable with similar couplings manufactured by other major manufacturers. Temperature range -40°F to +250°F.

pg. L9

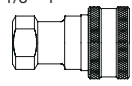
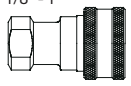


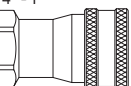
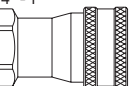
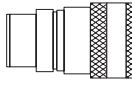
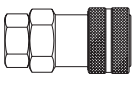
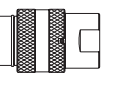
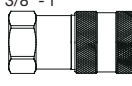
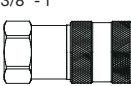
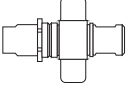
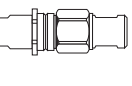
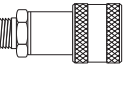
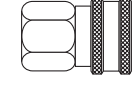
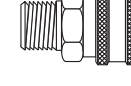
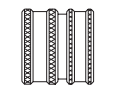
Water Service Couplings

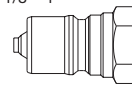
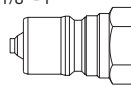
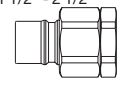
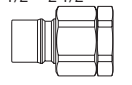
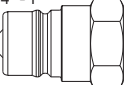
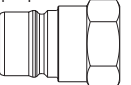
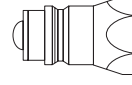
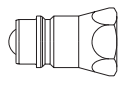
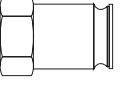
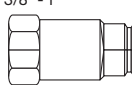
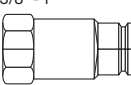
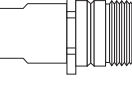

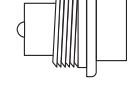
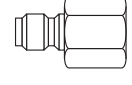
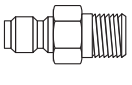
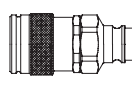
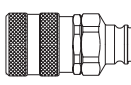
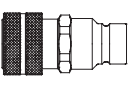
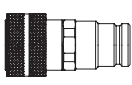
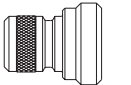
Parker Water Service Couplings are used anywhere water hoses are connected and disconnected frequently. They are used on a wide variety of applications including garden hoses, wash down systems, and mobile water tank lines. The unvalved design permits maximum flow with minimum pressure drop.


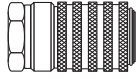
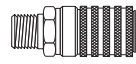

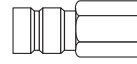
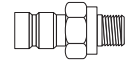
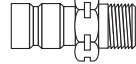

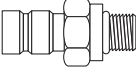
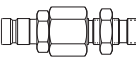
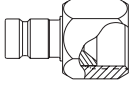
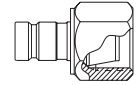
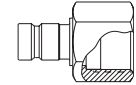



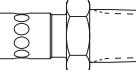

pg. L11

Safety Guide**pg. L15**

Note: Please refer to Quick Couplings Catalog 3800 for further information.

Hydraulic Quick Couplings - Couplers							
<p>60 Series Industrial Interchanges Meets Series B 1507241-1 Dimensions</p>  <p>Female Pipe Thread 1/8" - 1"</p> <p>Page L12</p>	<p>O-Ring Boss Thread 1/8" - 1"</p>  <p>Page L12</p>	<p>Female Pipe Thread 1 1/2" - 2 1/2"</p>  <p>Page L12</p>	<p>O-Ring Boss Thread 1 1/2" - 2 1/2"</p>  <p>Page L12</p>	<p>6600 Series Meets Series A 1507241-1</p>  <p>Female Pipe Thread 1/4" - 1"</p> <p>Page L14</p>	<p>O-Ring Boss Thread 1/4" - 1"</p>  <p>Page L14</p>		
<p>4000 Series Heavy Duty Hydraulic Applications</p>  <p>Female Pipe Thread</p> <p>Page L10</p>	<p>5000 Series Connect Under Pressure Couplings</p>  <p>Female Pipe Thread</p> <p>Page L11</p>	<p>NS Series Non-Spill</p>  <p>Female Pipe Thread</p> <p>Page L8</p>					
<p>FF Series Flush-Face Design Non-Spill 3/8" Size Conforms to HTMA Standards</p>  <p>Female Pipe Thread 3/8" - 1"</p> <p>Page L8</p>	<p>O-Ring Boss Thread 3/8" - 1"</p>  <p>Page L8</p>	<p>6100 Series Heavy-Duty Thread-to-Connect Under</p>  <p>Wing Nut Assembly</p> <p>Page L13</p>	<p>Hex Nut Assembly</p>  <p>Page L13</p>	<p>3000 Series</p>  <p>Coupler</p> <p>Page L9</p>			
<p>ST Series Smooth-bore Couplings for Maximum Flow, Low Pressure Drop</p>  <p>Female Pipe Thread</p> <p>Page L9</p>	<p>Male Pipe Thread</p>  <p>Page L9</p>	<p>High Flow Water Couplings</p>  <p>Garden Hose Thread</p> <p>Page L11</p>					

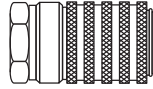
Hydraulic Quick Couplings - Nipples							
<p>60 Series Industrial Interchanges Meets Series B 1507241-1 Dimensions</p>  <p>Female Pipe Thread 1/8" - 1"</p> <p>Page L12</p>	<p>O-Ring Boss Thread 1/8" - 1"</p>  <p>Page L12</p>	<p>Female Pipe Thread 1 1/2" - 2 1/2"</p>  <p>Page L12</p>	<p>O-Ring Boss Thread 1 1/2" - 2 1/2"</p>  <p>Page L12</p>	<p>6600 Series Meets Series A 1507241-1</p>  <p>Female Pipe Thread 1/4" - 1"</p> <p>Page L14</p>	<p>O-Ring Boss Thread 1/4" - 1"</p>  <p>Page L14</p>		
<p>4000 Series Heavy Duty Hydraulic Applications</p>  <p>Female Pipe Thread</p> <p>Page L10</p>	<p>5000 Series Connect Under Pressure Nipples</p>  <p>Female Pipe Thread</p> <p>Page L11</p>	<p>NS Series Non-Spill</p>  <p>Female Pipe Thread</p> <p>Page L8</p>					
<p>FF Series Flush-Face Design Non-Spill 3/8" Size Conforms to HTMA Standards</p>  <p>Female Pipe Thread 3/8" - 1"</p> <p>Page L8</p>	<p>O-Ring Boss Thread 3/8" - 1"</p>  <p>Page L8</p>	<p>6100 Series Heavy-Duty Thread-to-Connect Under</p>  <p>Male Pipe Thread</p> <p>Page L13</p>	<p>Flanges</p>  <p>Page L13</p>				
<p>3000 Series</p>  <p>Coupler</p> <p>Page L9</p>	<p>ST Series Smooth-bore Couplings for Maximum Flow, Low Pressure Drop</p>  <p>Female Pipe Thread</p> <p>Page L9</p>	<p>Male Pipe Thread</p>  <p>Page L9</p>					
<p>Non-Spill Adapters</p>  <p>EAS-500 1/2"</p> <p>Page L11</p>	<p>FAS-500 1/2"</p>  <p>Page L11</p>	<p>SAE-500 1/2"</p>  <p>Page L11</p>	<p>SAF-500 1/2"</p>  <p>Page L11</p>	<p>High Flow Water Nipples</p>  <p>Male Pipe Thread</p> <p>Page L11</p>			

Pressure-Sensing Diagnostic Couplings							
 <p>PD Series Couplers</p>	<p>Female Thread</p>  <p>Page L6</p>	<p>Male Thread</p>  <p>Page L6</p>	 <p>PD Series Nipples</p>	<p>Female Thread</p>  <p>Page L6</p>	<p>Male Pipe</p>  <p>Page L6</p>	<p>Metric Thread</p>  <p>Page L6</p>	
 <p>PD Series Nipples</p>	<p>Straight Thread</p>  <p>Page L6</p>	<p>Bulkhead Triple-Lok</p>  <p>Page L6</p>	<p>Triple-Lok</p>  <p>Page L6</p>	<p>Ferulok</p>  <p>Page L7</p>	<p>Seal-Lok</p>  <p>Page L7</p>		
 <p>PDP Series Coupler</p>	<p>Female Thread</p>  <p>Page L7</p>	 <p>PDP Series Nipples</p>	<p>Male Pipe</p>  <p>Page L7</p>	<p>Straight Thread</p>  <p>Page L7</p>			

Female Thread

Coupler

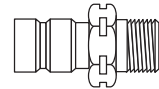
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1/8	7/16-20	-	PD240
1/8	-	1/4-18	PD242
1/8	9/16-18	-	PD260



Metric Thread

Nipple

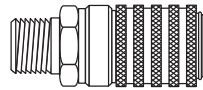
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Male Thread

Coupler

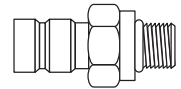
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Straight Thread

Nipple

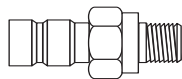
Body Size (in.)	Thread Size ORB	Brass Part No.	Steel Part No.
1/8	7/16-20	-	PD341
1/8	1/2-20	-	PD351
1/8	9/16-18	-	PD361
1/8	9/16-18	BPD361Y	



Female Thread

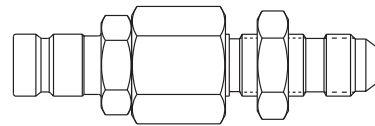
Nipple

Body Size (in.)	Thread Size NPTF	Steel Part No.
1/8	1/8-27	PD322
1/4	1/4-18	PD342



Bulkhead Triple-Lok

Nipple

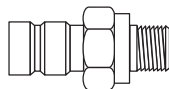


Body Size (in.)	Tube Size	Thread Size	Steel Part No.
1/8	1/4	7/16-20	PD345
1/8	5/16	1/2-20	PD355
1/8	3/8	9/16-18	PD365

Male Pipe

Nipple

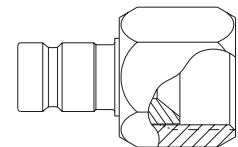
Body Size (in.)	Thread Size NPTF	Brass Part No.	Steel Part No.
1/8	1/8-27	-	PD323
1/8	1/8-27	BPD323Y	-
1/8	1/4-18	-	PD343
1/8	3/8-18	-	PD363



Triple-Lok

Nipple

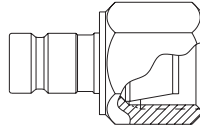
Body Size (in.)	Tube Size	Steel Part No.
1/8	1/4	PD34BTX
1/8	3/8	PD36BTX
1/8	1/2	PD38BTX



Ferulok

Nipple

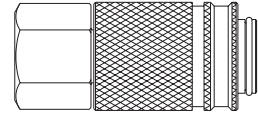
Body Size (in.)	Tube Size	Steel Part No.
1/8	1/2	PD38BTU



Female Thread

Coupler

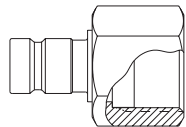
Body Size (in.)	Thread Size NPTF	Steel Part No.
1/8	1/4-18	PDP242



Seal-Lok

Nipple

Body Size (in.)	Tube Size	Steel Part No.
1/8	1/2	PD38BTL

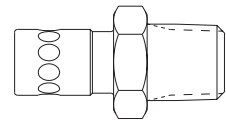


Male Pipe*

Nipple

(Connect-Under-Pressure)

Body Size (in.)	Thread Size NPTF	Steel Part No.
1/8	1/8-27	PDP323
1/8	1/4-18	PDP343



Dust Plugs & Caps

Body Size (in.)	Dust Cap Part No.
1/8	PD6

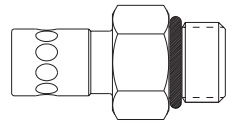


Straight Thread*

Nipple

(Connect-Under-Pressure)

Body Size (in.)	Thread Size ORB	Steel Part No.
1/8	7/16-20	PDP341
1/8	9/16-18	PDP361

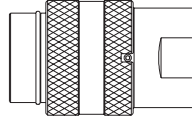


*Add -6 to part number to include dust cap. Dust cap part number PD-6

NS Series

Coupler

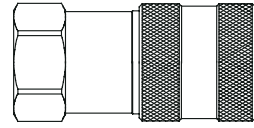
Body Size (in.)	Thread Size NPSF	Thread Size BSPF	Part No.
3/8	3/8-18	-	NS371-6FP
3/8	-	G 3/8	NS371-6FB
1/2	1/2-14	-	NS501-8FP
1/2	-	G 1/2	NS501-8FB
3/4	3/4-14	-	NS751-12FP
3/4	-	G 3/4	NS751-12FB
1	1-11 1/2	-	NS1001-16FP
1	-	G 1	NS1001-16FB



FF Series

Coupler

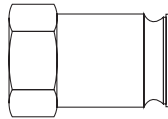
Body Size (in.)	Thread Size NPSF	Thread Size BSPF	Thread Size UNF/UN	Part No.
3/8	3/8-18	-	-	FF371-6FP
3/8	1/2-14	-	-	FF371-8FP
3/8	-	G 3/8	-	FF371-6FB
1/2	-	G 1/2	-	FF371-8FB
1/2	1/2-14	-	-	FF501-8FP
1/2	7/8-14	-	-	FF501-10FO
3/4	3/4-14	-	-	FF751-12FP
3/4	-	-	1 1/16-12UNF	FF751-12FO
1	1-11 1/2	-	-	FF-1001-16FP
1	-	-	1 5/16-12UN	FF-1001-16FO



NS Series

Nipple

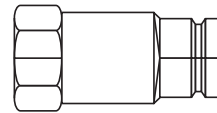
Body Size (in.)	Thread Size NPSF	Thread Size BSPF	Part No.
3/8	3/8-18	-	NS372-6FP
3/8	-	G 3/8	NS372-6FB
1/2	1/2-14	-	NS502-8FP
1/2	-	G 1/2	NS502-8FB
3/4	3/4-14	-	NS752-12FP
3/4	-	G 3/4	NS752-12FB
1	1-11 1/2	-	NS1002-16FP
1	-	G 1	NS1002-16FB



FF Series

Nipple

Body Size (in.)	Thread Size NPSF	Thread Size BSPF	Thread Size UNF/UN	Part No.
3/8	3/8-18	-	-	FF372-6FP
3/8	1/2-14	-	-	FF372-8FP
3/8	-	G 3/8	-	FF372-6FB
3/8	-	G 1/2	-	FF372-8FB
1/2	1/2-14	-	-	FF502-8FP
1/2	-	-	7/8-14	FF502-10FO
3/4	3/4-14	-	-	FF752-12FP
3/4	-	-	1 1/16-12UNF	FF752-12FO
1	1-11 1/2	-	-	FF-1002-16FP
1	-	-	1 5/16-12UN	FF-1002-16FO



Protective Covers

NS Series

Body Size (in.)	Part No.
3/8	NR-37
1/2	NR-50
3/4	NR-75
1	NR-100



Dust Plugs & Caps

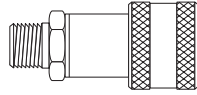
Body Size (in.)	Dust Plug Part No.	Dust Cap Part No.
3/8	NR-50	NR-37
1/2	FR-501	FR-502
3/4	FR-751	FR-752



3000 Series

Coupler

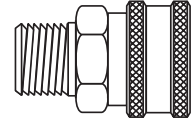
Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	3050-2
3/8	3/8-18	3050-3



Male Pipe Thread

Coupler

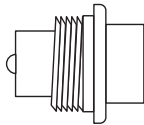
Body Size (in.)	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.
1/8	1/8-27	SST-1M	BST-1M
1/4	1/4-18	SST-2M	BST-2M
3/8	3/8-18	SST-3M	BST-3M
1/2	1/2-14	SST-4M	BST-4M
3/4	3/4-14	SST-6M	BST-6M
1	1-11 1/2	SST-8M	BST-8M



3000 Series

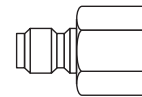
Nipple

Body Size (in.)	Thread Size NPTF	Steel Part No.
1/4	1/4-18	3010-2
3/8	3/8-18	3010-3



Female Pipe Thread

Nipple



Dust Plugs & Caps

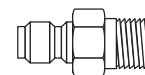


Body Size (in.)	Steel Dust Plug Part No.	Rubber Dust Plug Part No.	Steel Dust Cap Part No.	Rubber Dust Cap Part No.
1/4	3005-2	-	3009-2	5209-3
3/8	3005-3	-	3009-3	-

Body Size (in.)	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.	Steel Part No.
1/8	1/8-27	SST-N1	BST-N1	ST-N1
1/4	1/4-18	SST-N2	BST-N2	ST-N2
3/8	3/8-18	SST-N3	BST-N3	ST-N3
1/2	1/2-14	SST-N4	BST-N4	ST-N4
3/4	3/4-14	SST-N6	BST-N6	ST-N6
1	1-11 1/2	SST-N8	BST-N8	ST-N8
1 1/4	1 1/4-11 1/2	-	BST-N10	-
1 1/2	1 1/2-11 1/2	-	BST-N12	-

Male Pipe Thread

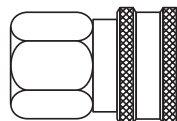
Nipple



Female Pipe Thread

Coupler

Body Size (in.)	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.
1/8	1/8-27	SST-1	BST-1
1/4	1/4-18	SST-2	BST-2
3/8	3/8-18	SST-3	BST-3
1/2	1/2-14	SST-4	BST-4
3/4	3/4-14	SST-6	BST-6
1	1-11 1/2	SST-8	BST-8
1 1/4	1 1/4-11 1/2	-	BST-10
1 1/2	1 1/2-11 1/2	-	BST-12

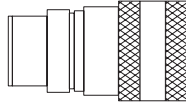


Body Size (in.)	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.	Steel Part No.
1/8	1/8-27	SST-N1M	BST-N1M	ST-N1M
1/4	1/4-18	SST-N2M	BST-N2M	ST-N2M
3/8	3/8-18	SST-N3M	BST-N3M	ST-N3M
1/2	1/2-14	SST-N4M	BST-N4M	ST-N4M
3/4	3/4-14	SST-N6M	BST-N6M	ST-N6M
1	1-11 1/2	SST-N8M	BST-N8M	ST-N8M

Female Thread

Coupler

Body Size (in.)	Thread Size ORB	Thread Size NPTF	Steel Part No.
1/4	-	1/4-1	4050-2
3/8	-	3/8-18	4050-3
1/2	-	1/2-14	4050-4
1/2	-	3/4-14	4050-5
1/2	3/4-16	-	4050-15
1/2	7/8-14	-	4050-16
3/4	-	3/4-14	4150-5
1	-	1-11 1/2	4050-6P



Dust Plugs & Caps



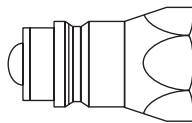
Body Size (in.)	Steel Dust Plug Part No.	Rubber Dust Plug Part No.	Steel Dust Cap Part No.	Rubber Dust Cap Part No.
1/4	-	5205-2M*	-	5209-2M*
3/8	-	5205-3	-	5209-3
1/2	5005-4	5205-4M*	5009-4	5209-4M*
3/4	-	5205-5	-	5209-5
1	-	5205-6	-	5209-6

*M in part number indicates a one piece molded construction.

Female Thread

Nipple

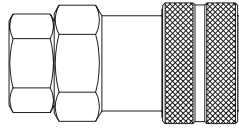
Body Size (in.)	Thread Size ORB	Thread Size NPTF	Steel Part No.
1/4	-	1/4-18	4010-2
3/8	-	3/8-18	4010-3
1/2	-	1/2-14	8010-4
1/2	-	3/4-14	8010-5
1/2	3/4-16	-	8010-15
1/2	7/8-14	-	8010-16
3/4	-	3/4-14	4110-5
1	-	1-11 1/2	4010-6P



5000 Series

Coupler

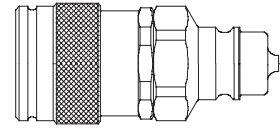
Body Size (in.)	Thread Size NPTF	Part No.
1/2	1/2-14	5050-4



Non-Spill Adapters

EAS-500

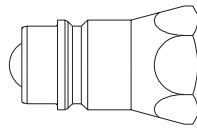
Body Size (in.)	Thread Size	Part No.
1/2	NA	EAS-500



5000 Series

Nipple

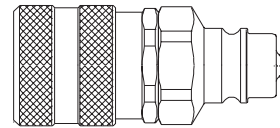
Body Size (in.)	Thread Size NPTF	Part No.
1/2	1/2-14	8010-4



Non-Spill Adapters

FAS-500

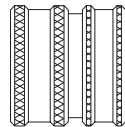
Body Size (in.)	Thread Size	Part No.
1/2	NA	FAS-500



Water Service Series

Coupler

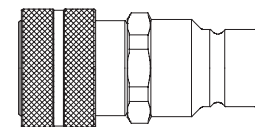
Body Size (in.)	Thread Size NH	Part No.
3/4	3/4-11 1/2	1163-60



Non-Spill Adapters

SAE-500

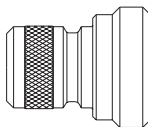
Body Size (in.)	Thread Size	Part No.
1/2	NA	SAE-500



Water Service Series

Nipple

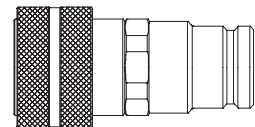
Body Size (in.)	Thread Size NH	Part No.
3/4	3/4-11 1/2	1163-61



Non-Spill Adapters

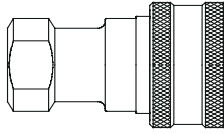
SAF-500

Body Size (in.)	Thread Size	Part No.
1/2	NA	SAF-500



Female Thread

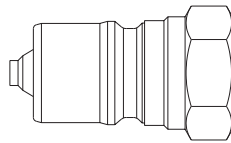
Coupler



Body Size (in.)	Thread Size ORB	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.	Steel Part No.
1/8	-	1/8-27	SH1-62	BH1-60	H1-62
1/8	7/16-20	-	SH1-62-T4	BH1-60-T4	H1-62-T4
1/4	-	1/4-18	SH2-62	BH2-60	H2-62
1/4	9/16-18	-	SH2-62-T6	BH2-60-T6	H2-62-T6
3/8	-	3/8-18	SH3-62	BH3-60	H3-62
3/8	3/4-16	-	SH3-62-T8	BH3-60-T8	H3-62-T8
1/2	-	1/2-14	SH4-62	BH4-60	H4-62
1/2	7/8-14	-	SH4-62-T10	BH4-60-T10	H4-62-T10
3/4	-	3/4-14	SH6-62	BH6-60	H6-62
3/4	1-1/16-12	-	SH6-62-T12	BH6-60-T12	H6-62-T12
1	-	1-11-1/2	SH8-62	BH8-60	H8-62
1	1-5/16-12	-	SH8-62-T16	BH8-60-T16	H8-62-T16

Female Thread

Nipple



Body Size (in.)	Thread Size ORB	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.	Steel Part No.
1/8	-	1/8-27	SH1-63	BH1-61	H1-63
1/8	7/16-20	-	SH1-63-T4	BH1-61-T4	H1-63-T4
1/4	-	1/4-18	SH2-63	BH2-61	H2-63
1/4	9/16-18	-	SH2-63-T6	BH2-61-T6	H2-63-T6
3/8	-	3/8-18	SH3-63	BH3-61	H3-63
3/8	3/4-16	-	SH3-63-T8	BH3-61-T8	H3-63-T8
1/2	-	1/2-14	SH4-63	BH4-61	H4-63
1/2	7/8-14	-	SH4-63-T10	BH4-61-T10	H4-63-T10
3/4	-	3/4-14	SH6-63	BH6-61	H6-63
3/4	1-1/16-12	-	SH6-63-T12	BH6-61-T12	H6-63-T12
1	-	1-11-1/2	SH8-63	BH8-61	H8-63
1	1-5/16-12	-	SH8-63-T16	BH8-61-T16	H8-63-T16

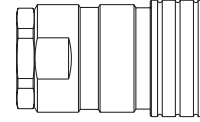
Special Order Information

60 Series couplings are available in zinc plated steel, brass, and 303 stainless steel as standard, 316 stainless steel is also available. Brass couplings have double O-Ring seals and stainless locking balls.

Standard seal materials are Buna N (Nitrile); optional seal materials are available. For 316 Stainless Steel products standard seal materials is Viton™. Buna N (Nitrile) or other seal materials are available upon request. Refer to Catalog 3800 for more details.

Female Thread

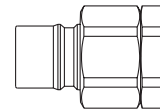
Coupler



Body Size (in.)	Thread Size ORB	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.	Steel Part No.
1-1/2	-	1-1/4-11-1/2	SH12-62L	BH12-60L	H12-62L
1-1/2	-	1-1/2-11-1/2	SH12-62N	BH12-60N	H12-62N
1-1/2	1-5/8-12	-	SH12-62-T20	BH12-60-T20	H12-62-T20
1-1/2	1-7/8-12	-	SH12-62-T24	BH12-60-T24	H12-62-T24
2-1/2	-	2-11-1/2	SH2016-62	BH2016-60	H2016-62
2-1/2	-	2-1/2-8	SH2020-62	BH2020-60	H2020-62
2-1/2	-	3-8	SH2024-62	BH2024-60	H2024-62

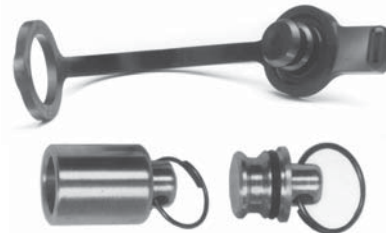
Female Thread

Nipple



Body Size (in.)	Thread Size ORB	Thread Size NPTF	Type 303 Stainless Part No.	Brass Part No.	Steel Part No.
1-1/2	-	1-1/4-11-1/2	SH12-63L	BH12-61L	H12-63L
1-1/2	-	1-1/2-11-1/2	SH12-63N	BH12-61N	H12-63N
1-1/2	1-5/8-12	-	SH12-63-T20	BH12-61-T20	H12-63-T20
1-1/2	1-7/8-12	-	SH12-63-T24	BH12-61-T24	H12-63-T24
2-1/2	-	2-11-1/2	SH2016-63	BH2016-61	H2016-63
2-1/2	-	2-1/2-8	SH2020-63	BH2020-61	H2020-63
2-1/2	-	3-8	SH2024-63	BH2024-61	H2024-63

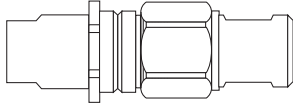
Dust Plugs & Caps



Body Size (in.)	Aluminum Dust Plug Part No.	Polyurethane Dust Plug Part No.	Aluminum Dust Cap Part No.	Polyurethane Dust Cap Part No.
1/8	H1-65	H1-65M	H1-66	H1-66M
1/4	H2-65	H2-65M	H2-66	H2-66M
3/8	H3-65	H3-65M	H3-66	H3-66M
1/2	H4-65	H4-65M	H4-66	H4-66M
3/4	H6-65	H6-65M	H6-66	H6-66M
1	H8-65	H8-65M	H8-66	H8-66M
1-1/2	H12-65	-	H12-66	-

Hex Assembly

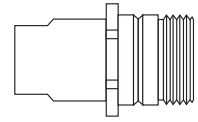
Coupler



Body Size (in.)	Thread Size NPTF	With Flange Part No.	Without Flange Part No.
3/4	3/4-14	6110-12	6130-12
1	1-11 1/2	6110-16	6130-16
1 1/4	1 1/4-11 1/2	6110-20	6130-20
1 1/2	1 1/2-11 1/2	6110-24	6130-24

6100 Series

Nipple

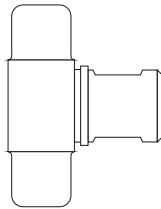


Body Size (in.)	Thread Size NPTF	Brass With Flange Part No.	Brass Without Flange Part No.
3/4	1/2-14	6115-08	6105-08
3/4	3/4-14	6115-12	6105-12
1	1-11 1/2	6115-16	6105-16
1 1/4	1 1/4-11 1/2	6115-20	6105-20
1 1/2	1 1/2-11 1/2	6115-24	6105-24

Wing Nut

Coupler

Body Size (in.)	Thread Size NPTF	Brass Part No.
3/4	1/2-14	6125-08
3/4	3/4-14	6125-12
1	1-11 1/2	6125-16
1 1/4	1 1/4-11 1/2	6125-20
1 1/2	1 1/2-11 1/2	6125-24



6100 Series

Flange

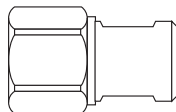
Body Size (in.)	Steel Part No.
3/4	6107-08
1	6107-16
1 1/4	6107-20
1 1/2	6107-24



Hex Nut

Coupler

Body Size (in.)	Thread Size NPTF	Brass Part No.
3/4	1/2-14	6135-08
3/4	3/4-14	6135-12
1	1-11 1/2	6135-16
1 1/4	1 1/4-11 1/2	6135-20
1 1/2	1 1/2-11 1/2	6135-24



Dust Plugs & Caps

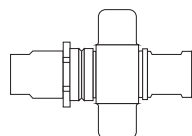


Body Size (in.)	Steel Dust Plug Part No.	Steel Dust Cap Part No.
3/4	6109-08	6108-08
1	6109-16	6108-16
1 1/4	6109-20	6108-20
1 1/2	6109-24	6108-24

Wing Nut Assembly

Coupler

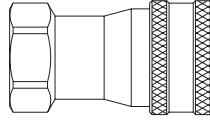
Body Size (in.)	Thread Size NPTF	With Flange Part No.	Without Flange Part No.
3/4	1/2-14	6100-08	6120-08
3/4	3/4-14	6100-12	6120-12
1	1-11 1/2	6100-16	6120-16
1 1/4	1 1/4-11 1/2	6100-20	6120-20
1 1/2	1 1/2-11 1/2	6100-24	6120-24



Female Thread

Coupler

Body Size (in.)	Thread Size ORB	Thread Size NPTF	Steel Part No.
1/4	-	1/8-27	6601-2-4
1/4	-	1/4-18	6601-4-4
3/8	-	3/8-18	6601-6-6
3/8	9/16-18	-	6608-6-6
1/2	-	1/2-14	6601-8-10
1/2	-	3/4-14	6601-12-10
1/2	3/4-16	-	6608-8-10
1/2	7/8-14	-	6608-10-10
1/2	1 1/16-12	-	6608-12-10
3/4	-	3/4-14	6601-12-12
3/4	1 1/16-12	-	6608-12-12
1	-	1-11 1/2	6601-16-16
1	1 5/16-12	-	6608-16-16



Dust Plugs & Caps

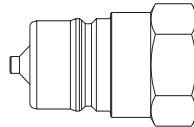


Body Size (in.)	Dust Plug Part No.	Dust Cap Part No.
1/4	6659-4	6657-4
3/8	6659-6	6657-6
1/2	6659-10	6657-10
3/4	6659-12	6657-12
1	6659-16	6657-16

Female Thread

Nipple

Body Size (in.)	Thread Size ORB	Thread Size NPTF	Steel Part No.
1/4	-	1/8-27	6602-2-4
1/4	-	1/4-18	6602-4-4
3/8	-	3/8-18	6602-6-6
3/8	9/16-18	-	6610-6-6
1/2	-	1/2-14	6602-8-10
1/2	-	3/4-14	6602-12-10
1/2	3/4-16	-	6610-8-10
1/2	7/8-14	-	6610-10-10
1/2	1 1/16-12	-	6610-12-10
3/4	-	3/4-14	6602-12-12
3/4	1 1/16-12	-	6610-12-12
1	-	1-11 1/2	6602-16-16
1	1 5/16-12	-	6610-16-16



Parker Safety for Selecting and Using Quick Action Couplings and Related Accessories

⚠ DANGER: Failure or improper selection or improper use of quick action couplings, or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include but are not limited to:

- Couplings or parts at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion while paint or flammable liquid spraying.

Before selecting or using any Parker quick action couplings or related accessories, it is important that you read and follow the following instructions.

1.0 General Instructions

1.1 Scope: This safety guide provides instructions for selecting and using (including installing connecting, disconnecting, and maintaining) quick action couplings and related accessories (including caps, plugs, blow guns, and two way valves). This safety guide is a supplement to and is to be used with, the specific Parker publications for the specific quick action couplings and related accessories that are being considered for use.

1.2 Fail-Safe: Quick action couplings or the hose they are attached to can fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the quick action coupling or hose will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using quick action coupling products. Do not select or use quick action couplings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and uses for quick action couplings, Parker and its distributors do not represent or warrant that any particular quick action coupling is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the quick action couplings.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the quick action couplings are used.

1.5 Additional Questions: Call the appropriate Parker customer service department if you have any questions or

require any additional information. For the telephone numbers of the appropriate customer service department, see the Parker publication for the product being considered or used.

2.0 Quick Action Coupling Selection Instructions

2.1 Pressure: Quick action couplings selection must be made so that the published rated pressure of the coupling is equal to or greater than the maximum system pressure. Surge pressures in the system higher than the rated pressure of the coupling will shorten the quick action coupling's life. Do not confuse burst pressure or other pressure values with rated pressure and do not use burst pressure or other pressure values for this purpose.

2.2 Fluid Compatibility: Quick action couplings selection must assure compatibility of the body and seal materials with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used.

2.3 Temperature: Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the quick action couplings. Use caution and hand protection when connecting or disconnecting quick action couplings that are heated or cooled by the media they are conducting or by their environment.

2.4 Size: Transmission of power by means of pressurized liquid varies with pressure and rate of flow. The size of the quick action couplings and other components of the system must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.5 Pressurized Connect or Disconnect: If connecting or disconnecting under pressure is a requirement, use only quick action couplings designed for that purpose. The rated operating pressure of a quick action coupling may not be the pressure at which it may be safely connected or disconnected.

2.6 Environment: Care must be taken to ensure that quick

action couplings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

- 2.7 Locking Means:** Ball locking quick action couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnect. Sleeves designed with flanges to provide better gripping for oily or gloved hands are especially susceptible to accidental disconnect and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.
- 2.8 Mechanical Loads:** External forces can significantly reduce quick action couplings' life or cause failure. Mechanical loads which must be considered include excessive tensile or side loads, and vibration. Unusual applications may require special testing prior to quick action couplings selection.
- 2.9 Specifications and Standards:** When selecting quick action couplings, government, industry, and Parker specifications must be reviewed and followed as applicable.
- 2.10 Vacuum:** Not all quick action couplings are suitable or recommended for vacuum service. Quick action couplings used for vacuum applications must be selected to ensure that the quick actions couplings will withstand the vacuum and pressure of the system.
- 2.11 Fire Resistant Fluids:** Some fire resistant fluids require seals other than the standard nitrile used in many quick action couplings.
- 2.12 Radiant Heat:** Quick action couplings can be heated to destruction or loss of sealability without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the quick action couplings.
- 2.13 Welding and Brazing:** Heating of plated parts, including quick action couplings and port adapters, above 450°F (232°C) such as during welding, brazing, or soldering may emit deadly gases and may cause coupling seal damage.

3.0 Quick Action Coupling Installation Instructions

- 3.1 Pre-Installation Inspection:** Before installing a quick action coupling, visually inspect it and check for correct style, body material, seal material, and catalog number. Before final installation, coupling halves should be connected and disconnected with a sample of the mating half with which they will be used.
- 3.2 Quick Action Coupling Halves From Other Manufacturers:** If a quick action coupling assembly is made up of one Parker half and one half from another manufacturer, the lowest pressure rating of the two halves should not be exceeded.
- 3.3 Fitting Installation:** Use a thread sealant, lubricant, or a combination of both when assembling pipe thread joints in quick action couplings. Be sure the sealant is compatible with the system fluid or gas. To avoid system contamination, use a liquid or paste type sealant rather than a tape style. Use the flats provided to hold the quick action

coupling when installing fittings. Do not use pipe wrenches or a vice on other parts of the coupling to hold it when installing or removing fittings as damage or loosening of threaded joints in the coupling assembly could result. Do not apply excessive torque to taper pipe threads because cracking or splitting of the female component can result.

- 3.4 Caps and Plugs:** Use dust caps and plugs when quick action couplings are not coupled to exclude dirt and contamination and to protect critical surfaces from damage.
- 3.5 Coupling Location:** Locate quick action couplings where they can be reached for connect or disconnect without exposing the operator to slipping, falling, getting sprayed, or coming in contact with hot or moving parts.
- 3.6 Hose Whips:** Use a hose whip (a short length of hose between the tool and the coupling half) instead of rigidly mounting a coupling half on hand tools or other devices. This reduces the potential for coupling damage if the tool is dropped and provides some isolation from mechanical vibration which could cause uncoupling.
- 4.0 Quick Action Coupling Maintenance Instructions**
- 4.1** Even with proper selection and installation, quick action coupling life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum:
- 4.2** Visual Inspection of Quick Action Couplings: Any of the following conditions require immediate shut down and replacement of the quick action coupling:
- Cracked, damaged, or corroded quick action coupling parts.
 - Leaks at the fitting, valve or mating seal.
 - Broken coupling mounting hardware, especially breakaway clamps.
- 4.3** Visual Inspection All Other: The following items must be tightened, repaired or replaced as required:
- Leaking seals or port connections.
 - Remove excess dirt buildup on the coupling locking means or on the interface area of either coupling half.
 - Clamps, guards, and shields.
 - System fluid level, fluid type and any air entrapment.
- 4.4** **Functional Test:** Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.
- 4.5** **Replacement Intervals:** Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage or injury risk. See instruction 1.2 above.

Additional copies of the preceding safety information can be ordered by requesting "Safety Guide For Selecting and Using Quick Action Couplings and Related Accessories," Parker Publication No. 3800-B1.0

Contact the Quick Coupling Division, Minneapolis, MN.



Tools

Parkrimp Machine Selection Instructions	pg. M4
Hose Assembly - Permanent Hose crimping and swaging equipment designed to make permanent hose end assemblies.	pg. M6
Hose Assembly - Reusable Equipment for making reusable hose assemblies.	pg. M19
Hose Cut-Off Equipment Power and hand tools for cutting hydraulic hose.	pg. M17
Tube Cutting Tools for cutting and preparing copper, brass, aluminum, annealed steel tubing; tube cutter for plastic tubing.	pg. M21
Tube Flaring Hand equipment for flaring tubing for use with 37° and 45° flare fittings.	pg. M21

Accessories

Blow Guns Controlled pressure and Full pressure blow guns meet OSHA standards.	pg. M38
Cabinets Display and storage cabinets for hose, fittings and tooling.	pg. M39
Flange Kits Kits for 4-bolt split flanges.	pg. M32
Hose Guards Protective covers for rubber and thermoplastic hose. Protection Shields	pg. M22
Miscellaneous Hose Clamps, Swing Check Valves, O-rings, Air Line Filter, Teflon Tape, O-Ring Installation Kit.	pg. M40
O-Rings	pg. M36
Hose Assembly Workstations	pg. M29

Merchandisers, Point of Purchase Displays

- **Air Con Merchandiser** pg. M44
- **Air Shift Repair Kits** pg. M45
- **Cap and Plug Kits** pg. M45
- **Compressor Discharge Hose Assemblies** pg. M42
- **Fleet Brass Assortments: 40B-Cabinet - NTA, PMT, Pipe, and FLR** pg. M43
- **JIC 37° Adapter Assortment: JIC-FBP** pg. M45
- **O-Ring Kits** pg. M47
- **Oil Drain Adapter Kit** pg. M45
- **Prestomatic Air Brake Repair Kits** pg. M45
- **Protection Shields/Merchandiser** pg. M28
- **Push-Lok Kits: 4-83A, 46-83A** pg. M48
- **Seal-Lok Adapter Assortment Kit: PKT04146** pg. M46
- **Soft Metric Adapter Conversion Kits** pg. M45
- **Steel Pipe Adapter Assortment Kit: PKT05603** pg. M46

CHOOSE THE CORRECT NO-SKIVE PARKRIMP MACHINE TO MEET YOUR REQUIREMENTS – Karrykrimp, Parkrimp 1 and Karrykrimp 2 Unit Selection Instructions:

See next page for PHastkrimp, Superkrimp and Parkrimp 2 table.

Step 1:

Select hydraulic hose that meets working pressure, fluid and temperature compatibility of your system. See *Hose - Section A.*

Step 2:

Identify hose size.

Step 3:

Identify Fitting Series, end configurations and size. See *Fittings - Section D.*

Step 4:

Based on hose type, hose size, and fitting series, identify which Parkrimp Machine will best service your requirements:

- Karrykrimp
- Parkrimp 1
- Karrykrimp 2
- PHastkrimp (**NEW**)
- Superkrimp
- Parkrimp 2

See *Parkrimp Crimping Equipment, Section M.*

Step 5:

Based on hose type, hose size, fitting series, and Parkrimp Machine, select the proper:

- a. Unitized die-train color coded by size, and
- b. Die Ring, Space Ring or Space Plate.

See *Parkrimp Crimping Equipment, Section M.*

Step 6:

Follow the selected Parkrimp Machine hose assembly instructions.

Step 7:

Check crimp diameter of 1st, 50th and last assembly produced in each size range.

Hose Number	Description	Karrykrimp Size Range	Parkrimp 1 Size Range	Karrykrimp 2 Size Range	Fitting Series
SS23CG	Liquefied Petroleum Gas and Compressed Natural Gas Hose (CGA Type III)	-6/-10	-6/-10	-6/-10	26
201	SAE100R5, SAE J1402All	-4/-16	-4/-16	-4/-16	26
206	SAE 100R5 SAE J1402 All D.O.T.	-4/-16	-4/-16	-4/-16	26
213	SAE J1402AI	-4/-16	-4/-16	-4/-16	26
225	SAE100R5	-4/-16	-4/-16	-4/-16	26
235	SAE J51 Type D	-16	-16	-16	26
244	Refrigerant 134a Hose SAE J2064 Type B, Class I	-16/-20	-16/-20	-16/-20	26
261	SAE100R5, SAE J1402All	-4/-16	-4/-16	-4/-16	26
266	SAE J1402All	-4/-16	-4/-16	-4/-16	26
285	Air Conditioning and Refrigerant SAE J2064 Type C, Class I	-4/-12	-4/-12	-4/-12	26
293	Engine and Air Brake	-4/-12	-4/-12	-4/-12	26
301	SAE100R2AT	-4/-20	-4/-20	-4/-20	43
301LT	SAE100R2AT Low Temperature	-4/-16	-4/-16	-4/-16	43
304	High Pressure - Phosphate Ester Resistant EPDM	-4/-20	-4/-20	-4/-20	43
341	SAE100R9AT	-6/-16	-6/-16	-6/-20	43
381	SAE100R2AT/DIN 20 022-2SN	-4/-20	-4/-20	-4/-20	43
421	SAE100R1AT	-4/-20	-4/-20	-4/-20	43
421HT	SAE100R1AT High Temperature	-4/-20	-4/-20	-4/-20	43
421WC	Medium Pressure Wire Cover	-4/-16	-4/-16	-4/-16	43
424	SAE 100R1AT - Phosphate Ester Resistant EPDM	-16/-20	-16/-20	-16/-20	43
431	"Compact" SAE 100R16	-4/-16	-4/-16	-4/-16	43
436	"Compact" SAE 100R16	-4/-16	-4/-16	-4/-16	43
451TC	Abrasion Resistant "Tough Cover" - Constant Pressure	-4/-16	-4/-16	-4/-16	43
451ST	Abrasion Resistant "Super Tough" Cover	-4/-16	-4/-16	-4/-16	43
471TC	High Pressure -Compact with "Tough Cover"	-6/-16	-6/-16	-6/-16	43
471ST	High Pressure - Compact with "Super Tough" Cover	-6/-16	-6/-16	-6/-16	43
482TC	SAE 100R1AT/DIN 20 022-1SN "Tough Cover"	-4/-16	-4/-16	-4/-16	43
482ST	SAE 100R1AT/DIN 20 022-1SN "Super Tough" Cover	-4/-16	-4/-16	-4/-16	43
601	SAE 100R3	-4/-16	-4/-16	-4/-16	43
604	SAE 100R3 - Phosphate Ester Resistant EPDM	-6,-8,-16	-6,-8,-16	-6,-8,-16	43
701	DIN 20 023-4SP	—	—	-6/-16	70
711	SAE 100R11	—	—	—	71
731	DIN 20 023-4SH	—	—	-12/-16	73
772TC	SAE 100R12 "Tough Cover"	—	—	-6/-20	71
772ST	SAE 100R12 "Super Tough" Cover	—	—	-6/-20	71
774	High Pressure - Phosphate Ester Resistant EPDM	—	—	-12/-20	71
77C	SAE 100R12	—	—	-6/-20	71
782TC	SAE 100R13 EN 856 Type R13 "Tough Cover"	—	—	-10/-16	78
782ST	SAE 100R13 EN 856 Type R13 "Super Tough" Cover	—	—	-10/-16	78
78C	SAE 100R13	—	—	-12/-16	78
792TC	SAE 100R15 "Tough Cover"	—	—	—	79
792ST	SAE 100R15 "Super Tough" Cover	—	—	—	79
881	SAE 100R4	-12/-20	-12/-20	-12/-20	43
881 / 811	SAE 100R4	-12/-20	-12/-20	-12/-20	81

Stainless Steel Fittings	Description	Karrykrimp Size Range	Parkrimp 1 Size Range	Karrykrimp 2 Size Range	Fitting Series
	43 Series Stainless Steel Fittings	—	—	-4/-20	43
	71 Series Stainless Steel Fittings	—	—	-6/-20	71

CHOOSE THE CORRECT NO-SKIVE PARKRIMP MACHINE TO MEET YOUR REQUIREMENTS – PHastkrimp, Superkrimp and Parkrimp 2 Unit Selection Instructions:

See prior page for Karrykrimp, Parkrimp 1 and Karrykrimp 2 table.

Step 1:

Select hydraulic hose that meets working pressure, fluid and temperature compatibility of your system. See *Hose - Section A*.

Step 2:

Identify hose size.

Step 3:

Identify Fitting Series, end configurations and size. See *Fittings - Section D*.

Step 4:

Based on hose type, hose size, and fitting series, identify which Parkrimp Machine will best service your requirements:

- Karrykrimp
- Parkrimp 1
- Karrykrimp 2
- PHastkrimp (**NEW**)
- Superkrimp
- Parkrimp 2

See *Parkrimp Crimping Equipment, Section M*.

Step 5:

Based on hose type, hose size, fitting series, and Parkrimp Machine, select the proper:

- a. Unitized die-train color coded by size, and
- b. Die Ring, Space Ring or Space Plate.

See *Parkrimp Crimping Equipment, Section M*.

Step 6:

Follow the selected Parkrimp Machine hose assembly instructions.

Step 7:

Check crimp diameter of 1st, 50th and last assembly produced in each size range.

Hose Number	Description	PHastkrimp Size Range	Superkrimp Size Range	Parkrimp 2 Size Range	Fitting Series
SS23CG	Liquefied Petroleum Gas and Compressed Natural Gas Hose (CGA Type III)	-6/-10	-6/-10	-6/-10	26
201	SAE100R5, SAE J1402AII	-4/-16	-4/-32	-4/-32	26
206	SAE 100R5 SAE J1402 All D.O.T.	-4/-16	-4/-32	-4/-32	26
213	SAE J1402AI	-4/-16	-4/-32	-4/-32	26
225	SAE100R5	-4/-16	-4/-32	-4/-32	26
235	SAE J51 Type D	-16	-16	-16	26
244	Refrigerant 134a Hose SAE J2064 Type B, Class I	-16/-20	-16/-24	-16/-24	26
261	SAE100R5, SAE J1402AII				26
266	SAE J1402AII	-4/-16	-4/-24	-4/-24	26
285	Air Conditioning and Refrigerant SAE J2064 Type C, Class I	-4/-12	-4/-12	-4/-12	26
293	Engine and Air Brake	-4/-12	-4/-12	-4/-12	26
301	SAE100R2AT	-4/-20	-4/-32	-4/-32	43
301LT	SAE100R2AT Low Temperature	-4/-16	-4/-16	-4/-16	43
304	High Pressure - Phosphate Ester Resistant EPDM	-4/-20	-4/-32	-4/-32	43
341	SAE100R9AT	-6/-20	-6/-20	-6/-20	43
381	SAE100R2AT/DIN 20 022-2SN	-4/-20	-4/-32	-4/-32	43
421	SAE100R1AT	-4/-20	-4/-32	-4/-32	43
421HT	SAE100R1AT High Temperature	-4/-20	-4/-32	-4/-32	43
421WC	Medium Pressure Wire Cover	-4/-16	-4/-16	-4/-16	43
424	SAE100R1AT - Phosphate Ester Resistant EPDM	-16/-20	-16/-32	-16/-32	43
431	"Compact" SAE 100R16	-4/-16	-4/-16	-4/-16	43
436	"Compact" SAE 100R16	-4/-16	-4/-16	-4/-16	43
451TC	Abrasion Resistant "Tough Cover" - Constant Pressure	-4/-16	-4/-16	-4/-16	43
451ST	Abrasion Resistant "Super Tough" Cover	-4/-16	-4/-16	-4/-16	43
471TC	High Pressure -Compact with "Tough Cover"	-6/-16	-6/-16	-6/-16	43
471ST	High Pressure - Compact with "Super Tough" Cover	-6/-16	-6/-16	-6/-16	43
482TC	SAE100R1AT/DIN 20 022-1SN "Tough Cover"	-4/-16	-4/-16	-4/-16	43
482ST	SAE100R1AT/DIN 20 022-1SN "Super Tough" Cover	-4/-16	-4/-16	-4/-16	43
601	SAE100R3	-4/-16	-4/-16	-4/-16	43
604	SAE 100R3 - Phosphate Ester Resistant EPDM	-6,-8,-16	-6,-8,-16	-6,-8,-16	43
701	DIN 20 023-4SP	-6/-16	-6/-16	-6/-16	70
711	SAE100R11	-----	-24	-24/-32	71
731	DIN 20 023-4SH	-12/-16	-12/-20	-12/-32	73
772TC	SAE100R12 "Tough Cover"	-6/-20	-6/-24	-6/-32	71
772ST	SAE100R12 "Super Tough" Cover	-6/-20	-6/-24	-6/-32	71
774	Very High Pressure - Phosphate Ester Resistant EPDM	-12/-20	-12/-24	-12/-32	71
77C	SAE100R12	-6/-20	-6/-24	-6/-32	71
782TC	SAE100R13 EN 856 Type R13 "Tough Cover"	-10/-16	-10/-20	-10/-24	78
782ST	SAE100R13 EN 856 Type R13 "Super Tough" Cover	-10/-16	-10/-20	-10/-24	78
78C	SAE100R13	-12/-16	-12/-20	-12/-32	78
792TC	SAE100R15 "Tough Cover"	—	-12/-16	-12/-20	79
792ST	SAE100R15 "Super Tough" Cover	—	-12/-16	-12/-20	79
881	SAE100R4	-12/-20	-12/-32	-12/-32	43
881 / 811	SAE 100R4	-12/-20	-12/-32	-12/-32	81

Stainless Steel Fittings	Description	PHastkrimp Size Range	Superkrimp Size Range	Parkrimp 2 Size Range	Fitting Series
	43 Series Stainless Steel Fittings	-4/-20	-4/-20	-4/-32	43
	71 Series Stainless Steel Fittings	-6/-20	-6/-20	-6/-32	71

Karrykrimp

82C-001

For use with 26, 43, 55 and 91N Series Fittings

The Karrykrimp is portable, compact and ruggedly built. The Karrykrimp gives you everything you need to crimp hoses from 1/4" to 1-1/4". In one convenient package, Model 82C-001, includes crimping machine, take-apart stand, hand pump, die rings, connection hose with quick coupling and die sets for 1/4", 3/8", 1/2", 3/4" and 1" hoses. (Die sets for 5/16", 5/8" and 1-1/4" hoses are available.) Karrykrimp has the same crimping capabilities as the Parkrimp 1, Model 80C-001.

U.S. Patent No. 4,577,485



Specifications:

Dimensions

15" wide, 12" deep,
 27" high

Weight

50 lbs. without power unit

Rating

30 tons force @ 10,000 psi
 maximum

Capability

- 1-1/4" SAE 100R1AT maximum
- 1-1/4" DIN 20 022-1SN maximum
- 1-1/4" SAE 100R2AT maximum
- 1-1/4" DIN 20 022-2SN maximum
- 1" SAE 100R3 maximum
- 1-1/4" SAE 100R4 maximum
- 7/8" SAE100R5 maximum
- 1" SAE 100R9AT maximum
- 1" SAE 100R16 maximum
- 7/8" SAEJ1402 AI maximum
- 7/8" SAEJ1402 All maximum

Set up Time

20 seconds

Full cycle time

30 seconds with electric pump

Note: Cycle times vary depending on hose and fitting styles and sizes.

Standard Equipment:

Model 82C-001 includes:

Karrykrimp Portable Crimper (base unit)	82C-080
2 Piece Stand	832021
Hand Pump	82C-0HP
Connection Hose with Quick Coupling	82C-00L
Die ring Color Coded Silver	82C-R01
Die ring Color Coded Black	82C-R02

43 Series Dies (Silver)

-4 (1/4") Color Coded Red	80C-A04
-6 (3/8") Color Coded Yellow	80C-A06
-8 (1/2") Color Coded Blue	80C-A08
-12 (3/4") Color Coded Green	80C-A12
-16 (1") Color Coded Black	80C-A16

Model 82C-002 includes:

Same as 82C-001 less hand pump.

Model 82C-061 includes:

Karrykrimp Portable Crimper (base unit)	82C-080
2 Piece Stand	832021
Die ring Color Coded Silver	82C-R01
Die ring Color Coded Black	82C-R02
Connection hose with Quick Coupling	82C-00L
No Pump	
No Dies	

Model 82C-080 includes:

Karrykrimp Portable Crimper (base unit)	82C-080
No Dies, Die Rings, Pumps or Connection Hose	

Optional Tooling:

26 Series Dies (Silver)

-4 (3/16") Color Coded Red	80C-E04
-5 (1/4") Color Coded Purple	80C-E05
-6 (5/16") Color Coded Yellow	80C-E06
-8 (13/32") Color Coded Blue	80C-E08
-10 (1/2") Color Coded Orange	80C-E10
-12 (5/8") Color Coded Green	80C-E12
-16 (7/8") Color Coded Black	80C-E16

Note: Crimp 213, 293, and 225 Hose with the 82C-R01 – Silver Die Ring for Karrykrimp.

Note: Crimp 201, 206, 235, 261, 266, and 274 Hose with the 82C-R02 – Black Die Ring for Karrykrimp.

43 Series Dies (Silver)

-4 (1/4") Color Coded Red	80C-A04
-5 (5/16") Color Coded Purple	80C-A05
-6 (3/8") Color Coded Yellow	80C-A06
-8 (1/2") Color Coded Blue	80C-A08
-10 (5/8") Color Coded Orange	80C-A10
-12 (3/4") Color Coded Green	80C-A12
-16 (1") Color Coded Black	80C-A16
-20 (1-1/4") Color Coded White	80C-A20

Note: Reference pages M6, M7 for information on Hand Pump (82C-0HP and 85C-0HP), Electric Pump (82C-0EP and 85C-0EP), Air/Hydraulic Pump (82C-0AP) and Rechargeable Battery-Powered Electric Pump (82C-3BP-1). For crimp instructions, see pages N16 - N18.
 9-ft. long connection hose w/QC (85C-09L).

Karrykrimp 2

85C-061

For use with 26, 43, 55, 70, 71, 73, 78 and 91N Series Fittings

Karrykrimp 2 is portable, compact and ruggedly built. The Karrykrimp 2 gives you everything you need to crimp hoses from 1/4" to 1-1/4" (through 4 spiral, SAE 100R12) and from 3/4" to 1" (through 6 spiral, SAE 100R13). In one convenient package, Model 85C-061 includes crimping machine, take-apart stand, die rings, and connection hose with quick coupling. Select the power unit and dies that meet your needs.



Specifications:

Dimensions

14" wide, 15" deep, 30" high

Weight

100 lbs. without power unit

Rating

60 tons force @ 10,000 psi maximum

Capability

- 1-1/4" SAE 100R1AT maximum
- 1-1/4" DIN 20 022-1SN maximum
- 1-1/4" SAE 100R2AT maximum
- 1-1/4" DIN 20 022-2SN maximum
- 1" SAE 100R3 maximum
- 1-1/4" SAE 100R4 maximum
- 7/8" SAE100R5 maximum
- 7/8" SAEJ1402 AI maximum
- 7/8" SAEJ1402 All maximum
- 1-1/4" SAE 100R9AT maximum
- 1-1/4" SAE 100R12 maximum
- 1" SAE 100R13 maximum
- 1" SAE 100R16 maximum

Set up Time

- 20 seconds

Note: Cycle times vary depending on hose and fitting styles and sizes.

Standard Equipment:

Model 85C-061 includes:

Karrykrimp 2 Portable Crimper (base unit)	85C-080
Die ring Color Coded Silver	85C-R01
Die ring Color Coded Black	85C-R02
Connection hose with Quick Coupling	82C-00L
Stand (2 piece)	832021
No Dies or Pumps	

Model 85C-080 includes:

Karrykrimp 2 Portable Crimper (base unit)	85C-080
No Dies, Die Rings, Stand, Pumps or Connection Hose.	

Model 85C-KDA (Die Kit) Includes: 43 Series -4, -6, -8, -12, -16, and -20 dies and 70/71 Series -6, -8, -12, -16, and -20 dies **ONLY.**

Optional Tooling:

26 Series Dies (Silver)

-4 (3/16")	Color Coded Red	80C-E04
-5 (1/4")	Color Coded Purple	80C-E05
-6 (5/16")	Color Coded Yellow	80C-E06
-8 (13/32")	Color Coded Blue	80C-E08
-10 (1/2")	Color Coded Orange	80C-E10
-12 (5/8")	Color Coded Green	80C-E12
-16 (7/8")	Color Coded Black	80C-E16

Note: Crimp 213, 293, and 225 Hose with the 85C-R01 – Silver Die Ring for Karrykrimp.

Note: Crimp 201, 206, 235, 261, 266 and 274 Hose with the 85C-R02 – Black Die Ring for Karrykrimp.

43 Series Dies (Silver)

-4 (1/4")	Color Coded Red	80C-A04
-5 (5/16")	Color Coded Purple	80C-A05
-6 (3/8")	Color Coded Yellow	80C-A06
-8 (1/2")	Color Coded Blue	80C-A08
-12 (3/4")	Color Coded Green	80C-A12
-16 (1")	Color Coded Black	80C-A16
-10 (5/8")	Color Coded Orange	80C-A10
-20 (1-1/4")	Color Coded White	80C-A20

70 and 71 Series Dies (Black)

-6 (3/8")	Color Coded Yellow	83C-D06
-8 (1/2")	Color Coded Blue	83C-D08
-10 (5/8")	Color Coded Orange	83C-D10
-12 (3/4")	Color Coded Green	83C-D12
-16 (1")	Color Coded Black	83C-D16
-20 (1-1/4")	Color Coded White	83C-D20

73 and 78 Series Dies (Olive Drab)

-12 (3/4")	Color Coded Green	80C-L12
-16 (1")	Color Coded Black	80C-L16

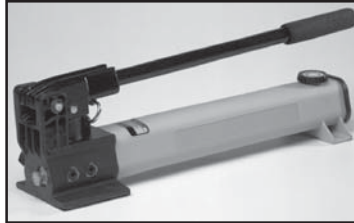
Note: Reference pages M6, M7 for information on Hand Pump (85C-0HP), Electric Pump (85C-0EP), Air/Hydraulic Pump (82C-0AP) and Rechargeable Battery-Powered Electric Pump (82C-3BP-1). For crimping instructions, see pages N19 - N21. 9-ft. long connection hose w/QC (85C-09L).

Hydraulic Hand Pump

82C-OHP

(For use with Karrykrimp only)

Ease of operation hand pump delivers 10,000 psi.



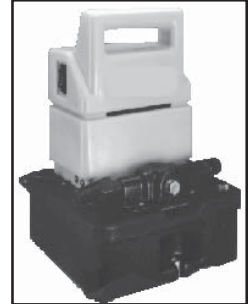
- Length - 22-11/16"
- Width - 3-1/4"
- Height - 4-11/16"
- Port size - 3/8" NPTF
- Hydraulic Fluid - Enerpac Oil

Electric Pump

82C-OEP

(For use with Karrykrimp only)

Heavy duty electric pump delivers 10,000 psi.



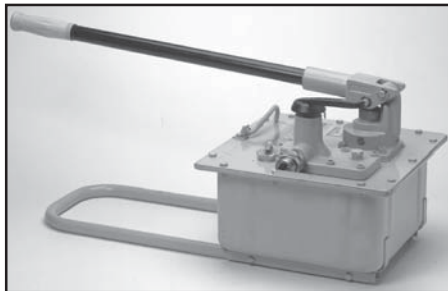
- Length - 12-1/8"
- Width - 12-5/8"
- Height - 15"
- Port Size - 3/8" NPTF
- Weight - 31 lb
- Hydraulic Fluid - Enerpac Oil
- 115 volt, 1 phase, 60 hertz

Hydraulic Hand Pump

85C-OHP

(For use with Karrykrimp and Karrykrimp 2)

Ease of operation hand pump delivers 10,000 psi.



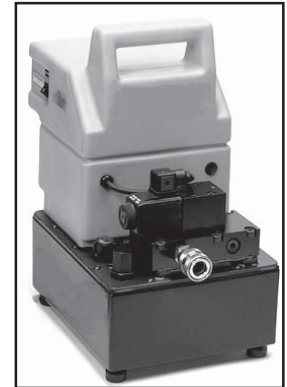
- Length - 28-15/16"
- Width - 12-1/8"
- Height - 11"
- Port Size - 3/8" NPTF
- Weight - 61 lb
- Hydraulic Fluid - Enerpac Oil

Electric Pump

85C-OEP

(For use with Karrykrimp and Karrykrimp 2)

Heavy duty electric pump delivers 10,000 psi at a faster cycle time.



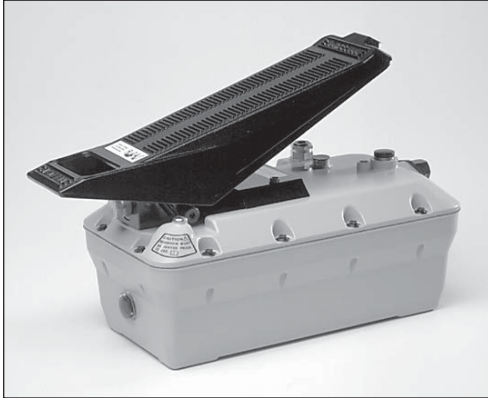
- Length - 14-1/8"
- Width - 9-1/2"
- Height - 22-3/4"
- Port Size - 3/8" NPTF
- Weight - 54 lb
- Hydraulic Fluid - Enerpac Oil
- 115 volt, 1 phase, 60 hertz

Air/Hydraulic Pump

82C-0AP

(For use with Karrykrimp and Karrykrimp 2)

Lightweight pump operates with 80-120 psi shop air pressure.



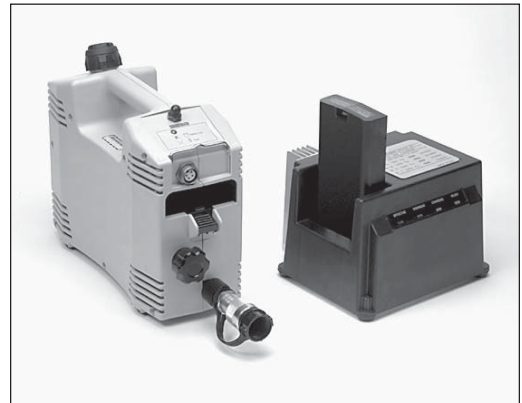
- Length – 14-3/4"
- Width – 5-5/8"
- Height – 5-3/4"
- Weight – 14lb
- Intake Port Size – 1/4" NPTF
- Output Port Size – 3/8" NPTF
- Hydraulic Fluid – Enerpac Oil

Rechargeable Battery-Powered Electric Pump

82C-3BP-1

(Includes battery & charger)
(For use with Karrykrimp and Karrykrimp 2)

Make hose assemblies with the push of a button. The power unit is driven by a 24V DC rechargeable battery pack. The battery charger fully charges the battery pack in one hour.



- Length – 16"
- Width – 5-1/8"
- Height – 11"
- Weight (without battery) – 16 lb.

Part Numbers

- 82C-4BP – 24V Battery and Battery Charger
- 82C-4BP-1 – 24V Battery
- 82C-4BP-2 – Battery Charger



MiniKrimp™ – Air over Hydraulic Model

For use with Parker HY, 43, 55, 57, 58, and 91N Series Fittings

With its cast aluminum design, the MiniKrimp™ Air over Hydraulic is lightweight, portable, and compact. This all-in-one unit is capable of crimping Parflex Division hose sizes up to 1".
 Note: Dies are sold separately.

Specifications

Approximate Size

with Pump: 6" wide, 12" deep, 15" high
Weight: 45 lbs. with air/hydraulic pump
 30 tons force @ 10,000 psi maximum

Rating

Capability
 (steel & brass)
 HY, 43, 55, 57, 58, 91N series fittings

- 1" SAE 100R1 maximum
- 1" SAE 100R2 maximum
- 1" SAE 100R7 maximum
- 1" SAE 100R8 maximum
- 1" SAE 100R12 maximum
- 1" SAE 100R14 maximum
- 1" SAE 100R16 maximum
- 1" SAE 100R17 maximum
- 1" SAE 100R18 maximum

Capability

(stainless steel)
 HY, 55, 57, 58, 91N series fittings

- 3/4" SAE 100R1 maximum
- 3/4" SAE 100R2 maximum
- 3/4" SAE 100R7 maximum
- 3/4" SAE 100R8 maximum
- 3/4" SAE 100R14 maximum
- 3/4" SAE 100R14 maximum
- 3/4" SAE 100R17 maximum
- 3/4" SAE 100R18 maximum

Set Up Time

Full Cycle Time 20 seconds
 Approx. 20 seconds to crimp a 3/8" hose
Note: Cycle times vary depending on hose and fitting styles and sizes.

Standard Equipment

Model 94C-002-PFD includes:

Part Description	Part Number
MiniKrimp™ Portable Crimping Machine	94C-080-PFD
Air over Hydraulic Pump Kit (includes tubing and adapters)	25411
Die Ring – Color Coded Silver	82C-R01-PFD

Optional Equipment:

Part Description	Part Number
Side Vise Mount	15736
Upright Table Mount	15306
Upright Vise Mount	15307
Die Ring – Color Coded Black	82C-R02-PFD
Hose Assembly	15309

For HY, 43, 55, 57, 58, and 91N Series tooling and crimping information, refer to Parker Parflex Catalog 4660 or the "Tools and Dies" section of this manual.

For MiniKrimp usage with HPD's offering of hose, fittings, and tooling and for crimping information, refer to Parker Hose Products Catalog 4400, Section C.

Current hose and fitting combinations, as well as proper crimp dimensions, are available from Parker Parflex Division for thermoplastic hose, and Parker Hose Products Division for rubber hose. Contact 1-800-C-PARKER for direction on obtaining current literature.

Note: Reference the following manual sections: "Accessories" for information on Hand Pump (015301 and 85C-0HP), Electric Pump (82C-0EP and 85C-0EP), and Air/Hydraulic Pump (82C-0AP and 025399); "Crimping Instructions" for assembly instructions using the MiniKrimp; "MiniKrimp Assembly Detail & Parts List" for a complete listing of parts.

All pumps are supplied to Parker by Enerpac. For repair or warranty work to any of the cylinders or pumps, contact your nearest Enerpac Service Center. For the Enerpac Service Center nearest you, call 1-800-558-0530 or visit the Enerpac web site at www.Enerpac.com.



MiniKrimp™ – Hand Pump Model

For use with Parker HY, 43, 55, 57, 58, and 91N Series Fittings

With its cast aluminum design, the MiniKrimp is lightweight, portable, and compact. This all-in-one unit is capable of crimping Parflex Division hose sizes up to 1". Note: Dies are sold separately.

Specifications

Approximate Size

with Pump: 6" wide, 12" deep, 15" high
Weight: 45 lbs. with air/hydraulic pump
 30 tons force @ 10,000 psi

Rating

Capability (steel & brass):
 HY, 43, 55, 57, 58, 91N series fittings

- maximum
- 1" SAE 100R1 maximum
- 1" SAE 100R2 maximum
- 1" SAE 100R7 maximum
- 1" SAE 100R8 maximum
- 1" SAE 100R12 maximum
- 1" SAE 100R14 maximum
- 1" SAE 100R16 maximum
- 1" SAE 100R17 maximum
- 1" SAE 100R18 maximum
- 3/4" SAE 100R1 maximum
- 3/4" SAE 100R2 maximum
- 3/4" SAE 100R7 maximum
- 3/4" SAE 100R8 maximum
- 3/4" SAE 100R14 maximum
- 3/4" SAE 100R14 maximum
- 3/4" SAE 100R17 maximum
- 3/4" SAE 100R18 maximum

Capability

(stainless steel)
 HY, 55, 57, 58, 91N series fittings

Set Up Time

Full Cycle Time: 20 seconds
 Approx. 20 seconds to crimp a 3/8" hose

Note: Cycle times vary depending on hose and fitting styles and sizes.

Standard Equipment

Model 94C-002-PFD includes:

Part Description	Part Number
MiniKrimp™ Portable Crimping Machine	94C-080-PFD
Air over Hydraulic Pump Kit (includes tubing and adapters)	25411
Die Ring – Color Coded Silver	82C-R01-PFD

Optional Equipment:

Part Description	Part Number
Side Vise Mount	15736
Upright Table Mount	15306
Upright Vise Mount	15307
Die Ring – Color Coded Black	82C-R02-PFD
Hose Assembly	15309

For HY, 43, 55, 57, 58, and 91N Series tooling and crimping information, refer to Parker Parflex Catalog 4660 or the "Tools and Dies" section of this manual.

For MiniKrimp usage with HPD's offering of hose, fittings, and tooling and for crimping information, refer to Parker Hose Products Catalog 4400, Section C.

Current hose and fitting combinations, as well as proper crimp dimensions, are available from Parker Parflex Division for thermoplastic hose, and Parker Hose Products Division for rubber hose. Contact 1-800-C-PARKER for direction on obtaining current literature.

Note: Reference the following manual sections: "Accessories" for information on Hand Pump (015301 and 85C-0HP), Electric Pump (82C-0EP and 85C-0EP), and Air/Hydraulic Pump (82C-0AP and 025399); "Crimping Instructions" for assembly instructions using the MiniKrimp; "MiniKrimp Assembly Detail & Parts List" for a complete listing of parts.

All pumps are supplied to Parker by Enerpac. For repair or warranty work to any of the cylinders or pumps, contact your nearest Enerpac Service Center. For the Enerpac Service Center nearest you, call 1-800-558-0530 or visit the Enerpac web site at www.Enerpac.com.

Upright Vise Mount

Part No. 015307
(for use with MiniKrimp™ only)



Weight 1.7 lbs.

3/8"-16 UNC 1" long bolts are required for mounting bracket to crimper. Mounting bolts are **not** included.

Upright Table Mount

Part No. 015306
(for use with MiniKrimp™ only)



Weight 2.2 lbs.

3/8"-16 UNC 1" long bolts are required for mounting bracket to crimper. Mounting bolts are **not** included.

Side Vise Mount

Part No. 015736
(for use with MiniKrimp™ only)

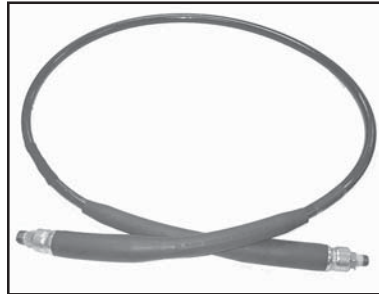


Weight 1.4 lbs.

1/4"-20 UNC 1" long bolts are required for mounting bracket to crimper. Mounting bolts are **not** included.

Attachable Hose Assembly

Part No. 015309
(for use with MiniKrimp™ only)



Size 1/4" I.D.
 Pressure Rating 10,000 psi W.P.
 Length 6 ft.
 End Connections: 1/4" NPTF

Bent Tube

Part No. 015308
(for use with MiniKrimp™ Hand Pump Model only)



Bent Tube

Part No. 025349
(for use with MiniKrimp™ Air Over Hydraulic Model only)



Air Over Hydraulic Pump

Part No. 025399

Lightweight pump operates with 80 - 120 psi shop air pressure.



Length 13"
 Width 4-1/2"
 Height 5"
 Weight 12 lbs.
 Intake Port Size 1/4" NPTF
 Output Port Size 1/8" NPTF
 Hydraulic Fluid Enerpac Oil

Parkrimp 1

80C-001

(For use with 26, 43, 55 & 91N Series Fittings)



The Parkrimp 1, Model 80C-001, gives you everything you need to crimp hoses from 1/4" to 1-1/4" in one convenient package. It includes crimping machine, electric pump, die rings, die sets for 1/4", 3/8", 1/2", 3/4" and 1" hoses. (Die sets for 5/16", 5/8" and 1-1/4" hoses are available.)

All you need to be in business is a small inventory of Parker No-Skive hose and Parker Parkrimp No-Skive fittings.

Specifications

Dimensions 26" wide, 19-1/2" deep, 24-1/4" high
Weight 275 lbs. with power unit
Rating 30 tons force @ 3,000 psi maximum
Capability
 - 1-1/4" SAE 100R1AT maximum
 - 1-1/4" DIN 20 022-1SN maximum
 - 1-1/4" SAE 100R2AT maximum
 - 1-1/4" DIN 20 022-2SN maximum
 - 1" SAE 100R3 maximum
 - 1-1/4" SAE 100R4 maximum
 - 7/8" SAE100R5 maximum
 - 1" SAE 100R9AT maximum
 - 1" SAE 100R16 maximum
 - 7/8" SAEJ1402 AI maximum
 - 7/8" SAEJ1402 All maximum
Set up time 20 seconds
Full cycle time 20 seconds
Hydraulic Fluid SAE 30W

Note: Cycle times vary depending on hose and fitting styles and sizes.

Standard Equipment:

Model 80C-001 includes:

Parkrimp 1 Crimper with 115/230 volt, 1 phase, 60 hertz power unit wired for 115V. **Note:** Must run on a dedicated 20 AMP circuit.
 Die ring Color Coded Silver 80C-R01
 Die ring Color Coded Black 80C-R02

43 Series Dies (Silver)

-4 (1/4") Color Coded Red 80C-A04
 -6 (3/8") Color Coded Yellow 80C-A06
 -8 (1/2") Color Coded Blue 80C-A08
 -12 (3/4") Color Coded Green 80C-A12
 -16 (1") Color Coded Black 80C-A16

Model 80C-061 includes:

Parkrimp 1 Crimper 80C-081
 Die ring Color Coded Silver 80C-R01
 Die ring Color Coded Black 80C-R02
 No Dies – Order separately from list below

Model 80C-081 includes:

Parkrimp 1 Crimper 80C-080
 115/230 volt, 1 phase, 60 Hz power unit wired for 115V 80C-110
 No Die Rings
 No Dies – Order separately from list below

Optional Tooling:

26 Series Dies (Silver)

-4 (3/16") Color Coded Red 80C-E04
 -5 (1/4") Color Coded Purple 80C-E05
 -6 (5/16") Color Coded Yellow 80C-E06
 -8 (13/32") Color Coded Blue 80C-E08
 -10 (1/2") Color Coded Orange 80C-E10
 -12 (5/8") Color Coded Green 80C-E12
 -16 (7/8") Color Coded Black 80C-E16

Note: Crimp 213, 293, and 225 Hose with the 80C-R01 – Silver Die Ring.

Note: Crimp SS25, 201, 206, 235, 261, 266, 274, & 296 Hose with the 80C-R02 – Black Die Ring.

43 Series Dies (Silver)

-4 (1/4") Color Coded Red 80C-A04
 -5 (5/16") Color Coded Purple 80C-A05
 -6 (3/8") Color Coded Yellow 80C-A06
 -8 (1/2") Color Coded Blue 80C-A08
 -10 (5/8") Color Coded Orange 80C-A10
 -12 (3/4") Color Coded Green 80C-A12
 -16 (1") Color Coded Black 80C-A16
 -20 (1-1/4") Color Coded White 80C-A20

Superkrimp

88C-081

For use with 26, 43, 70, 71, 73, 78, and 79 (Series Fittings)

Only Parker offers a No-Skive system for SAE100R13 spiral hose up to 1-1/4" in diameter and SAE100R15 spiral hose up to 1" in diameter.



43 Series Dies (Silver)

-4 (1/4")	Color Coded Red	80C-A04
-5 (5/16")	Color Coded Purple	80C-A05
-6 (3/8")	Color Coded Yellow	80C-A06
-8 (1/2")	Color Coded Blue	80C-A08
-10 (5/8")	Color Coded Orange	80C-A10
-12 (3/4")	Color Coded Green	80C-A12
-16 (1")	Color Coded Black	80C-A16
-16 (1")	Color Coded Black	83C-A16H*
-20 (1-1/4")	Color Coded White	80C-A20
-20 (1-1/4")	Color Coded White	83C-A20H*
-24 (1-1/2")	Color Coded Red	83C-A24
-32 (2")	Color Coded Green	83C-A32

70 and 71 Series Dies (Black)

-6 (3/8")	Color Coded Yellow	83C-D06
-8 (1/2")	Color Coded Blue	83C-D08
-10 (5/8")	Color Coded Orange	83C-D10
-12 (3/4")	Color Coded Green	83C-D12
-16 (1")	Color Coded Black	83C-D16
-16 (1")	Color Coded Black	83C-D16H*
-20 (1-1/4")	Color Coded White	83C-D20
-20 (1-1/4")	Color Coded White	83C-D20H*
-24 (1-1/2")	Color Coded Red	83C-D24

73 and 78 Series Dies (Olive Drab)

-12 (3/4")	Color Coded Green	83C-L12
-16 (1")	Color Coded Black	83C-L16
-20 (1-1/4")	Color Coded White	83C-L20

79 Series Dies (Olive Drab)

-12 (3/4")	Color Coded Green	83C-L12
-16 (1")	Color Coded Black	83C-L16

Standard Equipment:

Model 88C-081 includes: Superkrimp crimper with 230/460 volt, 3 phase, 50/60 Hz power unit wired for 230 volts

Adapter bowl	83C-OCB
Spacer Ring	83C-R02
Spacer Plate	83C-R02H

No Dies - Order separately from list below

Model 88C-082 includes: Superkrimp crimper with 115/230 volt, 1 phase, 60 Hz power unit wired for 230 volts

Adapter bowl	83C-OCB
Spacer Ring	83C-R02
Spacer Plate	83C-R02H

No Dies - Order separately from list below

Model 88C-KDA (Die Kit) includes: 43 Series -4, -6, -8, -12, -16, and -20 dies and 70/71 Series -6, -8, -12, -16, -20 and -24 dies **ONLY**.

Optional Tooling:

26 Series Dies (Silver)

-4 (3/16")	Color Coded Red	80C-E04
-5 (1/4")	Color Coded Purple	80C-E05
-6 (5/16")	Color Coded Yellow	80C-E06
-8 (13/32")	Color Coded Blue	80C-E08
-10 (1/2")	Color Coded Orange	80C-E10
-12 (5/8")	Color Coded Green	80C-E12
-16 (7/8")	Color Coded Black	80C-E16
-20 (1-1/8")	Color Coded White	83C-E20
-24 (1-3/8")	Color Coded Red	83C-E24
-32 (1-13/16")	Color Coded Green	83C-E32

Note: 213, 293, and 225 Hose does not require the Spacer Ring (83C-R02).

Note: Crimp SS25, 201, 206, 235, 261, 266, 274, & 296 Hose with the Spacer Ring – 83C-R02 or Spacer Plate – 3C-R02H based on hose size.

Specifications

Dimensions	20" wide, 27" deep, 40" high
Weight	530 lbs.
Rating	70 tons force @ 5,000 psi maximum
Capability	<ul style="list-style-type: none"> - 2" SAE 100R1AT maximum - 2" SAE 100R2AT (1-1/4" for stainless steel fitting) maximum - 1" SAE 100R3 maximum - 2" SAE 100R4 maximum - 1-13/16" SAE100R5 maximum - 1-13/16" SAEJ1402 Al maximum - 1-13/16" SAEJ1402 All maximum - 1-1/4" SAE 100R9AT maximum - 1-1/2" SAE100R12 (1-1/4" for stainless steel fittings) - 1-1/4" SAE100R13 maximum - 1" SAE100R15 maximum - 1" SAE 100R16 maximum
Set up time	- 20 seconds
Full cycle time	- 20 seconds without adapter bowl - 15 seconds with adapter bowl
Hydraulic Oil	Enerpac Oil

Note: Cycle times vary depending on hose and fitting styles and sizes.

Note: Hose assemblies must be inspected for cleanliness and free of all foreign particles. Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Note: *83C-D16H, 83C-D20H, 83C-A16H, 83C-A20H are used with jump size fittings and certain metric fittings to permit insertion and removal of fittings.

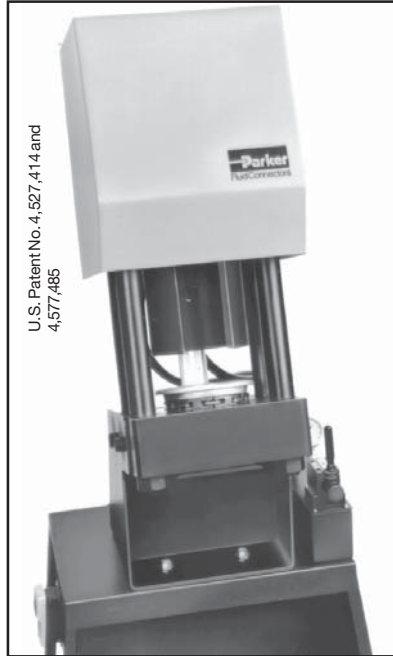
Note: The 83C-R02H Spacer Plate must be used when using the 83C-A16H, 83C-A24, 83C-A20H or 83C-A32 to crimp SAE100R2 and SAE100R4 hose.

Parkrimp 2

83C-001 & 83C-002

For use with 26, 43, 70, 71, 73, 78, and 79 (Series Fittings)

Only Parker offers a No-Skive system for SAE100R13 spiral hose up to 2" in diameter and SAE100R15 spiral hose up to 1-1/4" in diameter.



Note: Crimp SS25, 201, 206, 235, 261, 266, 274, & 296 Hose with the Spacer Ring – 83C-R02 or Spacer Plate – 83C-R02H based on hose size.

43 Series Dies (Silver)

-4 (1/4")	Color Coded Red	80C-A04
-5 (5/16")	Color Coded Purple	80C-A05
-6 (3/8")	Color Coded Yellow	80C-A06
-8 (1/2")	Color Coded Blue	80C-A08
-10 (5/8")	Color Coded Orange	80C-A10
-12 (3/4")	Color Coded Green	80C-A12
-16 (1")	Color Coded Black	80C-A16
-16 (1")	Color Coded Black	83C-A16H*
-20 (1-1/4")	Color Coded White	80C-A20
-20 (1-1/4")	Color Coded White	83C-A20H*
-24 (1-1/2")	Color Coded Red	83C-A24
-32 (2")	Color Coded Green	83C-A32

71 Series Dies (Black)

-6 (3/8")	Color Coded Yellow	83C-D06
-8 (1/2")	Color Coded Blue	83C-D08
-10 (5/8")	Color Coded Orange	83C-D10
-12 (3/4")	Color Coded Green	83C-D12
-16 (1")	Color Coded Black	83C-D16
-16 (1")	Color Coded Black	83C-D16H*
-20 (1-1/4")	Color Coded White	83C-D20
-20 (1-1/4")	Color Coded White	83C-D20H*
-24 (1-1/2")	Color Coded Red	83C-D24
-32 (2")	Color Coded Green	83C-D32

73 and 78 Series Dies (Olive Drab)

-12 (3/4")	Color Coded Green	83C-L12
-16 (1")	Color Coded Black	83C-L16
-20 (1-1/4")	Color Coded White	83C-L20
-24 (1-1/2")	Color Coded Red	83C-L24
-32 (2")	Color Coded Green	83C-L32

79 Series Dies (Olive Drab)

-12 (3/4")	Color Coded Green	83C-L12
-16 (1")	Color Coded Black	83C-L16
-20 (1-1/4")	Color Coded White	83C-L20

Specifications:

Dimensions	28" wide, 22" deep, 70" high
Weight	Head-558 lbs., Base-284 lbs., Total-843 lbs.
Rating	125 tons force @ 5,000 psi maximum
Capability	- 2" SAE 100R1AT maximum - 2" SAE 100R2AT maximum - 1" SAE 100R3 maximum - 2" SAE 100R4 maximum - 1-13/16" SAE100R5 maximum - 1-13/16" SAEJ1402 Al maximum - 1-13/16" SAEJ1402 All maximum - 1-1/4" SAE 100R9AT maximum - 2" SAE 100R12 maximum - 2" SAE 100R13 maximum - 1-1/4" SAE100R15 maximum - 1" SAE 100R16 maximum - All stainless steel fittings

Set up time	30 seconds
Full cycle time	30 seconds without adapter bowl 20 seconds with adapter bowl

Hydraulic Oil Enerpac Oil

Note: Cycle times vary depending on hose and fitting styles and sizes.

Standard Equipment:

Model 83C-001 includes: Parkrimp 2 Crimper Head Assembly 83C-080
Parkrimp 2 Stand Assembly with 230/460 volt, 3 phase, 50/60 Hz power unit (wired for 230 volt) 83C-S40
Adapter Bowl 83C-OCB
Spacer Ring 83C-R02
Spacer Plate 83C-R02H
Die Kit 83C-KDA

Model 83C-081 includes: Model 83C-001 less dies

Model 83C-002 includes: Parkrimp 2 Crimper Head Assembly 83C-080
Parkrimp 2 Stand Assembly with 230 Volt, 1 phase, 60 Hz power unit 83C-S20
Adapter Bowl 83C-OCB
Spacer Ring 83C-R02
Spacer Plate 83C-R02H
Die Kit 83C-KDA

Model 83C-082 includes: Model 83C-002 less dies

Model 83C-KDA (Die Kit) Includes: 43 Series -4, -6, -8, -12, -16, and -20 dies and 70/71 Series -6, -8, -12, -16, -20, -24 and -32 dies **ONLY.**

Optional Tooling:

26 Series Dies (Silver)

-4 (3/16")	Color Coded Red	80C-E04
-5 (1/4")	Color Coded Purple	80C-E05
-6 (5/16")	Color Coded Yellow	80C-E06
-8 (13/32")	Color Coded Blue	80C-E08
-10 (1/2")	Color Coded Orange	80C-E10
-12 (5/8")	Color Coded Green	80C-E12
-16 (7/8")	Color Coded Black	80C-E16
-20 (1-1/8")	Color Coded White	83C-E20
-24 (1-3/8")	Color Coded Red	83C-E24
-32 (1-13/16")	Color Coded Green	83C-E32

Note: 213, 293, and 225 Hose *does not require* the Spacer Ring (83C-R02).

Note: Hose assemblies must be inspected for cleanliness and free of all foreign particles. Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Note: *83C-D16H, 83C-D20H, 83C-A16H, 83C-A20H are used with jump size fittings and certain metric fittings to permit insertion and removal of fittings.

Note: The 83C-R02H Spacer Plate must be used when using the 83C-A16H, 83C-A24, 83C-A20H or 83C-A32 to crimp SAE100R2 and SAE100R4 hose.

Hydraulic Press Kit

8PC-001

Now you can convert your hydraulic press to utilize Parker Parkrimp No-Skive, thru the cover, wire-grip fittings. Crimping is easy and quick using the Parkrimp 8PC-001 Conversion Kit.

Minimum Press Capacity

Hose Dash Size

-4, -5, -6, -8
 -10, -12, 16, -20

20 Ton Press
 30 Ton Press

TO ORDER:

Hydraulic Press Kit
 Kit includes:
 Die Size 4,6,8,12,16
 Die Ring - 100R1 (Silver)
 Die Ring - 100R2 (Black)
 Pusher
 Bowl Assembly

Part Number
8PC-001

81C-R01
81C-R02
8PC-00P
8PC-030



Parflex Conversion Kits

8PC-001-PFD
8WC-001-PFD

Gates Conversion Kit

8GC-002

Convert the Gates 701, 703 and 707 bottom loading crimp machines to crimp Parkrimp 43 series no-skive, thru-the-cover, wire grip fittings. Crimping is easy and quick using the Parkrimp 8GC-002 conversion kit.

TO ORDER:

Number

Gates Conversion Kit
 (for Gate 701, 703 and 707 machines)

Kit includes:
 Die Size 4,6,8,10, 12
 Die Ring - 100R1 (Silver)
 Die Ring - 100R2 (Black)
 Bowl Assembly

Part
8GC-001

81C-R01
81C-R02
8PC-030



Weatherhead Conversion Kit

8WC-001

Convert Weatherhead T-400 Crimpers to utilize Parker Parkrimp No Skive, thru the cover, wire-grip fittings. Crimping is easy and quick using the Parkrimp 8WC-002 conversion kit.

TO ORDER:

Weatherhead Conversion Kit
 (for T-400 machines)

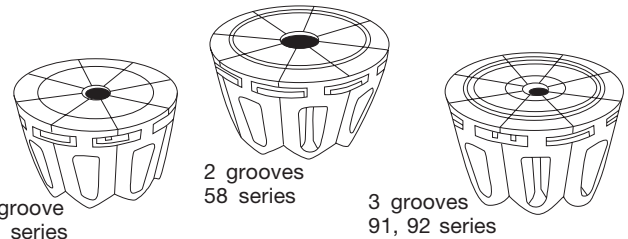
Kit includes:
 Die Size 4,6,8,12
 Die Ring - 100R1 (Silver)
 Die Ring - 100R2 (Black)
 Pusher
 Bowl Assembly

Part Number
8WC-001

81C-R01
81C-R02
8WC-00P
8PC-030



Parflex Parkrimp Dies



Parflex introduces the newly designed Parkrimp dies, specifically engineered for thermoplastic and Teflon constructed hose.

The die segments are linked together so that there are no loose parts to handle or mismatch. Each die is well defined with identification grooves to indicate the fitting series, and is color coded to specify the fitting size.

This die is for use with the Parker Parkrimp and KarryKrimp units.

Note: Parflex dies have been designed for use with the silver die ring.

Parkrimp silver die ring part no. **80C-R01 or 85C-R01 for KarryKrimp II**

KarryKrimp silver die ring part no. **82C-R01**
 Used with all Parflex hoses.

For GPH hose, use HBL brass hose barbs (see page G44) with the following crimp shells and dies:

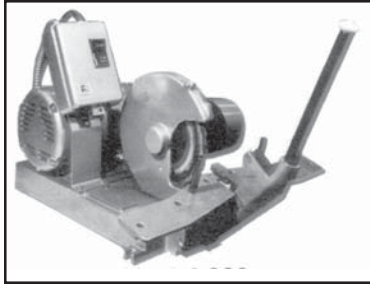
Shells	Die
1893-3	80C-GPH3
1893-4	80C-GPH4
1893-6	80C-GPH6
1893-8	80C-GPH8
1893-10	80C-GPH10
1893-12	80C-GPH12
1893-16	80C-GPH16

Hose Cut-Off Machine

339 and 239

Model 339

Designed for heavy duty use. Will cut multi-braided wire reinforced hoses including 6 heavy spiral constructions up to 2" inside diameters. Model 339 comes equipped with 2 cut-off blades of a special scalloped construction. Equipped with 3 HP motor 230V, 3 phase, 60 cycle.



Dimensions: 22" wide x 42" long x 24" high

Shipping Weight: 215 lbs.

Replacement Cutting Blade (10" with 3/4" arbor size) Part No. **24248**

Replacement Smooth Cutting Blade Part No. **15960**

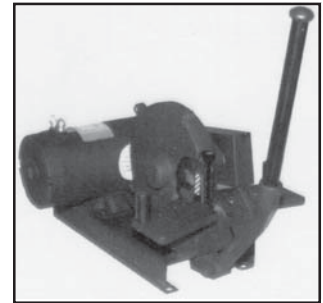
Model 239

This is Model 339 with 230V single-phase motor Part No. **239**. For additional information see Bulletin 4497-B11.

Hose Cut-Off Machine

332T-12VDC

Designed primarily for fast, efficient cutting of multi-spiral wire reinforced hydraulic hose. This machine is equipped with the scalloped edge cutting blade that will consistently cut 4 spiral hose up through and including 1-1/4" (31,8mm) I.D. as well as one and two wire braid reinforced hydraulic hose. The scalloped blade efficiently cuts hose with minimum of smoke, dust and internal debris inherent with other types of cutting equipment. Has a 1-1/2 HP, 12 volt, 115 amps, 3500 RPM DC permanent magnet motor.



Model 332T-12VDC will cut:

- 1 wire braid (SAE 100R1)—2" maximum;
- 2 wire braid (SAE 100R2)—2" maximum;
- 4 wire braid (SAE 100R12)—1-1/4" maximum;
- (SAE100R13)—1" maximum.

Dimensions: 13" wide x 26" long x 22" high (333,2mm x 660,4mm x 558,8mm)

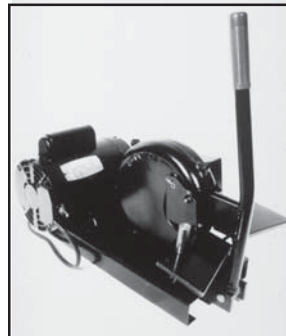
Shipping Weight: 67 lbs. (30,4kg.)

Blade: 8" (203,2mm) O.D. 5/8" (15,8mm) arbor, special scalloped edge. Precision ground and finely edged - may be resharpeded.

Hose Cut-Off Machine

332T-115V

Power unit for quick, easy cutting of cotton or rubber covered fabric braid or wire reinforced hose. Equipped with 1-1/2 HP, 3650 RPM, 115/230V single phase electric motor wired for 115V. Belt driven cutting wheel of high speed steel, hardened and ground for smooth, dust-free, long-lasting service. Moving parts shielded by guards.



Model 332T-115V will cut:

- Two wire braid, 1-1/4" maximum
- One wire braid, 2" maximum
- Four spiral, 1-1/4" maximum

Replacement Smooth Cutting Blade (8" with 5/8" arbor size) Part No. **580661**

Replacement Scallop Cutting Blade Part No. **24398**

**Hose Cut-Off Machine -
 Karrykut**

631075

A portable power saw for cutting on the job. Hardened steel blade powered by 115V (13 amp) universal AC motor. Hand grip, trigger control. Unique clamp spreads hose as it is cut to prevent binding of blade.



Cuts rubber and cotton covered, wire or fabric reinforced hose from: 1/4" through 2" inside diameter.

Cuts 4 spiral light wire hose: 1-1/4" maximum

Universal Clamp Attachment: Part No. **631076**
 Universal clamp attachment may be used with any portable power saw unit having a 5/8" arbor, 8" blade capacity.

Replacement Cutting Blade (8" with 5/8" arbor size) Part No. **580661**

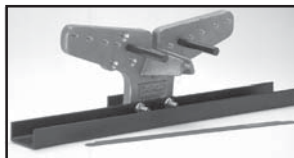
Replacement Power Saw (less clamp and blade): Part No. **631140**

Request Bulletin 4497-B2 for operating instructions.

**Hose Cut-Off Tool -
 Handykut**

871522

Handykut is a portable tool designed for efficient cutting of hose. Once Handykut is positioned onto a flat surface by clamps or by locking it in a vise, properly align the hose in a radius and cut it with a hacksaw.



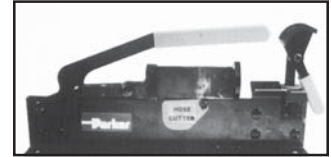
**Push-Lok Cut-Off &
 Assembly Tool**

881540

This unique tool combines a hose cutter with a toggle-action that presses the fitting into the hose. Designed to handle Push-Lok hose from 1/4" through 3/4", this tool makes the job easier whether you are making one assembly or a hundred.

Overall length: 16"

Weight: Approximately 4 pounds



Hose Cut-Off Tool

316

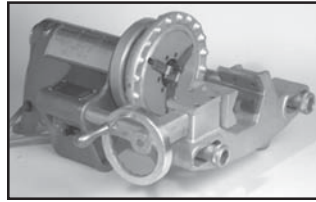
Model 316 hose cut-off tool is a small size, easy to use, manually operated unit for quick cutting of Parker P80, 231, 235, 293, 296, and 601 hoses. It can also be used for Push-Lok hose 801, 804, 821, 821FR, 831 and 836. Ruggedly built for years of trouble-free service.



Hozemblem

424C

The Model 424C Hozemblem was developed in response to field requirements for faster coupling attachment. The 424C is a modified version of the rugged field-proven Model 432 and is identical in features except the faster chuck speed of 102 RPM -vs- Model 432 chuck speed of 32 RPM. 424C size range is limited to size 24 (1-1/2" I.D.) hose and straight couplings, no bent tube or shape capability.



Model 424C Hozemblem
 (complete with hose vise and adapter):
 Fold-up mounting stand:
 Foot Switch:

Part No. **424C**
 Part No. **662451**
 Part No. **741500**

Replacement Parts

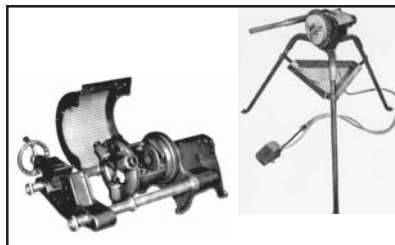
424C hose vise
 (complete with 662453 and 662454):
 Hose vise jaw insert:
 Hose vise jaw adapter:
 Chuck jaws:
 Request Bulletin 4497-B5 for operating instructions.

Part No. **662452**
 Part No. **662453**
 Part No. **662454**
 Part No. **692215**

Hozemblem

432-115V

The 432 Hozemblem is a power machine to facilitate the attachment of reusable hose fittings. It readily handles all types of hose and fittings in sizes -3 through -32 I.D., including standard bent tube elbow. The 432 will also handle assembly of 4 heavy wire spiral through -24, I.D. 115V, 30 amp, universal AC motor. Model 432 is supplied complete with foot switch and safety guard.



Model 432 Hozemblem
 (complete with vise and all adapters)
115V

Part No. **432-**
 Part No. **662451**

Mounting stand:

Replacement Parts

Hose vise (complete with 662453 and 662454)
 Hose vise jaw plate
 Hose vise jaw adapter
 Chuck jaws

Part No. **662452**
 Part No. **662453**
 Part No. **662454**
 Part No. **662455**

Chuck jaws adapter set for use with most bent tube ends and hose fitting hex sizes up to 1/2".

Part No. **662456**

Request Bulletin 4497-B2 for operating instructions.

Hoze-Oil

Parker's improved hose assembly lubricant reduces hose assembly make-up time.

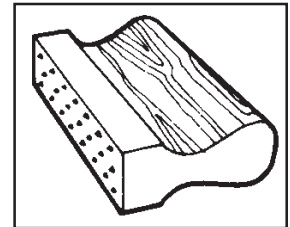
Hoze-Oil reduces torque and eliminates waste lubrication. It's cleaner, too! Simply dip the cut hose ends into Parker Hoze-Oil and proceed with the Parkrimp or Reusable fitting hose assembly make-up.



Hoze-Oil Part No. **Hoze-Oil**

Hose Perforator

Small hand tool to prick minute holes in the rubber cover of hose to be used in gaseous service where the pressure exceeds 250 psi. The Hose Perforator is intended to be held in the hand and driven into the cover every few inches of length either striking the hose or by a rolling action over the hose cover. It is not generally necessary to perforate the hose on all sides.

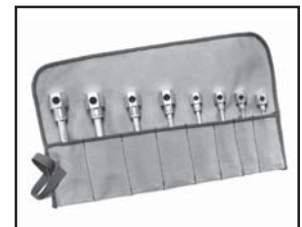


Hose Perforator Part No. **601069**

Mandrel Tool Kit - 22 Series

652200

The Mandrel Tool Kit is for assembling Parker 22 Series hose fittings. One of each of the parts listed below are included in the kit.



Hose I.D.	Dash Size	SAE (JIC) 37° Part No.	SAE 45° Part No.
3/16	4	631073-4	631073-4
1/4	5	631073-5	631073-5
5/16	6	631073-6	631074-6
1/2	8	631073-8	631073-8
1/2	10	631073-10	631073-10
5/8	12	631073-12	631074-12

Mandrel Tool Kit - 23 Series

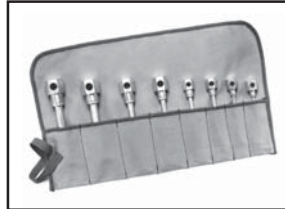
2727

(for JIC 37° flared fittings)

2726

(for SAE 45° & PTT 30° flared fittings)

The Mandrel Tool Kit is for assembling 23 Series hose fittings. One of each of the parts listed below are included in the kit.



Note: Includes all tools for assembling JIC and SAE fittings in sizes -4 through -12.

Hose I.D.	Dash Size	Kit No. 2727 JIC 37° Flare	Kit No. 2726 SAE 45°
3/16	4	2726-1-4-4S	2726-1-4-4S
1/4	5	2726-1-5-5S	2726-1-5-5S
5/16	6	2727-1-6-6S	2726-1-6-6S
13/32	8	2726-1-8-8S	2726-1-8-8S
1/2	10	2726-1-10-10S	2726-1-10-10S
5/8	12	2727-1-12-12S	2727-1-12-12S
7/8	16	2727-1-16-16S	2728-1-16-16S

Assembly Tools - 22 Series

652201

The Model No. 652201 tool kit is for assembling 22 Series hose fittings. One of each of the parts listed below are included in the kit.



Note: JIC, SAE, and PTT mandrels are interchangeable in all sizes except -6, -12, -16, -20 and -24.

Hose I.D.	Dash Size	SAE (JIC) 37° Part No.	PTT 30° Part No.
7/8	16	631073-16	631074-16
1 1/8	20	631073-20	631074-20
1 3/8	24	631073-24	631074-24
1 13/16	32	631073-32	631073-32

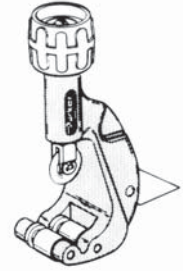
Kloskut Tube Cutter

218B

Adjustable tube cutter to produce square ends with no external burr and minimum internal burring in soft copper, brass, aluminum and steel tubing.

Note: the 218B is not recommended for use with stainless steel tubing because of the work hardening effect.

For tubing sizes 2 (1/8" O.D.) to 18 (1-1/8") Die-cast aluminum frame.



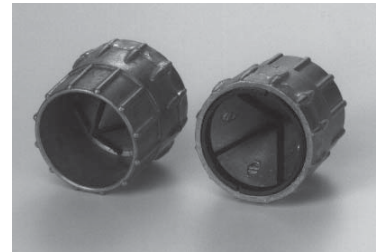
IN-EX® Tube De-Burring Tool

226

(De-Burring Tool)

226 Blades

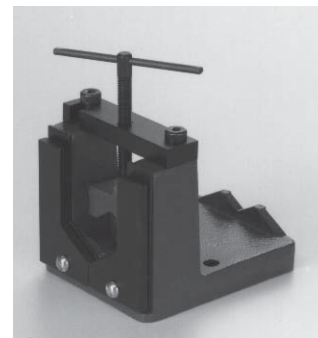
(Replacement Blades)



De-burrs both inside and outside of copper, brass, aluminum or annealed steel tubing. For sizes from 2 (1/8" O.D.) to 26 (1-5/8" O.D.).

Tru-Kut® Sawing Vise

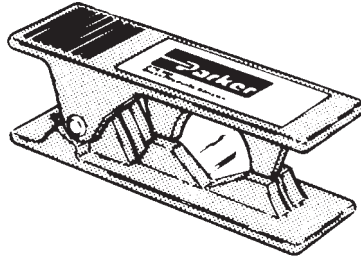
710439



Plastic Tube Cutter

PTC-001

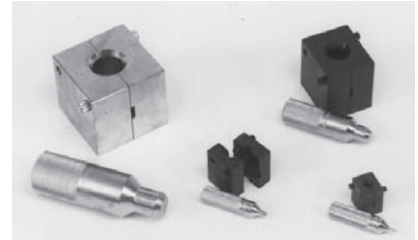
May be used with polyethylene, polypropylene, nylon and other plastic tubing.
 For tube O.D. sizes 1/8" to 1/2".



Vice Block with Flaring Pin

2866

Sizes 4(1/4") to 12(3/4")



Combination Flarer

210A

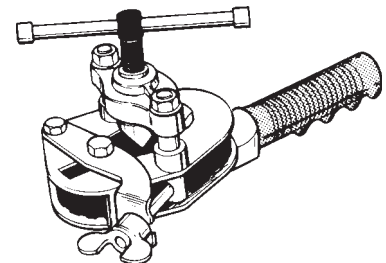
37° Tube Flarer
Sizes 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" O.D. Tube



Rolo-Flair® Manual Rotary Flaring Tool

212FB & 945TH

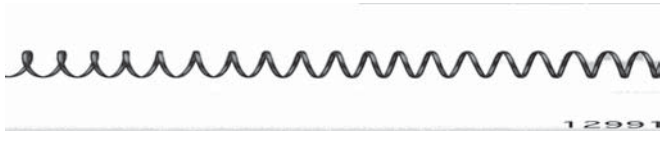
37° and 45° Flaring Tools



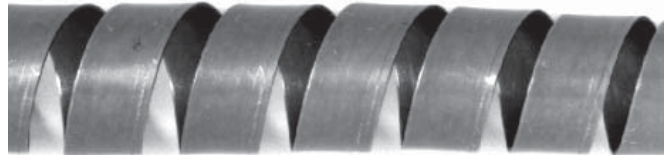
Rubber Hose Guard Selection Guide

Parker Spring Guard and Armor Guard are two products that prolong the life of hose lines that are exposed to rugged operating conditions. They distribute bending radii to avoid kinking in hose lines and protect hose from abrasion and deep cuts. Guards are constructed of steel wire and plated to resist rust.

Spring Guard



Armor Guard



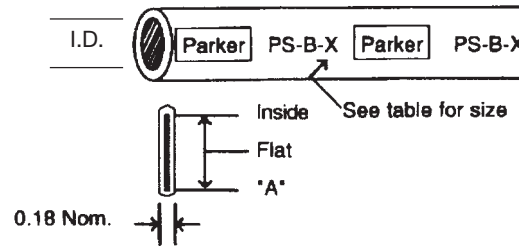
Spring Guard Part Number	Armor Guard Part Number	Inside Dia. (inch)	Hose Style									
			SS25UL 201/261 221FR 206, 225 235, 266	213 285 293	301 301LT 304 341 381	421, 421HT 424, 431 436, 451TC 471, 471ST 481	421WC	601 604	701 77C 772 774	731 78C 782 792	801 804 821 821FR 831, 836	811 881
SG-050	AG-050	0.50							-3			
SG-060	AG-060	0.60	-4	-4	-4	-4		-3	-4			
SG-066	AG-066	0.66				-5				-4		
SG-072	AG-072	0.72	-5	-5	-5	-6		-4	-5			
SG-084	AG-084	0.84	-6	-6	-6			-5	-6			
SG-097	AG-097	0.97	-8	-8	-8	-8	-6	-6	-8	-6	-6	
SG-106	AG-106	1.06	-10	-10	-10	-10	-8	-8	-10	-8	-8	
SG-113	AG-113	1.13				-12	-10	-10				
SG-122	AG-122	1.22	-12	-12	-12				-12		-10	
SG-131	AG-131	1.31					-12	-12				
SG-155	AG-155	1.55	-16	-16	-16	-16				-12	-12	-12
SG-161	AG-161	1.61	-20	-20	-20	-20		-16	-16	-16	-16	
SG-166	AG-166	1.66										-16
SG-182	AG-182	1.82	-24	-24	-24	-24			-20			
SG-209	AG-209	2.09						-20	-24			-20
SG-220+	AG-220+	2.20				-32						-24
SG-232	AG-232	2.32	-32	-32	-32			-24				-24
SG-270+	AG-270+	2.70							-32			-32
SG-292+	AG-292+	2.92	-40	-40	-40	-40		-32				-32
SG-319+	AG-319+	3.19	-48	-48	-48	-48						
SG-369+	AG-369+	3.69										

+ Non-Standard

Note: Spring Guard and Armor Guard are packaged in 10 ft. pieces.

Partek Sleeve Selection Guide

Parker's 'Partek Nylon Protective Sleeving' gives you tough hose abrasion protection two ways. First, per the ISO 6945 specification, Partek has a unique tubular weave nylon construction, strong enough to withstand greater than 800,000 abrasion cycles without wearing through the fabric at any location. Partek / "PS" can withstand greater than 50,000 abrasion cycles. In addition, this weave also gives an exceptionally smooth interior wall, allowing rubber hose to move freely inside the sleeve. This provides easy installation and prevents any internal abrasion problems. Partek sleeving is available in 300 ft. reels**, in either black or yellow, and in sizes to fit most hydraulic hose. Partek, the quick and easy solution to hose protection in high-abrasion areas.
** Limit of 3 pieces per reel.



Partek® Sleeve (Black) Part Number	Partek® Sleeve (Yellow) Part Number	Partek® PS Sleeve (Black) Part Number	Partek® PS Sleeve (Black) Part Number	Hose Style							
				SS25UL 201/261 221FR 206, 225 235, 266	213 285 293	301 301LT 304 341, 381 601, 604	421, 421HT 421WC, 424 431, 436 451TC, 471 471ST, 481	701, 731 77C, 78C 772, 782 774, 792	801 804 821 821FR 831, 836	811 881	
AS-B-11	AS-Y-11	PS-B-12+	1.07	0.69	-4	-4	-3	-3/-4		-4	
			1.18	0.75	-4	-4	-3	-3/-4		-4	
AS-B-13	AS-Y-13	PS-B-13	1.34	0.86	-5/-6	-5/-6	-4/-5	-5/-6	-4	-5/-6	
AS-B-15	AS-Y-15	PS-B-15	1.66	1.06	-8	-8/-10	-6	-8	-6	-8	
AS-B-17	AS-Y-17	PS-B-17	1.92	1.22	-10	-12	-8	-10	-8	-10	
AS-B-19	AS-Y-19		2.12	1.35	-12		-12	-12	-10	-12	
AS-B-22	AS-Y-22	PS-B-22	2.24	1.42	-12		-12	-12	-10	-12	
		PS-B-22	2.24	1.42	-16	-16			-12		-12
AS-B-27	AS-Y-27		2.55	1.63				-16		-16	
AS-B-33	AS-Y-33	PS-B-33	2.85	1.81				-16		-16	
		PS-B-33	2.85	1.81	-20	-20	-16		-16		-16
AS-B-35+	AS-Y-35	PS-B-35	3.43	2.19	-24	-24		-20		-20	
AS-B-37	AS-Y-37	PS-B-37	3.73	2.38			-20	-24	-20		
AS-B-39+	AS-Y-39+	PS-B-39	4.12	2.63	-32	-32	-24		-24		-24
		PS-B-45	4.12	2.88			-32	-32			-32
AS-B-47+	AS-Y-47+	PS-B-47	4.90	3.13	-40	-40			-32		
AS-B-53+	AS-Y-53+		5.30	3.38							-40
AS-B-58	AS-Y-58+		5.69	3.63	-48	-48					-48
AS-B-64		PS-B-80+	7.85	5.00							
		PS-B-88+	8.64	5.50							

+ Non-Standard

Note:

1. The parts shown are related to the hose outside diameter and may not fit over the fitting. For over the fitting applications, a larger size sleeve may be required.
2. Parts marked with an asterisk "*" are non-standard stock items. Contact Parker HPD or your local distributor for prices.
3. Partek "PS" nylon sleeve is available in 50 ft. coils with a maximum of 4 pieces with no length less than 10 ft.
4. Cut lengths are available. Contact Parker HPD or your local distributor for prices.

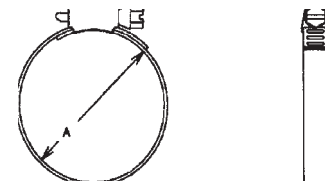
Partek Sleeve



Partek "PS" Sleeve

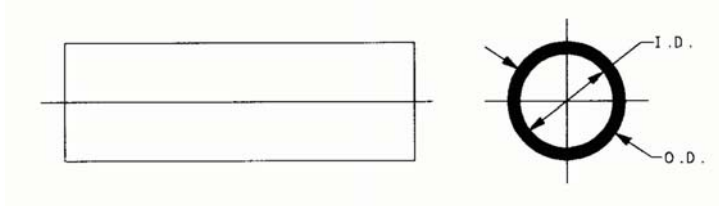


HC Clamps



See Hose Guards - Clamps for part numbers and dimensions.

Firesleeve - Accessory Selection Guide



Firesleeve Table

Firesleeve Dimensional Requirements						
Part Number	Firesleeve I.D. Minimum		Nominal		Firesleeve O.D. Maximum	
	mm	inch	mm	inch	mm	inch
FS-F-10	14,7	0.58	15,5	0.62	24,6	0.97
FS-F-11	16,5	0.65	17,5	0.69	26,1	1.03
FS-F-12	18,0	0.71	19,1	0.75	27,6	1.09
FS-F-14	21,3	0.84	22,3	0.88	30,9	1.22
FS-F-16	24,4	0.96	25,4	1.00	35,0	1.38
FS-F-18	27,4	1.08	28,5	1.12	38,1	1.50
FS-F-20	30,7	1.21	31,8	1.25	40,3	1.59
FS-F-22	34,0	1.34	35,1	1.38	44,4	1.75
FS-F-24	37,1	1.46	38,1	1.50	48,2	1.90
FS-F-28	43,4	1.71	44,5	1.75	52,3	2.06
FS-F-32	49,8	1.96	50,8	2.00	58,9	2.23
FS-F-38	59,4	2.34	60,5	2.38	69,5	2.74
FS-F-40	62,5	2.46	63,5	2.50	70,8	2.79
FS-F-48	75,2	2.96	76,2	3.00	86,3	3.40
FS-F-60	94,2	3.71	95,3	3.75	105,4	4.15

Note: See Page F-11 for Firesleeve assembly instructions.

Parker Firesleeve is a flame resistant sheath that protects the hose from extreme temperature conditions. Firesleeve easily slides over hoses and readily expands over fitting. It can be assembled with Parker FSC or properly sized wormgear clamp.

Construction: Braided fiberglass sleeve and an orange, bonded and seamless silicone rubber cover.

Specifications: Conforms to SAE Aerospace Standard 1072A Type 2A.

Temperature Range: -54°C to +260°C (-65°F to +500°F).

Firesleeve (FS-F)



FSC Clamp



Part Number: FSC
 (One size fits all hoses up to 2 inch O.D.)

PolyGuard™ (HG) and ParKoil™ (PG)



PolyGuard™ (HG)— Heavy-duty polyethylene provides protection in rugged operating conditions. Great for bundling high-pressure hose lines.

Cut edges can be smoothed by applying heat.

CAUTION: This material will support combustion.

Color: Black

Temperature range: 0°F to +200°F



ParKoil™ (PG) — Lower-cost protection for applications that call for a tighter bend radius and are less demanding.

Cut edges can be smoothed by applying heat.

Guard I.D. (in.)	Part Number
0.75	HG-075
1.00	HG-100
1.25	HG-125
1.50	HG-150
2.00	HG-200
3.50	HG-350
0.38	PG-038
0.50	PG-050
0.62	PG-062
0.75	PG-075
0.88	PG-088
1.00	PG-100
1.19	PG-119
1.38	PG-138
1.88	PG-188

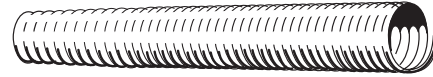
CAUTION: This material will support combustion.

Color: Black

Temperature range: 0°F to +200°F

Special Premade Spring Guards

(Cadmium plated, hard drawn-steel wire)
For Parflex Hose



Guard I.D. (in.)	Std. Length (ft.)	Part No.
.47	5	55SSG-3
.55	5	55SSG-4
.61	5	55SSG-5
.60	5	55SSG-6
.81	5	55SSG-8
1.09	7	55SSG-12

Clear Vinyl Hose Guards

For Parflex Hose

Use Spring Guards for protection from abrasion and extreme physical abuse.



Guard I.D. (in.)	Std. Length (ft.)	Part No.
.44	100	PV97-1
.56	100	PV139-1
.68	100	PV1611-1
.87	50	PV2014-1
1.12	50	PV2418-1
1.25	50	PV2420-1
1.50	50	PV3224-1

Flat Steel Armor Guards

For Parflex Hose



Guard I.D. (in.)	Std. Length (ft.)	Part No.
.47	25	55AG-3
.55	25	55AG-4
.61	25	55AG-5
.67	25	55AG-6
.83	25	55AG-8
1.09	10	55AG-12
1.35	10	55AG-16
1.18	10	58AG-12
1.51	10	58AG-16

Steel Spring Guards

(Hard drawn-steel wire)
For Parflex Hose



Guard I.D. (in.)	Std. Length (ft.)	Part No.
.47	25	55SG-3
.55	25	55SG-4
.61	25	55SG-5
.67	25	55SG-6
.83	25	55SG-8
1.09	10	55SG-12
1.35	10	55SG-16
1.18	10	55SG-12
1.51	10	55SG-16

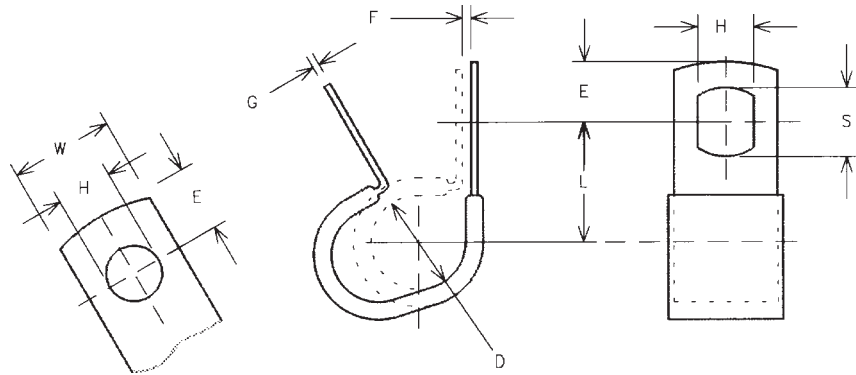
Accessory Selection Guide - CL Clamp

Vinyl coated steel clamps provide hose support where long lengths are used. Provides neater installation of hose lines, minimizes hose chafing and prevents damage to hose.

Material: CR Steel with Zinc Plating

Coating: Black Vinyl Plastisol - 0,8 mm (0.03 inch) thick.

Temperature Range: -40°C to +107°C (-40°F to +225°F).



CL Hose Support Clamp Table

Part Number	D		H		L		W		E		F		G		S	
	±0.80 (mm)	±0.031 (inch)	±0.10 (mm)	±0.005 (inch)	±0.80 (mm)	±0.031 (inch)	±0.25 (mm)	±0.010 (inch)	±0.40 (mm)	±0.015 (inch)	±0.80 (mm)	±0.031 (inch)	±0.10 (mm)	±0.004 (inch)	±0.50 (mm)	±0.020 (inch)
CL-6	7.90	0.312	10.30	0.406	17.45	0.687	19.05	0.750	11.10	0.437	0.80	0.031	0.80	0.032	12.70	0.500
CL-7	9.50	0.375	10.30	0.406	18.25	0.718	19.05	0.750	11.10	0.437	1.55	0.062	0.80	0.032	12.70	0.500
CL-8 +	11.10	0.437	10.30	0.406	19.05	0.750	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-9	12.70	0.500	10.30	0.406	19.85	0.781	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-10 +	14.25	0.562	10.30	0.406	20.60	0.812	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-11	15.90	0.625	10.30	0.406	21.40	0.843	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-12	17.45	0.687	10.30	0.406	22.20	0.875	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-13	19.05	0.750	10.30	0.406	23.00	0.906	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-14	20.60	0.812	10.30	0.406	23.80	0.937	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-15 +	22.20	0.875	10.30	0.406	24.60	0.968	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-16	23.80	0.937	10.30	0.406	25.40	1.000	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-17	25.40	1.000	10.30	0.406	26.20	1.031	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-18 +	26.95	1.062	10.30	0.406	26.95	1.062	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-19	28.60	1.125	10.30	0.406	27.75	1.093	19.05	0.750	11.10	0.437	1.55	0.062	1.20	0.048	12.70	0.500
CL-20 +	30.20	1.188	13.50	0.531	31.75	1.250	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-21	31.75	1.250	13.50	0.531	32.55	1.281	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-22 +	33.30	1.312	13.50	0.531	33.30	1.312	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-23	34.90	1.375	13.50	0.531	34.10	1.343	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-24 +	36.50	1.437	13.50	0.531	34.90	1.375	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-25	38.10	1.500	13.50	0.531	35.70	1.406	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-26 +	39.65	1.562	13.50	0.531	36.50	1.437	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-27 +	41.25	1.625	13.50	0.531	37.30	1.468	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-29	44.45	1.750	13.50	0.531	38.90	1.531	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-31 +	47.65	1.875	13.50	0.531	40.45	1.593	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-33	50.80	2.000	13.50	0.531	42.85	1.687	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-36 +	55.55	2.187	13.50	0.531	46.00	1.812	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-37	57.15	2.250	13.50	0.531	46.00	1.812	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-38 +	58.70	2.312	13.50	0.531	49.20	1.937	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-41 +	63.50	2.500	13.50	0.531	50.80	2.000	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625
CL-43	66.65	2.625	13.50	0.531	58.70	2.312	25.40	1.000	14.25	0.562	1.55	0.062	1.20	0.048	15.90	0.625

+ Non-Standard

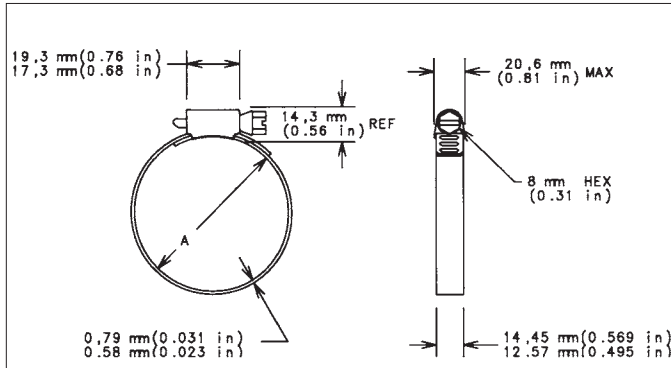
Accessory Selection Guide - HC Clamp

The Parker HC Clamp is a stainless steel worm gear clamp designed for low pressure hose applications.

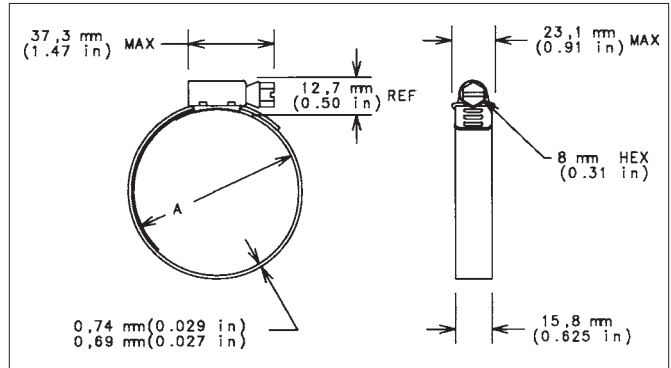
Material: Stainless Steel

Specifications: SAE J1508, Type F and Type HD

Clamp A



Clamp B



HC Hose Clamp Table

Table A

Size (SAE)	"A" Clamp Diameter				Part Number
	Minimum		Maximum		
	(mm)	(inch)	(mm)	(inch)	
-8	12	0.48	25	1.00	HC-6
-10	13	0.50	28	1.12	HC-8
-12	13	0.50	32	1.25	HC-10
-16	19	0.75	38	1.50	88HC-12
-20	19	0.75	44	1.75	88HC-16
-24	25	1.00	51	2.00	88HC-20
-28	33	1.31	57	2.25	88HC-24

Table B

Size (SAE)	"A" Clamp Diameter				Part Number
	Minimum		Maximum		
	(mm)	(inch)	(mm)	(inch)	
-34	44	1.75	67	2.63	88HC-32H +
-42	57	2.25	80	3.13	88HC-40H +
-50	70	2.75	92	3.63	88HC-48H +

+ Non-Standard

Protection Shields (HP, HT, and HP-B)

Prevent hose abrasion while extending your hose life. Parker Hose Protection Shields extend hose life by protecting the hose from abrasion that occurs when hose rubs against other hose, metal or concrete. Parker hose shields are resistant to oil, lubricants, gasoline, most solvents and can withstand ambient temperatures from -40° to +300° F. Easily installed and secured by cable ties without disconnecting any hose lines. Use with hose from 1/4" to 2" I.D.

- ◆ **Eliminate hose abrasion on concrete, metal or any rough surface.**
- ◆ **Guard against hose deterioration on mobile hydraulic equipment.**
- ◆ **Let Parker fill all your hydraulic and pneumatic hose product needs.**

Hose Protector Shields are a fast and extremely cost effective way to isolate fluid lines from direct contact with other lines, components or structural members. They're available in 4-inch, 6-inch and 8-inch lengths and the width can be trimmed to satisfy a variety of situations.

These flexible protectors simply clamp around the hose and are securely held in place by nylon cable ties which are included. The cable ties are recessed in molded grooves to protect them from abrasion. **You don't need to disconnect a line to install a Parker Hose Protector Shield the way you do with a continuous tubular sleeve. Just wait until the installation is up and running to see exactly where contact needs to be prevented.**

Parker Hose Protector Shields are available in bulk quantities and in convenient assortments in 4", 6" and 8" sizes.. Cable ties are included with all protectors and are also available in bulk.

Hose Shields

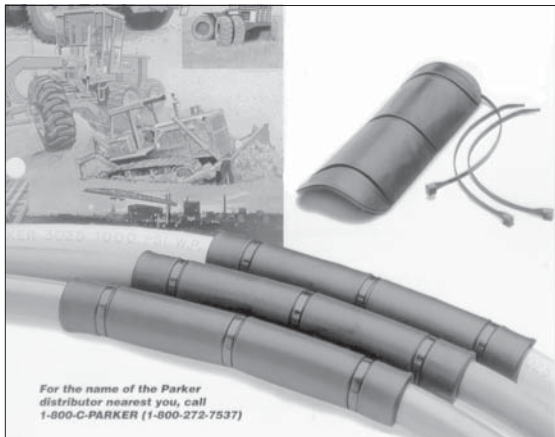
HP-B-13X18-KIT	2 ea. HP-13 RFL
	2 ea. HP-15 RFL
	4 ea. HP-18 RFL

20 Hose Protectors and 60 Tie Wraps for each size are in point of purchase display box.

HP-B-13-RFL	10 ea. HP-B-13 Hose Protectors (4").
	30 ea. HP-12 Tie Wraps in a sealed plastic bag.
HP-B-15-RFL	10 ea. HP-B-15 Hose Protectors (6").
	30 ea. HP-16 Tie Wraps in a sealed plastic bag.
HP-B-18-RFL	5 ea. HP-B-18 Hose Protectors (8").
	15 ea. HP-22 Tie Wraps in a sealed plastic bag.

Tie Wraps

HT-12-KIT	30 ea. HT-12 Tie Wraps
HT-16-KIT	30 ea. HT-16 Tie Wraps
HT-22-KIT	15 ea. HT-22 Tie Wraps



Contact your authorized Parker Fleet Products Distributor for pricing and delivery information.

Note: Parker Hose Protector Shield products are intended to prevent damage. They are not suitable as patches or repairs for lines which are already damaged or worn beyond safe use standards.

HPD Hose Assembly Workstations



Hose Products Division knows what you need —
and WE'RE STATIONED TO DELIVER!

Parker Hose Assembly Workstations has five different components offering the best possible setup for hose assembly fabrication. These Workstations are ideal for plant hose assembly production sites and over-the-counter business locations.

Parker Workstations are designed to rigid quality specifications with features that service your needs...



The complete on-site complete hose assembly workstation design (above) includes:

- TH7-5-C — 6' table with 1 hose reel and 1 bottom shelf
- TH7-6 — 16 hose reel system with rotating base
- (2) 40B-Cabinets
- TH7-7 — 15" wide table set up for 239 or 339 Cut-Off Saw
- TH7-6-C — Optional overhead crane

Specifications: HoseFab Table (heavy duty)

- Laminated wood table top
- 1-1/2" square tubing structure
- Gussetted corner braces
- 6-leg design
- All legs have adjustable feet
- Hose reel/shelf combinations
- 40B-Cabinet or 72B-Cabinet for fitting storage
- *Optional: Hose trough for measurement of hose*
 - Calibrated to line up to Saw Table
 - Adjustable stop for standard length cuts
 - Built-in tape measure

Specifications: Rotary Reel Rack

- (16) Hose reel capacity
- Compact design
- Rotates for 1 man use
- Center post bolts to floor in 4 places
- *Optional: Overhead crane*

Specifications: Saw Table

- Calibrated to line up to Hose trough
- Adjustable feet
- Mounts to 6-foot bench

Specifications: 3/4 Reel Rack

- Free standing 3 reel rack
- Bolts to floor
- *Optional: 4th reel capacity with wall mounts*



Pictured left is a complete on-site hose assembly workstation, the Parker Kart:

The **Parker Kart, TH7-4**, is a portable all-in-one unit designed to hold a Karrykrimp, Karrykrimp 2, or Parkrimp 1; a 239 or 339 Cut-off Saw with a foot control mechanism; 4 reels of hose; and has a 40 bin cabinet with 3 drawers for tools. *The TH7-4 can be customized to fit your specific hose assembly needs. Contact Parker HPD or your Parker Hose distributor for details.*

Note: Part number TH7-4 does not include hose, fittings or equipment.

Note: Part number and specifications of components for both workstations are listed on the following pages.

HoseFab Table

Heavy duty constructed table for mounting Karrykrimp, Karrykrimp 2, or Parkrimp 1. HoseFab Table is available in 3 versions to meet your requirements. Options include two 40B-Cabinets or 72B-Cabinets for fitting storage.

Part Number	Description
TH7-5-R	6' table with 2 hose reels
TH7-5-S	6' table with 2 bottom shelves
TH7-5-C	6' table with 1 hose reel and 1 bottom shelf
TH7-5-HT	Optional 6' measured hose trough with adjustable hose stop
40B-Cabinet	40 openings - 4-1/2" x 4-1/2" x 12" in size
72B-Cabinet	72 openings - 4-1/2" x 4-1/2" x 12" in size

Table measurements are: Height - 31-3/4"
 Width - 29"
 Length - 72"



Rotary Reel Rack

16 Hose reel capacity that fits in a compact area. Supplied with heavy duty casters which allow for ease of turning, even when fully loaded. Optional overhead crane available.

Part Number	Description
TH7-6	16 hose reel system, with rotating base
TH7-6-C	Optional overhead crane

Rack measurements are: Height - 104" (120" with optional overhead crane)
 Width - 67"
 Length - 67"



Saw Table

The Saw Table, specially designed for Parker 239 or 339 Hose Cut-Off Saw, attaches directly to the HoseFab Table. The Hose Guide lines up the hose to the saw blade for accurate cutting.

Part Number	Description
TH7-7	15" wide table set up for Parker 239 or 339 Cut-Off Saw

Table measurements are: Height - 18"
 Width - 28"
 Length - 14"



3/4 Reel Rack

Compact in its design, the standard version will hold 3 reels of hose. Optional 4th reel capacity designed with wall anchor mounts.

Part Number	Description
TH7-8	Upright 3 hose reel rack
TH7-8-F	Optional extension with wall anchor for 4th reel

Rack measurements are: Height - 59" (82-1/2" with 4th reel option)
 Width - 27-3/4"
 Length - 27-1/2"



Parker Kart**TH7-4**

Parker Kart organizes and stores all your necessary Parker hoses, fittings, power and hand tools. Everything you need to make fast hose assemblies on site. As a valued addition to any facility, Parker Kart will save on downtime and labor costs, as well as eliminate errors in cutting and fitting attachment. With Parker Kart, you'll always have the materials you need, right when and where you need them.

- Easy one-man movement
- Eight-inch urethane casters with brakes
- Forklift carry tubes
- Electric receptacle with cord
- Fitting bins and drawers
- Large tool drawer
- Four hose reel holders
- Choice of Parker crimping equipment
- Optional accessories available

Parker Kart can be customized to fit specific hose assembly needs. Parker Kart does not include hose, fittings or equipment.

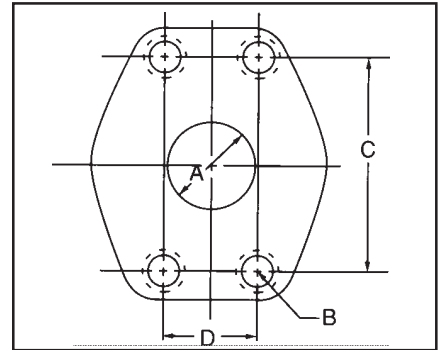


SAE J518 port dimensions for 4-Bolt Split Flanges

There are two non-interchangeable SAE split flanges:

- a. Standard or Code 61 is for 3,000psi to 5,000psi maximum, depending on size.
- b. High Pressure or Code 62 is for 6,000psi maximum, regardless of size. The flange head is "V" notched for identification.

Consult these tables to determine flange halves and flange kits specifications.



Standard Pressure (Code 61)

Nominal Flange	Flange Dash Size	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm		±0.010	±0.025	±0.010	±0.025	PSI	Mpa
1/2	-8	0.50	13	5/16x18	1.500	38.1	0.688	17.5	5,000	34.5
3/4	-12	0.75	19	3/8x16	1.875	47.6	0.875	22.2	5,000	34.5
1	-16	1.00	25	3/8x16	2.062	52.4	1.031	26.2	5,000	34.5
1-1/4	-20	1.25	32	7/16x14	2.312	58.7	1.188	30.2	4000*	27.6
1-1/2	-24	1.50	38	1/2x13	2.750	69.9	1.406	35.7	3000*	20.7
2	-32	2.00	51	1/2x13	3.062	77.8	1.688	42.9	3000*	20.7

*5000psi with 4A, 4F and 4N Fittings and 50H Flange Halves.

High Pressure (Code 62)

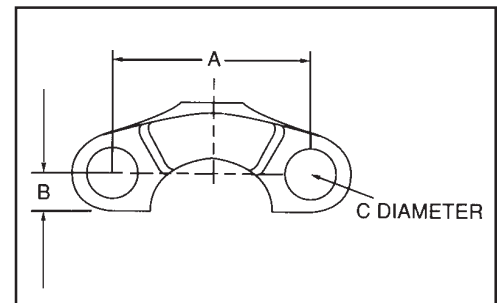
Nominal Flange	Flange Dash Size	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm		±0.010	±0.025	±0.010	±0.025	PSI	Mpa
1	-16	1.00	25	7/16x14	2.250	57.2	1.093	27.8	6,000	41.4
1-1/4	-20	1.25	32	1/2x13	2.625	66.7	1.250	31.8	6,000	41.4
1-1/2	-24	1.50	38	5/8x11	3.125	79.4	1.437	36.5	6,000	41.4
2	-32	2.00	51	3/4x10	3.812	96.8	1.750	44.5	6000	41.4

50H 5000 psi Flange Half (Code 61)

SAE Flange Size	A	B	C	Maximum Working Pressure (PSI)	Part Number
1-1/4	2.31	0.59	0.47	5000	50H-20
1-1/2	2.75	0.70	0.53	5000	50H-24
2	3.06	0.84	0.53	5000	50H-32

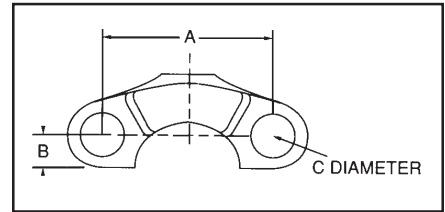
For use with 4A, 4F and 4N flanges.

+ Non-Standard



51H SAE Flange Half (Code 61)

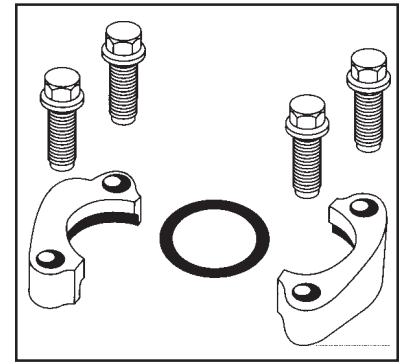
SAE Flange Size	Maximum Working Pressure (PSI)	A	B	C	Part No.
1/2	5,000	1.50	0.34	0.34	51H-8
3/4	5,000	1.88	0.44	0.41	51H-12
1	5,000	2.06	0.52	0.41	51H-16
1-1/4	4,000	2.31	0.59	0.47	51H-20
1-1/2	3,000	2.75	0.70	0.53	51H-24
2	3,000	3.06	0.84	0.53	51H-32
2-1/2	2,500	3.50	0.96	0.53	51H-40



5050HK 5000 psi Flange Kit (Code 61)

For use with 4A, 4F and 4N Flanges.

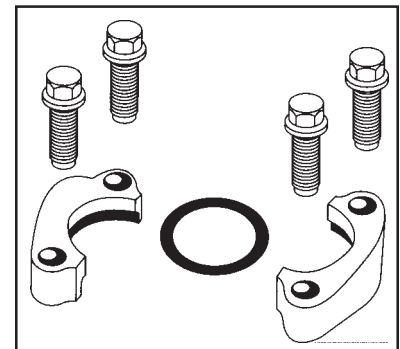
SAE Flange Size	Maximum Working Pressure (PSI)	Flange Half	O-Ring	4 Bolts Grade 8	Kit Part Number
1-1/4	5000	50H-20	711510-3	7/16-14 X 1-1/2	5050HK-20
1-1/2	5000	50H-24	711510-2	1/2-13 X 1-1/2	5050HK-24
2	5000	50H-32	711510-1	1/2-13 X 1-1/2	5050HK-32



5151HK SAE Flange Kit (Code 61)

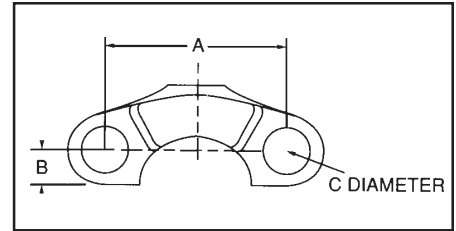
SAE Flange Size	Working Pressure (PSI)	Flange Half (2)	O-Ring	4 Bolts Grade 5	4 Lock-washers	Kit Part No.
1/2	5,000	51H-8	711510-6	5/16-18x1/4	5/16	5151H-8
3/4	5,000	51H-12	711510-5	3/8-16x1/4	3/8	5151HK-12
1	5,000	51H-16	711510-4	3/8-16x1/4	3/8	5151HK-16
1-1/4	4,000	51H-20	711510-3	7/16-14x1/4	7/16	5151HK-20
1-1/2	3,000	51H-24	711510-2	1/2-13x1/2	1/2	5151HK-24
2	3,000	51H-32	711510-1	1/2-13x1/2	1/2	5151HK-32

Note: High pressure applications also require the use of Code 61 Flange End hose fittings.



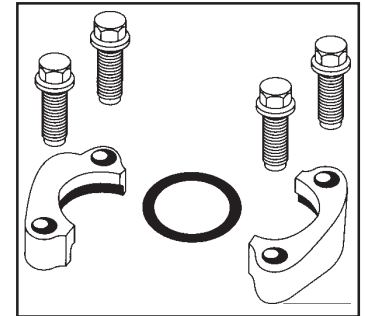
HFH SAE Flange Half (Code 62)

SAE Flange Size	Maximum Working Pressure (PSI)	A	B	C	Part No.
3/4	6,000	2.00	0.43	0.41	HFH-12
1	6,000	2.63	0.50	0.47	HFH-16
1-1/4	6,000	2.60	0.59	0.53	HFH-20
1-1/2	6,000	3.12	0.68	0.66	HFH-24
2	6,000	3.81	0.84	0.78	HFH-32



HFHFHK SAE Flange Kit (Code 62)

SAE Flange Size	Maximum Working Pressure (PSI)	Flange Half (2)	O-Ring	4 Bolts Grade 5	4 Lock-washer	Kit Part No.
3/4	6,000	HFH-12	711510-5	3/8-16x1 1/2	3/8	HFHFHK-12
1	6,000	HFH-16	711510-4	7/16-14x1 3/4	7/16	HFHFHK-16
1 1/4	6,000	HFH-20	711510-3	1/2-13x1 3/4	1/2	HFHFHK-20
1 1/2	6,000	HFH-24	711510-2	5/8-11x2 1/4	5/8	HFHFHK-24
2	6,000	HFH-32	711510-1	3/4-10x2 3/4	3/4	HFHFHK-32



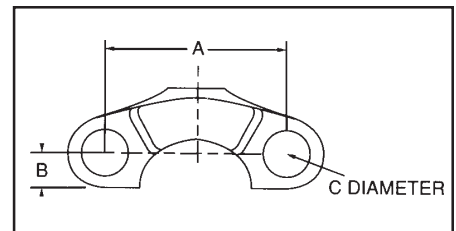
DIN and ISO Metric Ports

DIN (German) and ISO (International Organization for Standardization) flange heads are the same as SAE flange heads. By comparison, the ports have the same configuration except that the DIN and ISO Type I ports accept metric bolts. This requires special flange halves in most sizes. Some sizes can use the SAE flange halves.

SAE J518	DIN 20078	ISO 6162 Type I
Code 61	Form R	2,5 to 35 Mpa Series
Code 62	Form S	40 Mpa Series

M2H DIN (ISO) Flange Half (Code 62)

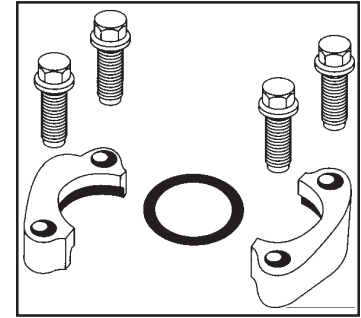
DIN Flange Size	ISO Flange Size	A	B	C	Max. Working Pressure (PSI)	Part Number
		mm	mm	mm		
8	13	41	8	9	6000	HFH-8
12	19	51	11	11	6000	M2H-12
16	25	57	13	13.5	6000	M2H-16
20	32	67	15	13.5	6000	HGH-20
24	38	79	17	17.5	6000	M2H-24
32	51	97	21	22	6000	M2H-32



Note: High pressure applications also require the use of Code 62 Flange End hose fittings.

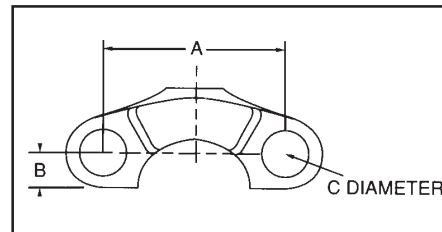
M2M2HK DIN (ISO) Flange Kit (Code 62)

DIN Flange Size	ISO Flange Size	Maximum Working Pressure (PSI)	Flange Halves (2)	O-Ring	Bolts (4)		Lock Washers (4)	Part Number
					Thread	Length		
8	13	6,000	HFH-8	711510-6	M8x1.25	30	8	M2M2HK-8
12	19	6,000	M2H-12	711510-5	M10x1.50	35	10	M2M2HK-12
16	25	6,000	M2H-16	711510-4	M12x1.75	45	12	M2M2HK-16
20	32	6,000	HFH-20	711510-3	M12x1.75	45	12	M2M2HK-20
24	38	6,000	M2H-24	711510-2	M16x2.0	55	16	M2M2HK-24
32	51	6,000	M2H-32	711510-1	M20x2.5	70	20	M2M2HK-32



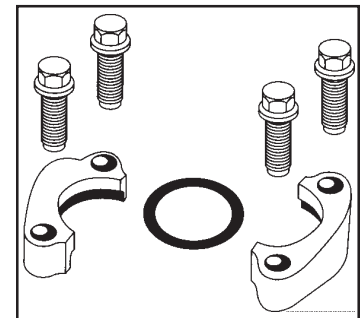
M1H DIN (ISO) Flange Half (Code 61)

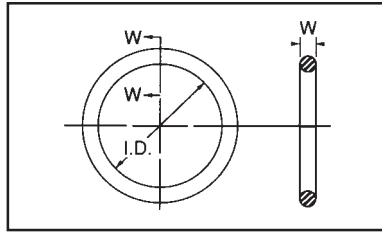
DIN Flange Size	ISO Flange Size	A	B	C	Max. Working Pressure (PSI)	Part Number
		mm	mm	mm		
8	13	38	8	9	5,000	51H-8
12	19	48	10	11	5,000	M1H-12
16	25	52	12	11	5,000	M1H-16
20	32	59	14	11	4,000	M1H-20
24	38	70	17	13.5	3,000	51H-24
32	51	78	21	13.5	3,000	51H-32



M1M1HK DIN (ISO) Flange Kit (Code 61)

DIN Flange Size	ISO Flange Size	Maximum Working Pressure (PSI)	Flange Halves (2)	O-Ring	Bolts (4)		Lock Washers (4)	Part Number
					Thread	Length		
8	13	5,000	51H-8	711510-6	M8x1.25	25	8	M1M1HK-8
12	19	5,000	M1H-12	711510-5	M10x1.50	30	10	M1M1HK-12
16	25	5,000	M1H-16	711510-4	M10x1.50	30	10	M1M1HK-16
20	32	4,000	M1H-20	711510-3	M10x1.50	30	10	M1M1HK-20
24	38	3,000	51H-24	711510-2	M12x1.75	35	12	M1M1HK-24
32	51	3,000	51H-32	711510-1	M12x1.75	35	12	M1M1HK-32





**O-Rings - SAE Thread
 (Compound N552-90)***

SAE Thread Size	I.D.	W	Part No.
7/16-20 (-4)	.351+.005	.072+.003	711509-1
1/2-20 (-5)	.414+.005	.072+.003	711509-2
9/16-20 (-6)	.468+.005	.078+.003	711509-3
3/4-16 (-8)	.644+.005	.087+.003	711509-4
7/8-14 (-10)	.755+.005	.097+.003	711509-5
1 1/16-12 (-12)	.924+.005	.116+.004	711509-6
1 5/16-12 (-16)	1.171+.005	.116+.004	711509-7
1 5/8-12 (-20)	1.475+.005	.118+.004	711509-8
1 7/8-12 (-24)	1.720+.005	.118+.004	711509-9
2 1/2-12 (-32)	2.337+.005	.118+.004	711509-10

**O-Rings - Code 61 and Code 62
 Flanges (Compound N552-90)***

Flange Size	I.D.	W	Part No.
1/2 (-8)	.734	.139	711510-6
3/4 (-12)	.984	.139	711510-5
1 (-16)	1.296	.139	711510-4
1 1/4 (-20)	1.484	.139	711510-3
1 1/2 (-24)	1.859	.139	711510-2
2 (-32)	2.234	.139	711510-1

***Note:** For use with petroleum base fluids, other compounds available for Phosphate Ester fluids. Please contact the Parker Hannifin Seal Group/O-Ring Division (1-800-C-PARKER) for additional information.

**O-Rings for CA, CE, CF
 Metric Swivels**

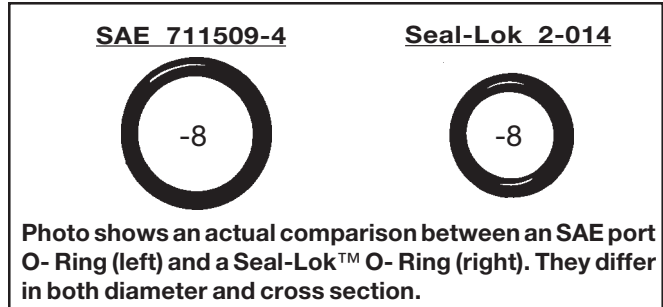
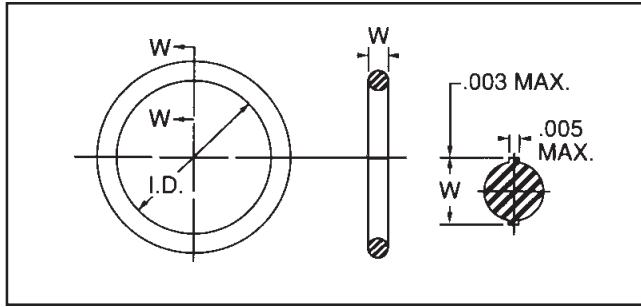
W mm	I.D. mm	Part Number
1.5	6	C9RG-8
1.5	7.5	C9RG-10
1.5	9	C9RG-12
2	12	CARG-15
2	15	CARG-18
2	20	CARG-22

**O-Rings for C9, OC, 1C
 Metric Swivels**

W mm	I.D. mm	Part Number
1.5	6	C9RG-8
1.5	7.5	C9RG-10
1.5	9	C9RG-12
2	12	C9RG-14
2.4	16.3	C9RG-20
2.4	20.3	C9RG-25

**Flange "D" Rings -
 Caterpillar®
 Style Flanges**

Flange Size	Dash Size	W	I.D.	Part Number
		mm	mm	
3/4	-12	0.200	1.00	XARG-12
1	-16	0.200	1.25	XARG-16
1-1/4	-20	0.200	1.50	XARG-20
1-1/2	-24	0.200	1.75	XARG-24



O-Rings - SAE Straight Thread

Tube Dash Size	Tube O.D. (in.)	SAE Thread	D (mm)	D (in.)	W (mm)	W (in.)	SAE O-Ring Part Number
-4	1/4	7/16x20	9	0.35	1	0.03	711509-1
-6	3/8	9/16x20	12	0.47	2	0.08	711509-3
-8	1/2	3/4x16	16	0.64	2	0.09	711509-4
-10	5/8	7/8x14	19	0.76	2	0.1	711509-5
-12	3/4	1-1/16x12	23	0.92	3	0.12	711509-6
-16	1	1-5/16x12	30	1.17	3	0.12	711509-7
-20	1x1/4	1-5/8x12	37	1.48	3	0.12	711509-8
-24	1x1/2	1-7/8x12	44	1.720	3	0.12	711509-9

O-Rings - Seal-Lok™

Tube Dash Size	Tube O.D. (in.)	ORFS Thread	D (mm)	D (in.)	W (mm)	W (in.)	ORFS O-Ring Part Number
-4	1/4	9/16x18	8	0.301	2	0.070	2-011N552-90
-6	3/8	11/16x16	9	0.364	2	0.070	2-012N552-90
-8	1/2	13/16x16	12	0.489	2	0.070	2-014N552-90
-10	5/8	14-Jan	16	0.614	2	0.070	2-016N552-90
-12	3/4	1-3/16x12	19	0.739	2	0.070	2-018N552-90
-16	1	1-7/16x12	24	0.926	2	0.070	2-021N552-90
-20	1x1/4	1-11/16x12	30	1.176	2	0.070	2-025N552-90
-24	1x1/2	2x12	38	1.489	2	0.070	2-029N552-90

Note: O-Rings for use in Seal-Lok™ connections are illustrated in actual size. Part numbers for O-Rings used in Seal-Lok™ and in SAE port connections are also listed in the table. O-Rings are supplied in Nitrile NBR compound, 90 durometer hardness.

O-Rings

For Tube O-Ring Fittings

Part Number	Tube O.D. (in.)	Tube Dash Size	Parker Seal Number
771513-1	-6	3/8	2-011
771513-2	-8	1/2	2-013
771513-3	-10	5/8	2-013
771513-4	-12	3/4	2-017

For Compression Fittings (1T126)

Part Number	Tube O.D. (in.)	Tube Dash Size	Parker Seal Number
771513-5	-6	3/8	2-012
771513-6	-8	1/2	2-014
771513-7	-10	5/8	2-016
771513-8	-12	3/4	2-018

For Special Compressor Fittings

Part Number	Size	Thread Size	Parker Seal Number
771513-3	-12	1x1/4	2-015

Note: The above O-rings have Nitrile compound number N1173-70.

Note: O-Rings listed are for use with petroleum base fluids. Other compounds are available for Phosphate Ester fluids by special order. For Viton® or other O-Ring compounds, consult Parker Hannifin, Seal/O-Rings Products Division (1-800-C-PARKER).

Caps

For R134a Charge Ports

Part Number	Fitting Size and Shape	Port Type
940199	-6 & -8 Straight	High Flow High Side
940200	-10 & -12 Straight	High Flow Low Side
940188	-6 & -8 Elbows	Standard Flow High Side
940189	-10 & -12 Elbows	Standard Flow Low Side

For R12 Charge Ports

Part Number	Thread
940249	7/16x20

Controlled Pressure Blow Guns

Features

Parker Controlled Pressure Blow Guns meet OSHA requirements (Section 29 CFR 1910.242 paragraph b), and directive #100-1. "Compressed air shall not be used for cleaning purposes except where reduced to less than 30 psi, and then only with effective chip guarding and personal protective equipment." Parker Controlled Pressure Blow Guns have a black epoxy coated aluminum body and vented nozzles to prevent pressure build-up when dead ending occurs up to 150 psi.

410-S

Parker Controlled Pressure Blow Guns features thumb lever valve actuator and brass nozzle. Inlet port is 1/4" NPT.



415-S

Parker Controlled Pressure Blow Guns features push button valve actuator and brass nozzle. Inlet port is 1/4" NPT.



410-SV

Parker Venturi Nozzle Controlled Pressure Blow gun with thumb lever valve and large venturi side ports for high volume flow. Inlet port is 1/4" NPT.



Free Flow @ 100 PSI (CFM)	Static Pressure at Nozzle (Dead Ended @ 150 PSI)	Maximum Pressure	Part No.
21	20	150 PSI	410-S
21	20	150 PSI	415-S
24	5	150 PSI	410-SV

Full Pressure Blow Guns

The following Parker Blow Guns must have a pressure regulator setting below 30 psi to conform to OSHA safety requirements 29 CFR 1910.242 Paragraph b.

410-N

Parker thumb lever style Blow Gun features an aluminum body, extended nozzle, and 1/4" NPT female inlet.



415-N

Parker Blow Gun features a push button style actuator, aluminum body, and 1/4" NPT female inlet.



410

Parker two way thumb lever valve has an aluminum body with 1/4" NPT inlet and 1/8" NPT outlet.



Note: Standard Gun without nozzle.

Free Flow @ 100 PSI (CFM)	Static Pressure at Nozzle (Dead Ended @ 150 PSI)	Maximum Pressure	Part No.
15	N/A	150 PSI	410-N
15	N/A	150 PSI	415-N
30	N/A	150 PSI	410

Display Cabinet

35B

Compact, expandable, point of purchase display, suitable for production or maintenance inventory. (35BCL includes legs.)

Features:

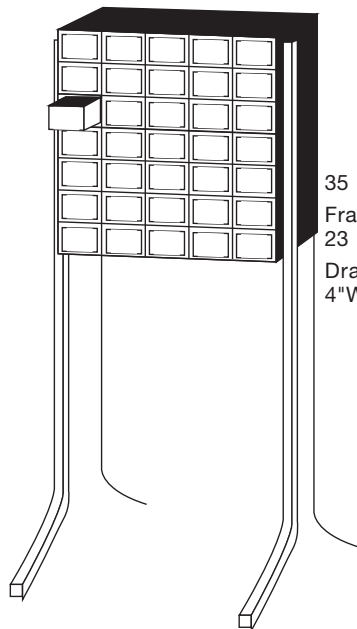
- 35 drawers/70 dividers - expandable to 105 compartments.
- Suitable for display on table, counter or bin cabinet legs.
- Clear styrene drawers for easy identification.
- Threaded mounting holes in cabinet for addition of legs.

Cabinet Features:

1. Chip-proof, baked enamel, black finish.
2. Heavy-duty welded steel cabinet frames.
3. Full width steel shelf supports each drawer.
4. Steel center posts provide extra strength and support each shelf.
5. Keyhole slots in back of frame for easy wall-mounting.
6. Built-in nesting feet for safe stacking.

Drawer Features:

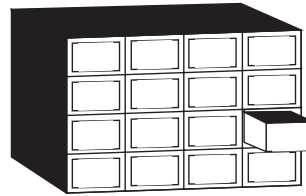
1. Strong, hi-impact polystyrene drawers.
2. Transparent windows to view the inventory.
3. Drawers are easily partitioned with furnished dividers (2 per drawer).
4. Stop-tab at rear of drawer prevents spills when drawer is fully opened.
5. Finger-grip drawer fronts for easy opening.
6. All drawer sizes will accommodate Parker Brass Bin Labels.



35 Drawers
Frame:
23 1/2"W x 21"H x 9 3/4"D
Drawer:
4"W x 2 1/4"H x 9 3/4"D

Combination Fitting & Small Valve Cabinet

16B

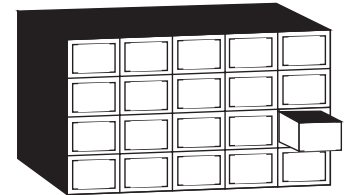


16 Drawers
Frame:
17"W x 11"H x 11"D
Drawer:
4 3/16"W x 2 1/4"H x 11"D

Stock Cabinet

20B

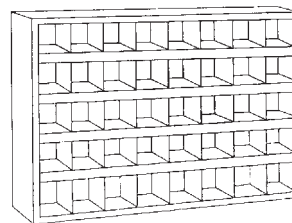
20 Drawers
Frame:
17"W x 11"H x 11"D
Drawer:
3 5/16"W x 2 1/4"H x 11"D



Hose Stock Bins

40B

36" wide, 24" high, 12" thick, with 40 openings each 4-1/2" X 4-1/2" X 12", heavy duty steel, all welded construction. Product bin labels are available.



Fitting Stock Bins

72B

Model 72B — Same as above, except 42" high, with 72 openings.

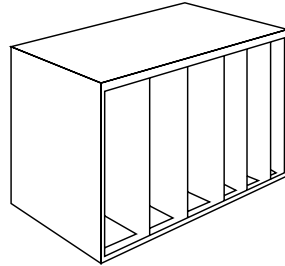
Hose Stock Bins

HR6

Rugged metal cabinet for stocking coils of Parker hose 36" wide, 28" high, 20", with upright separators to provide 6 compartments varying in width from 4" to 8".

Provides suitable base on which to place the fittings stock bin (top measures 36" X 20", bottom of fittings bin measures 36" X 12".)

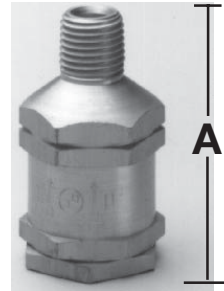
Yellow with black "Parker Hose" lettering.



Swing-Check Valve

Parker Swing-Check Valve - Stops the Flow of Liquids and Gases

Swing-Check is a low cost in-the-line check valve designed especially for DIESEL AND GASOLINE ENGINE FUEL LINES...It also is for externally-mounted OIL FILTERS and COOLERS as well as TRANSMISSION FLUID LUBRICATION LINES. It works in most AIR, GAS, or LIQUID SYSTEMS. Use it wherever fluids must be retained upstream.



Thread Size NPTF	Dash Size	Hex	A		Material	Part Number
			in	mm		
1/4x18	-4	1-1/16	2.060	52	Nitrile	2600
3/8x18	-6	1-1/16	2.120	54	Viton	2625
3/8x18	-6	1-1/16	2.120	54	Nitrile	2650
1/4x18	-4	1-1/16	2.060	52	Viton	2676

HOW IT WORKS...

- Install the Parker Swing-Check Valve in the hose line downstream from the fuel injector to assure instant starting.
- Especially designed seal assures continued no-leak operation.
- The Parker Swing-Check Valve is a spring-loaded "trap door" type of valve. The valve cup opens when system pressure approaches 1/2 psi and permits full system flow with low pressure drop. As system pressure is relieved, the valve cup snaps closed, automatically retaining all fluids upstream.

APPLICATIONS...

When the valve is used in diesel engine fuel injection systems between the fuel tank and fuel filter, it keeps high performance internal components bathed in oil-lubricant and retains fuel in the chamber so that the engine is always primed, no matter how long it has remained idle. It also is used to stop oil back flow on externally mounted oil filters, an/or coolers, and on passenger buses in transmission fluid lines for automatic lubrication.

PERFORMANCE TEST RESULTS...

- 100% leak tested @ 1psi and 35psi.
- Static test with Helium: 1800psi before leak.
- Static burst with oil: 2600psi.
- Maximum leakage: 5cc/24 hour @ 28" head.
- Temperature range: -40°F (-40°C) to +200°F (+93°C) — +400°F with Viton Seal.
- Maximum cracking pressure: 1/2psi

Notes:

- Full Flow Pressure Drop information available at the Parker Hose Products Division, Technical Services Department.
- For special Parker Swing-Check Valve applications or materials, contact the Parker Hose Products Division.

Air Filter

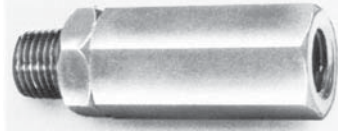
150M

Description

The Parker Air Line Filter is an extremely effective accessory that protects air equipment from rust, pipe scale, dirt, and reduces down time, prevents expensive repairs and prolongs tool life. The nominal 40 Micron sintered metal element is easily replaced. Or it can be simply cleaned by reversing flow (back flushing).

Available with 1/4" female NPT inlet and 1/4" male NPT outlet.

150M filter can also be used for effective filtration of other compatible fluids.



Specifications

FILTRATION
40 Micron (.00016") nominal.
Effective area: 1 Sq. in.

PRESSURE RATING

Working Pressure: 1000 psi
Proof Pressure: 2000 psi
Burst Pressure: 6000 psi

O-Ring Assembly Tool

CORG

Fitting Size	O-Ring Size	Part No.
-4	2-011	CORG-4
-6	2-012	CORG-6
-8	2-014	CORG-8
-10	2-016	CORG-10
-12	2-018	CORG-12
-16	2-021	CORG-16
-20	2-025	CORG-20
-24	2-029	CORG-24
-32	2-135	CORG-32



Teflon* Tape

Teflon Tape

*Dupont registered trademark. For use with male pipe threads.



O-Ring Installation Kit

890033

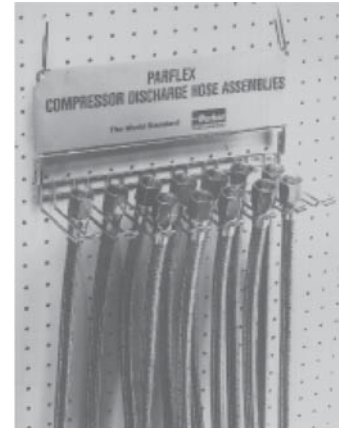


Compressor Discharge Hose Assemblies

Display your products in new compressor discharge hose assembly racks.

These attractive display racks are ideal for walk in display areas. The sturdy heavy gauge plated wire racks will hold up to 21 discharge hoses.

Following are the factory made Teflon Compressor Discharge Hose Assemblies that are available today for use with the Compressor Discharge Hose Assembly Rack.



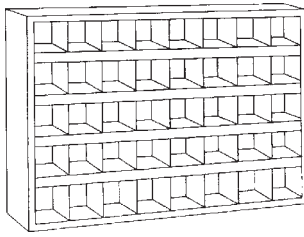
Length (in.)	End Fitting Styles	Part No.
18"	Female SAE(JIC) Swivels	926018HA
24"	Female SAE(JIC) Swivels	926024HA
36"	Female SAE(JIC) Swivels	926036HA
48"	Female SAE(JIC) Swivels	926048HA
52"	Female SAE(JIC) Swivels	926052HA
54"	Female SAE(JIC) Swivels	926054HA
72"	Female SAE(JIC) Swivels	926072HA
84"	Female SAE(JIC) Swivels	926084HA

Length (in.)	End Fitting Styles	Part No.
18"	Female SAE(JIC) Swivel/Straight Tube	927018HA
24"	Female SAE(JIC) Swivel/Straight Tube	927024HA
36"	Female SAE(JIC) Swivel/Straight Tube	927036HA
48"	Female SAE(JIC) Swivel/Straight Tube	927048HA
52"	Female SAE(JIC) Swivel/Straight Tube	927052HA
54"	Female SAE(JIC) Swivel/Straight Tube	927054HA
72"	Female SAE(JIC) Swivel/Straight Tube	927072HA

Length (in.)	End Fitting Styles	Part No.
18"	Straight Tubes	928018HA
24"	Straight Tubes	928024HA
36"	Straight Tubes	928036HA
18"	Straight Tube/SAE Compression	929018HA
24"	Straight Tube/SAE Compression	929024HA
30"	Straight Tube/SAE Compression	929030HA
36"	Straight Tube/SAE Compression	929036HA
38"	Straight Tube/SAE Compression	929038HA

Velvac Teflon Compressor Discharge Hose Assembly interchange information is provided on page O7.

Brass Assortments



Parker Fleet Products is pleased to announce four (4) new brass bin assortments. Just order one of the following part numbers and receive a prepackaged bin containing the most popular items in Flare, NTA and Pipe product offerings: 40B Cabinet - FLR, 40B Cabinet - NTA, 40B Cabinet - Pipe, 40B Cabinet - PMT. The appropriate Bin Labels are also included in each assortment. The 40 Compartments will allow you to organize and control your inventory needs. Each assortment has been designed to provide your customers with maximum capabilities to solve their plumbing requirements for a minimum investment. Parts are easy to identify and retrieve, and the heavy-duty steel cabinet provides years of dependable service. For specific information, the contents of each assortment are provided below.

40B Cabinet - NTA®

Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
60NTA-4	20	61NTA-6	10	62NTA-8	4	VS269NTA-4-2	5	63NTA-6	20
60NTA-6	20	61NTA-8	5	VS68NTA-4-2	10	VS269NTA-6-4	5	63NTA-8	20
60NTA-8	20	62NTA-4	5	VS68NTA-6-4	10	VS269NTA-8-6	5	DCR601-4	5
61NTA-4	10	62NTA-6	10	VS68NTA-8-6	5	63NTA-4	20	LV91-4-060	2

40B Cabinet - FLR

Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
42F-4	5	46F-4-4	5	48F-4-6	5	48F-8-8	3	149F-8-8	2
42F-5	5	46F-6-4	5	48F-6-2	5	48F-10-8	2	150F-4-2	3
42F-6	5	46F-6-6	5	48F-6-4	5	149F-4-2	5	150F-4-4	3
42F-8	3	46F-8-6	3	48F-6-6	5	149F-4-4	5	150F-6-4	3
42F-6-4	3	46F-8-8	2	48F-6-8	3	149F-6-4	5	150F-8-6	3
42F-8-6	3	48F-4-2	5	48F-8-4	3	149F-6-6	5		
46F-4-2	5	48F-4-4	5	48F-8-6	3	149F-8-6	3		

40B Cabinet - Pipe

Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
218P-2	10	209P-8-4	5	215PN-4	5	2202P-2-2	5	2203P-4	5
218P-4	10	207P-2	5	216P-2	5	2202P-4-4	5	2225P-2	3
218P-6	10	207P-4	5	216P-4	5	2202P-6-6	5	2225P-4	3
209P-4-2	10	207P-6	5	215PNL-2-15	5	2214P-2-2	5	2224P-2	3
209P-6-2	10	208P-4-2	5	215PNL-4-15	5	2214P-4-4	5	2224P-4	3
209P-6-4	10	208P-6-4	3	222P-4-2	5	2214P-6-6	2		
209P-8-6	5	215PN-2	10	222P-6-4	5	2203P-2	5		

40B Cabinet - PMT

Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
169PMNS-2-2	5	269PMTNS-6-6	5	62PMT-10	2	68PM-5/32-2	5	68PMT-8-4	3
169PMNS-5/32-2	5	269PMTNS-8-4	3	62PMT-4	5	68PMT-10-8	2	68PMT-8-6	3
269PMTNS-10-8	2	269PMTNS-8-6	3	62PMT-6	3	68PMT-4-2	5		
269PMTNS-4-2	5	62PM-2	5	62PMT-8	3	68PMT-4-4	5		
269PMTNS-4-4	5	62PM-3	5	68PM-2-2	5	68PMT-6-4	5		
269PMTNS-6-4	5	62PM-5/32	5	68PM-3-2	5	68PMT-6-6	5		

Air Conditioning & Refrigeration Merchandiser Kit

PKT06651 & PKT06652

PKT06651 Merchandiser Kit

The Air Conditioning & Refrigeration Merchandiser Kit contains all the necessary product and tooling to start replacing Air Conditioning and Refrigeration hose assemblies utilizing R12, R22 and R134a refrigerant.

- Most popular sizes of 285 hose and 26 Series crimp fittings, Color-coded dies, Fitting bin with 40 openings, and 26 Series bin labels.
- Hose assemblies are fabricated using your current Parkrimp machine.
- Press Kit option provides an easy method utilizing a hydraulic press.
- Minimum 15 ton hydraulic press required.
- Kit supplied in one convenient box.

285 Air Conditioning & Refrigeration Kit: Part # PKT06651 includes the following Hose, Dies and Accessories:

Hose, Dies and Accessories	Part #	Quantity
285 Hose Size -6 (3/8")	285-6-BX	50 ft.
Size -8 (1/2")	285-8-BX	50 ft.
Size -12 (3/4")	285-12-BX	50 ft.
26 Series Crimp Dies	80C-E06	1
	80C-E08	1
	80C-E12	1
40 Hole Fitting Bin	40B-Cabinet	1
26 Series Bin Labels	BIN 4480-B26-U	1
26 Series Fittings	Part #	Quantity
Female Tube O-Ring Swivel	15S26-6-6	3
Straight - Short Pilot	15S26-8-8	3
	15S26-10-12	3
Female Tube O-Ring Swivel	15H26-6-6	3
45° Elbow - Short Pilot	15H26-8-8	3
	15H26-10-12	3
Female Tube O-Ring Swivel	15T26-6-6	3
90° Elbow - Short Pilot	15T26-8-8	3
	15T26-10-12	3
Male Tube O-Ring Swivel	1S526-6-6	3
Straight - Short Pilot	1S526-8-8	3
	1S526-10-12	3
Male Tube O-Ring Swivel	15R26-6-6	3
45° Elbow - Short Pilot	15R26-8-8	3
	15R26-10-12	3
Male Tube O-Ring Swivel	15K26-6-6	3
90° Elbow - Short Pilot	15K26-8-8	3
	15K26-10-12	3
Female Tube O-Ring Swivel	15926-6-6-PT	1
Straight - Long Pilot	15926-8-8-PT	1
	15926-10-12-PT	1
Male Tube O-Ring Swivel	14526-10-12-PT	1
Straight - Long Pilot		
Male Tube O-Ring Swivel	15M26-10-12-PT	1
90° Elbow - Long Pilot		
Male Flareless with O-Ring Seal	1T126-6-6	3
	1T126-8-8	3
	1T126-10-12	3

285 Air Conditioning & Refrigeration Merchandiser Kit with Air-Con Hydraulic Press Kit: Part # PKT06652

plus
the Air-Con Hydraulic Press Kit parts shown

Air-Con Hydraulic Press Kit	Part #	Quantity
Crimper Bowl	8PC-030	1
Pusher	8PC-00P	1
Black Die Ring	81C-R01	1

Air Shift Repair Kits

The Air Shift Repair Kits listed below have been designed to give you an economic kit using either compression or Prestomatic push-to-connect fittings that can be sold to end users for transmission line air shifter repair. Packaging will be in clear plastic bags with labels designating both Parker logo and part number.

Below is listed each part number and contents.

PKT01745

Part Number	Qty
60TF-2	4
61TF-2	1
62TF-2	1
PFT-2A-BLK	10'

PKT01746

Part Number	Qty
60TF-5/32	4
61TF-5/32	1
62TF-5/32	1
PFT-2.5-BLK	10'

PKT05686

Part Number	Qty
62PM-2	1
68PM-2-1	1
68PM-2-2	1
169PMNS-2-2	1
PFT-2A-BLK	10'

PKT05687

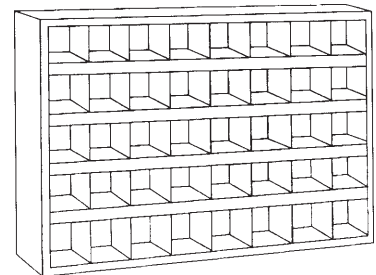
Part Number	Qty
62PM-5/32	1
68PM-5/32-1	1
68PM-5/32-2	1
169PMNS-5/32-2	1
PFT-2.5-BLK	10'

JIC Adapter Assortment

JIC - FBP Assortment

The SAE (JIC) 37° Flare Steel Adapter Assortment includes a prepackaged bin containing the most popular SAE (JIC) 37° Flare steel adapters with both male pipe threads and O-ring style straight thread ends. The appropriate Bin Labels are also included for the assortment.

The 40 compartments will allow you to organize and control your inventory needs. The assortment has been designed to provide you with a wide assortment of these adapters to solve your plumbing requirements for a minimum investment. Parts are easy to identify and retrieve. The heavy duty steel cabinet will provide you with years of dependable service. For specific ordering information, the following table identifies the contents of the assortment.



Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
0103-4-4	4	0503-4-4	4	2103-4-4	4	2503-4-6	4
0103-4-6	4	0503-4-6	4	2103-4-6	4	2503-6-6	4
0103-6-6	4	0503-6-6	4	2103-6-6	4	2503-6-8	4
0103-6-8	4	0503-6-8	4	2103-6-8	4	2503-8-10	2
0103-8-10	2	0503-8-10	2	2103-8-10	2	2503-8-8	4
0103-8-8	5	0503-8-8	4	2103-8-8	5	2503-12-12	2
0103-12-12	2	0503-12-12	2	2103-12-12	2	40B-Cabinet	1
0103-16-16	2	0503-16-16	2	2503-4-4	4	Set Bin Labels	1

New Kit Assortments*

Part No.	Description
PKT07554	Male SAE to Female NPT Conversion
PKT07555	Male NPT to Female SAE Conversion
PKT07556	Male BSPP to Female NPT Conversion
PKT07557	Male BSPT to Female NPT Conversion
PKT07558	NPTF/BSPT and BSPP Brass Conversion
PKT07559	Male Metric to Female NPT Conversion
PKT07560	Male ISO 6149 to Female NPT Conversion
PKT07561	Male SAE to Male NPT Conversion
PKT07692	Oil Drain Adapter Kit

Part No.	Description
PKT06354	Cap & Plug Kit, JIC
PKT06353	Cap & Plug Kit, Pipe / SAE
PKT06843	Cap & Plug Kit, Code 61
PKT06842	Cap & Plug Kit, Code 62
PKT06355	Cap & Plug Kit, Seal-Lok
PKT07210	Air Brake Emergency Repair Kit
PKT06831	Air Brake Repair Kit

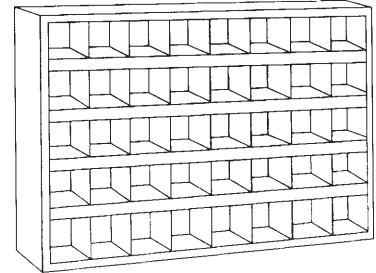
*Contact your Fleet Representative for details.

Seal-Lok Adapter Assortment

PKT04146

The Seal-Lok Adapter Assortment includes a prepackaged bin containing the most popular Seal-Lok adapters with both male pipe threads and O-ring style straight thread ends. The appropriate Bin Labels are also included for the assortment.

The 40 compartments will allow you to organize and control your inventory needs. The assortment has been designed to provide you with a wide assortment of these adapters to solve your plumbing requirements for a minimum investment. Parts are easy to identify and retrieve. The heavy duty steel cabinet will provide you with years of dependable service. For specific ordering information, the following table identifies the contents of the assortment.



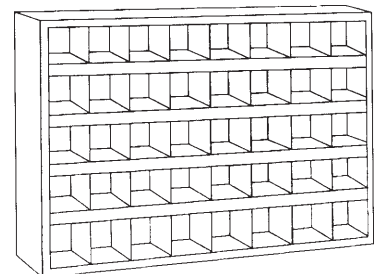
Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
4 F5OLO-S	5	10 C5OLO-S	2	10 FLO-S	2	4 FNL-S	5	10 PNLO-S	2
6 F5OLO-S	5	12 C5OLO-S	2	12 FLO-S	2	6 FNL-S	5	12 PNLO-S	2
8 F5OLO-S	5	16 C5OLO-S	1	16 FLO-S	2	8 FNL-S	5	16 PNLO-S	1
10 F5OLO-S	2	4 FLO-S	5	4 XHLO-S	5	10 FNL-S	2	40B-CABINET	1
12 F5OLO-S	2	4-4 FLO-S	5	6 XHLO-S	5	12 FNL-S	2	LABELS	1
16 F5OLO-S	1	6 FLO-S	5	8 XHLO-S	5	16 FNL-S	2		
4 C5OLO-S	5	6-6 FLO-S	5	10 XHLO-S	2	4 PNLO-S	5		
6 C5OLO-S	5	8 FLO-S	5	12 XHLO-S	2	6 PNLO-S	5		
8 C5OLO-S	5	8-8 FLO-S	5	16 XHLO-S	1	8 PNLO-S	5		

Steel Pipe Adapter Assortment

PKT05603

The Steel Pipe Adapter Assortment includes a prepackaged bin containing the most popular Steel Pipe adapters. The appropriate Bin Labels are also included for the assortment.

The 40 compartments will allow you to organize and control your inventory needs. The assortment has been designed to provide you with a wide assortment of these adapters to solve your plumbing requirements for a minimum investment. Parts are easy to identify and retrieve. The heavy duty steel cabinet will provide you with years of dependable service. For specific ordering information, the following table identifies the contents of the assortment.



Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
0101-4-4	4	0102-4-2	4	2102-12-12	2	0107-12-12	2
0101-6-6	4	0102-6-4	4	2102-16-16	2	0107-16-16	2
0101-8-8	4	0102-8-4	2	0202-4-4	4	3107-4-4	2
0101-12-12	2	0102-8-6	4	0202-6-6	4	3107-6-6	2
0101-16-16	2	0102-12-8	4	0202-8-8	4	3107-8-8	2
2101-4-4	4	0102-16-12	2	0202-12-12	2	3107-12-12	2
2101-6-6	4	0102-20-16	2	0202-16-16	4	2107-4-4	2
2101-8-8	4	2102-4-4	4	0107-4-4	2	2107-6-6	2
2101-12-12	2	2102-6-6	4	0107-6-6	2	2107-8-8	2
2101-16-16	2	2102-8-8	4	0107-8-8	2	2107-12-12	2

O-Ring Kit Assortments

Each kit is packaged in a plastic container with dividers separating the different sizes. Identification inserts on the front assist in correctly sizing O-rings by profile, while the back of the insert shows the thread size and identification number. The following eight kits are available:

PKT02725

ISO 6149 O-Ring Kit

Size	Part Number	Qty
M10X1	M10 ISO O-RING	20
M12X1.5	M12 ISO O-RING	20
M14X1.5	M14 ISO O-RING	15
M16X1.5	M16 ISO O-RING	20
M18X1.5	M18 ISO O-RING	15
M22X1.5	M22 ISO O-RING	15
M27X2	M27 ISO O-RING	10
M33X2	M33 ISO O-RING	5
M42X2	M42 ISO O-RING	5
M48X2	M48 ISO O-RING	5

PKT02727

Metric O-Ring Kit

Size	Part Number	Qty
M10X1	6-074	15
M12X1.5	2-012	20
M14X1.5	2-013	15
M16X1.5	3-907	20
M18X1.5	2-015	15
M20x1.5	2-017	15
M22x1.5	2-018	10
M24X1.5	2-019	10
M33X2	2-122	5
M42X2	2-128	5
M48X2	2-132	5

PKT02726

BSPB O-Ring Kit

Size	Part Number	Qty
G1/8-28	5-585	10
G1/4-19	2-111	20
G3/8-19	2-113	10
G1/2-14	5-256	15
G3/4-14	2-119	15
G1-11	2-217	10
G1 1/4-11	2-222	7
G1 1/2-11	2-224	6

PKT02584

Code 61 & 62 O-Ring Kit

Flange Size	Part Number	Qty
1/2	2-210	10
3/4	2-214	10
1	2-219	15
1 1/4	2-222	15
1 1/2	2-225	15
2	2-228	8
2 1/2	2-232	6
3	2-237	6

PKT02585 (Buna) PKT02972 (Viton)

SAE O-Ring Kit

Size	Part Number	Qty
-2	3-902	10
-3	3-903	10
-4	3-904	15
-5	3-905	10
-6	3-906	15
-8	3-908	15
-10	3-910	10
-12	3-912	15
-14	3-914	10
-16	3-916	15
-20	3-920	10
-24	3-924	10

PKT02586 (Buna) PKT02973 (Viton)

Seal-Lok O-Ring Kit

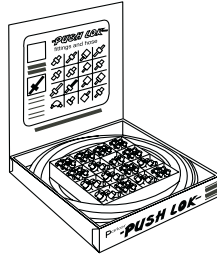
End Size	Part Number	Qty
-4	2-011	25
-6	2-012	25
-8	2-014	25
-10	2-016	25
-12	2-018	25
-16	2-021	10
-20	2-025	10
-24	2-029	10

All kits are Nitrile NBR except where noted. Order by PKT number shown above. For more information see Bulletin 3400 B-8

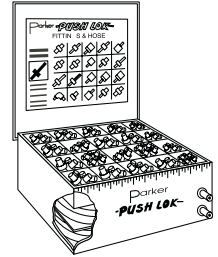
Parker Push-Lok Kits

Parker Push-Lok Kits are for industrial and automotive maintenance and repair shops. They provide a low-cost inventory of Push-Lok hose and ends packaged in a sturdy metal container. They save time and money on hose line replacements for water, air lubricating oils, anti-freeze solutions, diesel fuel and vacuum applications.

Part No. 4-83A



Part No. 46-83A

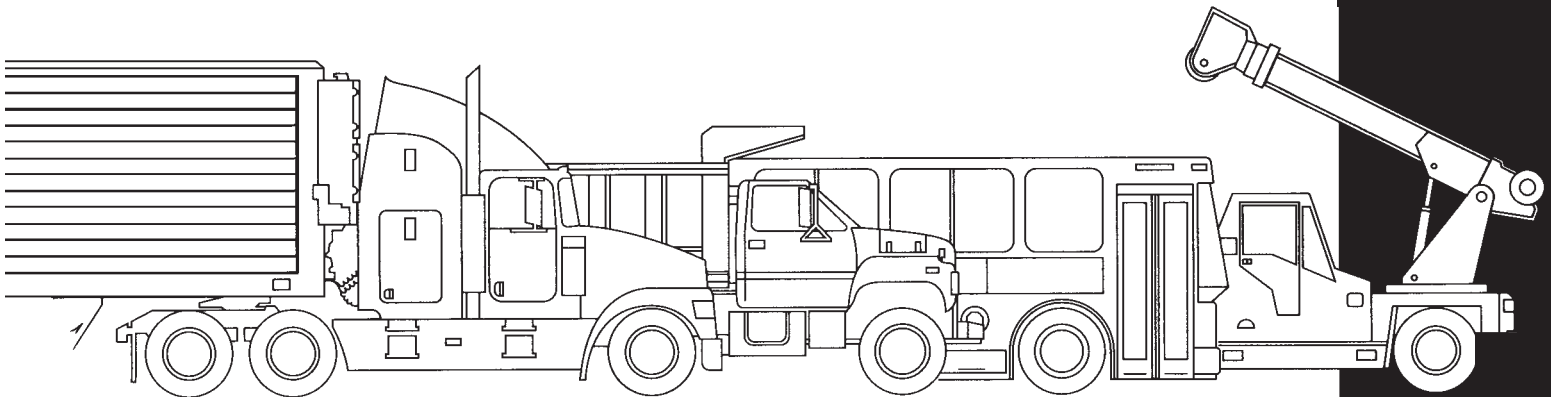
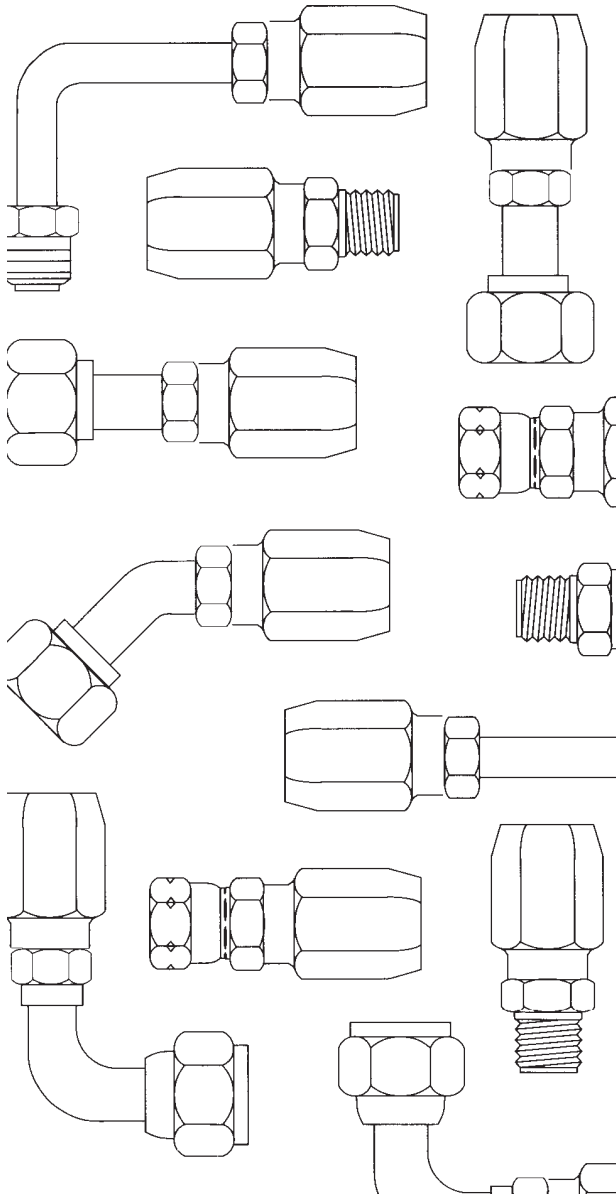


Contents

Part Number	Quantity	Part Number	Quantity
Bulk Hose 831-4 (1/4" I.D.)	10 ft.	Male Inverted Swivel 32882-3-4	1
Male Pipe 30182-2-4B 30182-4-4B	4	32882-4-4	4
	2	32882-5-4	4
Female Pipe 30282-4-4B	2	Female Inverted Rigid 32981-3-4B	1
		32982-4-4B	2
		32982-5-4B	4
Male SAE 45° 30482-4-4B 30482-5-4B	1	Straight Tube 33482-4-4B	2
	2		33482-5-4B
SAE (JIC) 37° Female Swivel 30682-4-4B 30682-5-4B	4	Hose Union 38282-4-4B	2
	2		

Contents

Part Number	Quantity	Part Number	Quantity		
Hose 831-4 (1/4" I.D.) 831-6 (3/8" I.D.)	24 ft. 24 ft.	Male Inverted Swivel 32882-3-4 32882-4-4 32882-5-4 32882-6-6	3 5 5 3		
Male Pipe 30182-2-4B 30182-4-4B 30182-4-6B 30182-6-6B	8 5 5 6	Female Inverted Rigid 32982-3-4B 32982-4-4B 32982-5-4B 32982-6-6B	3 3 5 3		
	Male SAE 45° 30482-4-4B 30482-6-6B		2 3	Hose Union 38282-4-4B 38282-6-6B	4 2
			SAE (JIC) 37° Female Swivel 30682-6-6B		5
	SAE 45° Swivel 30882-4-4B 30882-5-4B 30882-6-6B		5 5 5		



Assembly Instructions	pg. N19
Crimp Diameters	pg. N31
Ferrul-Fix 26 Series Fitting (1T126) Assembly Instructions	pg. N30
Hose Insertion Depths	pg. N31
Karrykrimp (82C-001) Assembly Instructions	pg. N19
Karrykrimp Assembly Instructions for 26 Series Hose and Fittings	pg. N20
Karrykrimp 2 (82C-002) Assembly Instructions	pg. N21
Karrykrimp 2 Assembly Instructions for 26 Series Hose	pg. N22
MiniKrimp™ Assembly Instructions for HY, 43, 55, 57, 58, and 91N Series Fittings	pg. N23
MiniKrimp™ Air Over Hydraulic Pump Upgrade Kit Assembly	pg. N24
Minikrimp™ Assembly Instructions for HY, 43, 55, 57, 58, and 91N Series Fittings using Air Over Hydraulic Pump	pg. N24
Parkrimp 1 (80C-001) Assembly Instructions	pg. N25
Parkrimp 1 Assembly Instructions for 26 Series Hose and Fittings	pg. N26
Parkrimp Hydraulic Press Kit Assembly Instructions	pg. N29
Firesleeve Assembly Instructions	pg. N33
Reusable Fitting Series Assembly Instructions	pg. N34
Push-Lok 82 Series Assembly & Disassembly Instructions; 88 Series Assembly Instructions; 20 Series, Group XIII Non-Mandrel, and Group XV Assembly Instructions; 22 Series and Group XIII Mandrel Assembly Instructions; 42, 30 and 34 Series Assembly Instructions; Silicon 4241, 4244 and 848 Hose Assembly Instructions; 510A and 518C Reusable Hose Assembly Instructions; 90 Series Reusable Fittings Assembly Instructions; Hose Installation Tips; Ferrule-Fix Installation Instructions	
Superkrimp and Parkrimp 2 Assembly Instructions	pg. N27
Crimping Instructions when the Adapter Bowl IS required	
Superkrimp and Parkrimp 2 Assembly Instructions	pg. N28
Crimping Instructions when the Adapter Bowl IS NOT required	

Selection Guides	pg. N3
Crimp Specification & Tool Selection Chart	pg. N32
Fitting End Configurations	pg. N11
GPH Ferrules, Dies and Nipples	pg. N4
Hose Fitting Thread Guide	pg. N10
Parkrimp Tool Selection Chart	pg. N5
Thermoplastic Hose Selection Guide	pg. N3

Parflex Hose Selection Guide

The basic design series for Parflex hoses follows the outline in SAE Standard J517 for SAE 100R7 and 100R8 which are the thermoplastic analogs of rubber hose SAE 100R1 and 100R2. Within these specifications, there are a number of allowable and useful choices of material in offering wire reinforced hoses that exceed 100R1 and 100R2 performance but are made within the much smaller 100R7 and 100R8 size envelopes (560 and 590 styles). Parflex also offers a wide variety of other useful styles that are not covered in present SAE standards. The salient features of these hose styles are given below.

Hose	SAE Rating Equivalent	Pressure Range psi	Size Range (Dash No.)	Max. Temp. °F	Min. Temp. °F	Available Options		Twin-Line	Features
						Non-Conductive	Flame-Resistant		
540N	100R7	1250-3000	2-12	212	-40			3	Single braid flexibility, wide chemical compatibility.
550H, 558H	100R7	1000-3250	2-16	212	-40			3	Double braid ruggedness and kink resistance.
55LT	100R7	2000-3000	4-8	212	-70			3	Low temperature flexibility.
510A, 518C	100R7	1000-3000	3-16	212	-40	518C		3	Reusable or crimp couplings. Use 510A for Freon 12.
520N	100R8	3500-5000	3-8	212	-40			3	Rugged, flexible braids, high pressure.
580N, 588N	100R8	2000-5000	4-16	212	-40	588N		3	Flexible, lightweight, high pressure.
560	100R1	1750-3500	3-12	250	-40			3	Wire braid, compact, flexible, 500 times the abrasion res. of rubber hose.
PTH	--	3000	3	212	-40				Power trim hose.
590	100R2	2000-5000	3-16	250	-40			3	Wire braid, compact, flexible, 500 times the abrasion res. of rubber hose.
GPH	--	250	3-12	150	-15			3	Economical, flexible vinyl (PVC) chemically resistant, easily coupled.
MSH	--	1000	5-6	212	-40				Marine power steering hose. Compact. Flexible. Environmental-resistant.
PSH, HPSH	--	2000-2500	10-16	135	-40				Sewer cleaning equipment. Durable and rugged.
1035	--	1200-1250	4-6	200	-25				High pressure, high temp. water.
TFE HOSES									
919	--	625-3000	4-20	450	-100				TFE tubing, stainless steel braid.

GPH Ferrules, Dies and Nipples

Ferrules	Dies	Nipples	
1893-3	80C-GPH3	H125HBL-10-12	H125HBL-6-4
1893-4	80C-GPH4	H125HBL-10-8	H125HBL-6-6
1893-5	80C-GPH5	H125HBL-12-8	H125HBL-8-4
1893-6	80C-GPH6	H125HBL-16-12	H125HBL-8-6
1893-8	80C-GPH8	H125HBL-16-16	H125HBL-8-8
1893-10	80C-GPH10	H125HBL-3-2	H125HBL-4-2
1893-12	80C-GPH12	H125HBL-4-2	H125HBL-4-4
1893-16	80C-GPH16	H125HBL-4-4	H125HBL-5-4
		H125HBL-4-6	H125HBL-6-4
		H125HBL-5-4	H125HBL-6-6
		H125HBL-5-6	H125HBL-8-8
		H125HBL-6-2	

Parkrimp No-Skive Tool Selection Charts

- Select the Parker Hose that meets your application requirements.
- Find the Parker Hose base part number, size, and the Parker Fitting Series in the Parkrimp Tool Selection Chart below or on the following page(s).
- Based on hose size, select color coded unitized die train. (Each die has part number.)




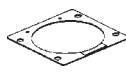























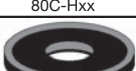
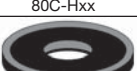
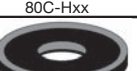
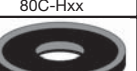



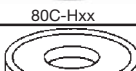
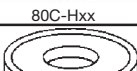
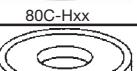




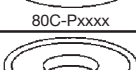
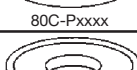
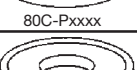
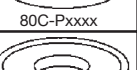
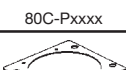
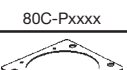

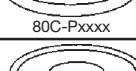
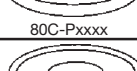
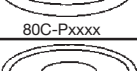
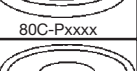
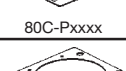
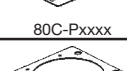

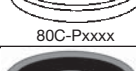
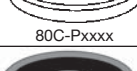







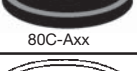
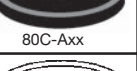


Hose Dash Size	Size	Color
-4	1/4"	Red
-5	5/16"	Purple
-6	3/8"	Yellow
-8	1/2"	Blue
-10	5/8"	Orange
-12	3/4"	Green
-16	1"	Black
-20	1-1/4"	White
-24	1-1/2"	Red
-32	2"	Green

Examples:

Part Number	Description
80C-E08	Silver 13/32" Blue Cavity 26 Series Die
80C-A08	Silver 1/2" Blue Cavity 43 Series Die
83C-L32	Olive Drab 2" Green Cavity 78 Series Die
83C-D08	Black 1/2" Blue Cavity 71 Series Die




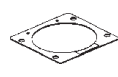







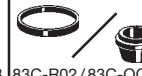
























































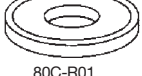



- Based on the Parkrimp machine, select the tool(s) for proper assembly (die ring, spacer ring, spacer plate, and/or adapter bowl).
- Hose assembly instructions for the Parkrimp machine are on the pages following the catalog description of the unit. (An instructional video is a standard part of each Parkrimp machine shipped from the manufacturer.)

Parkrimp Tool Selection Chart 1 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)						
				Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Superkrimp	Parkrimp 2
AX	-4/-16	HY	Silver  80C-Hxx						
AX	-4/-12*	HY	Silver  80C-Hxx						
BXX	-4/-16	HY	Silver  80C-Hxx						
BXX	-4/-12*	HY	Silver  80C-Hxx						
D6	-4/-16	GB/HF /HY	Silver  80C-Pxxxx						
HFS	-4/-16	GB/HY	Silver  80C-Pxxxx						
HFS2	-4/-16	GB/HY	Silver  80C-Pxxxx						
HTB	-6/-16	43	Black  80C-Axx						
MB	-6/-10	43	Silver  80C-Mxxxx						











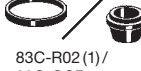
































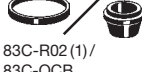





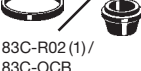
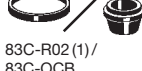















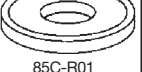



* GB/HF Requires special Dayco tooling, Contact Parflex
 * Minikrimp also available. See page A12.

Parkrimp Tool Selection Chart 2 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)						
				Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Superkrimp	Parkrimp 2
201/261	-4/-16	26	Silver 						
201/261	-20/-32	26	Silver 	-----	-----	-----	-----		
206	-4/-16	26	Silver 						
206	-20/-32	26	Silver 	-----	-----	-----	-----		
213	-4/-16	26	Silver 						
213	-20/-32	26	Silver 	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
225	-4/-16	26	Silver 						
225	-20/-32	26	Silver 	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
235	-16	26	Silver 						
266	-4/-16	26	Silver 						
266	-20/-24	26	Silver 	-----	-----	-----	-----		
285	-4/-12	26	Silver 						
293	-4/-16	26	Silver 						
























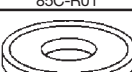
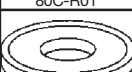
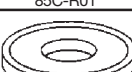




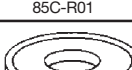
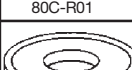
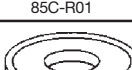

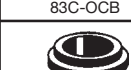






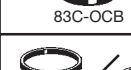





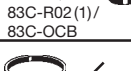
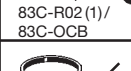



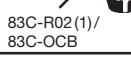
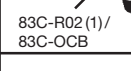



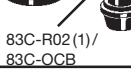
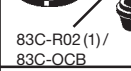







(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING

Parkrimp Tool Selection Chart 3 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)						
				Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Superkrimp	Parkrimp 2
301	-4/-20	43	Silver  80C-Axx						
301	-4/-16	26	Silver  83C-Axx	-----	-----	-----	-----		
301LT	-4/-16	43	Silver  80C-Axx						
304	-4/-20	43	Silver  80C-Axx						
304	-24/-32	43	Silver  83C-Axx	-----	-----	-----	-----		
341	-6/-16	43	Silver  80C-Axx						
341	-20	43	Silver  80C-Axx	-----		-----			
381	-4/-20	43	Silver  80C-Axx						
381	-24/-32	43	Silver  83C-Axx	-----	-----	-----	-----		
421/424	-4/-20	43	Silver  80C-Axx						
421/424	-24/-32	43	Silver  83C-Axx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
421HT	-4/-20	43	Silver  80C-Axx						
421HT	-24/-32	43	Silver  83C-Axx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED





























(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING

Parkrimp Tool Selection Chart 4 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)	Black Die Ring		Silver Die Ring		Spacer Ring	Spacer Plate	Adapter Bowl
				Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Superkrimp	Parkrimp 2	
421WC	-4/-16	43	Silver  80C-Axx							
451TC	-4/-16	43	Silver  80C-Axx							
431/436 432	-4/-16	43	Silver  80C-Axx							
471 / 471ST	-6/-16	43	Silver  80C-Axx							
481 / 482	-4/-16	43	Silver  80C-Axx							
601	-4/-16	43	Silver  80C-Axx							
604	-6/-8/ -16	43	Silver  80C-Axx							
701	-6/-16	70	Black  83C-Dxx Small	-----		-----				
731	-12/-16	73	Olive Drab  80C-Lxx	-----		-----				
731	-12/-20	73	Olive Drab  83C-Lxx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED	
731	-24/-32	73	Olive Drab  83C-Lxx	-----	-----	-----	-----	-----	NONE REQUIRED	
77C/772 774	-6/-20	71	Black  83C-Dxx Small	-----		-----				

(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING

Parkrimp Tool Selection Chart 5 of 5

Hose	Size Range	Fitting Series	Die Used (Base Color)	Black Die Ring	Silver Die Ring	Spacer Ring	Spacer Plate	Adapter Bowl	
				Karrykrimp	Karrykrimp 2	Parkrimp 1	PHastkrimp	Superkrimp	Parkrimp 2
77C/772 774	-24	71	Black  83C-Dxx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
77C/772 774	-32	71	Black  83C-Dxx	-----	-----	-----	-----	-----	NONE REQUIRED
782	-12/-16	78	Olive Drab  80C-Lxx	-----	 85C-R01	-----	 85C-R01	 83C-OBC	 83C-OBC
782	-12/-20	78	Olive Drab  83C-Lxx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
782	-24	78	Olive Drab  83C-Lxx	-----	-----	-----	-----	-----	NONE REQUIRED
78C	-12/-16	78	Olive Drab  80C-Lxx	-----	 85C-R01	-----	 85C-R01	 83C-OBC	 83C-OBC
78C	-12/-20	78	Olive Drab  83C-Lxx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
78C	-24/-32	78	Olive Drab  83C-Lxx	-----	-----	-----	-----	-----	NONE REQUIRED
792	-12/-16	79	Olive Drab  83C-Lxx	-----	-----	-----	-----	NONE REQUIRED	NONE REQUIRED
792	-20	79	Olive Drab  83C-Lxx	-----	-----	-----	-----	-----	NONE REQUIRED
881	-12/-20	43	Silver  80C-Axx	 82C-R02	 85C-R02	 80C-R02	 85C-R02	 83C-R02 (1)/ 83C-OBC	 83C-R02 (1)/ 83C-OBC
881	-24/-32	43	Silver  83C-Axx	-----	-----	-----	-----	 83C-R02H	 83C-R02H

(1) - IF 83C-A16H OR 83C-A20H DIES ARE USED, THE SPACER PLATE 83C-R02H MUST BE UTILIZED INSTEAD OF THE 83C-R02 RING

Assembly Instructions & Selection Guides

Hose Fitting Thread Guide

Dash Size								
	NPTF Pipe Thread Size	SAE (JIC) 37° Flare Thread Size	SAE 45° Flare Thread Size	"O" Ring Style Straight Thread Size	SAE Inverted Flare Thread Size	PTT 30° Flare Thread Size	SAE Flareless Thread Size	Seal-Lok Thread
2	1/8-27	5/16-24	5/16-24	5/16-24	-	-	5/16-24	-
3	-	3/8-24	3/8-24	3/8-24	-	-	3/8-24	-
4	1/4-18	7/16-20	7/16-20	7/16-20	1/4-18	-	7/16-20	9/16-18
5	-	1/2-20	1/2-20	1/2-20	-	-	1/2-20	-
6	3/8-18	9/16-18	5/8-18	9/16-18	3/8-18	-	9/16-18	11/16-16
8	1/2-14	3/4-16	23/4-16	23/4-16	1/2-14	-	3/4-16	13/16-16
10	-	7/8-14	7/8-14	7/8-14	-	-	7/8-14	1-14
12	3/4-14	11/16-12	11/16-12	11/16-12	-	-	11/16-12	13/16-12
14	-	13/16-12	-	13/16-12	-	-	13/16-12	-
16	1-11 1/2	15/16-12	-	15/16-12	-	15/16-14	15/16-12	17/16-12
20	1 1/4-11 1/2	15/8-12	-	15/8-12	-	15/8-14	15/8-12	-
24	1 1/2-11 1/2	17/8-12	-	17/8-12	-	17/8-14	17/8-12	-
32	2-11 1/2	2 1/2-12	-	2 1/2-12	-	2 1/2-12	2 1/2-12	-

Fitting Size										
	Metric Swivel Female Thread Size	Metric Swivel Female Thread Size	Male Stud Thread Size	Male Stud Thread Size	Male BSP Thread Size	BSP Swivel Female Thread Size	French Swivel Female Gas Series	French Swivel Female Metric Series	French Male Stud Metric Series	French Male Stud Gas Series
4	-	-	-	-	1/4"	1/4"	-	-	-	-
6	M12x1.5	-	M12x1.5	-	3/8"	3/8"	-	M12x1	M12x1	-
8	M14x1.5	M16x1.5	M14x1.5	M16x1.5	1/2"	1/2"	-	M14x1.5	M14x1.5	-
10	M16x1.5	M18x1.5	M16x1.5	M18x1.5	-	5/8"	-	M16x1.5	M16x1.5	-
12	M18x1.5	M20x1.5	M18x1.5	M20x1.5	3/4"	3/4"	-	M18x1.5	M18x1.5	M20x1.5
-	-	-	-	-	-	-	M20x1.5	-	-	-
14	-	M22x1.5	-	M22x1.5	-	-	-	M20x1.5	M20x1.5	-
15	M22x1.5	-	M22x1.5	-	-	-	-	M22x1.5	-	-
16	-	M24x1.5	-	M24x1.5	1"	1"	-	M24x1.5	M24x1.5	M24x1.5
-	-	-	-	-	-	-	M24x1.5	-	-	-
18	M26x1.5	-	M26x1.5	-	-	-	-	M27x1.5	M27x1.5	-
20	-	M30x2	-	M30x2	-	-	-	M27x1.5	-	M30x1.5
-	-	-	-	-	-	-	M30x1.5	-	-	-
22	M30x2	-	M30x2	-	-	-	-	M30x1.5	M30x1.5	-
25	-	M36x2	-	M36x2	-	-	-	M33x1.5	-	M36x1.5
-	-	-	-	-	-	-	M36x1.5	-	-	-
28	M36x2	-	M36x2	-	-	-	-	-	-	-
30	-	M42x2	-	M42x2	-	-	-	M39x1.5	M39x1.5	M45x1.5
33	-	-	-	-	-	-	M45x1.5	-	-	-

Standard Fitting Configurations by Description, End Code and Series (page 1 of 8)

- | | |
|---|---|
| <p>(1.) Fittings are ordered by part numbers listed in this catalog.</p> <p>(2.) The standard fittings are identified with a bullet in the charts on the following pages. This includes an End Configuration Description, 2-Digit Fitting Code, and Fitting Series.
<i>Example: Description — Male NPTF Pipe - Swivel Under Pressure - Straight
End Code — 13
Standard Fitting Series — 30, 42, 43, and 82.</i></p> <p>(3.) Assemble a part number by selecting the:
a.) Code for Fitting Type — 1=crimp, 2=field attachable or 3=Push-Lok,</p> | <p>b.) 2-Digit Fitting Code
c.) Fitting Series — 20, 21, 22, 23, 26, 30, 34, 42, 43, 70, 71, 73, 78, 79, 82, and 88 Series.</p> <p><i>Example: Part number 11343 (1 13 43) is the base part number for a Crimp (1) / Male NPTF Pipe - Swivel Under Pressure - Straight (13) / Fitting Series (43).</i></p> <p>(4.) See the catalog index or the corresponding fitting series table of contents for part number page location.</p> |
|---|---|

Description	End Code	Standard Fittings Series						
		26	43	70	71	73	78	79
Male NPTF Pipe - Rigid - Straight	01	•	•	•	•	•	•	
Male NPTF Pipe - Swivel under Pressure - Straight	13		•					
Male NPTF Pipe - Swivel under Pressure - 90° Elbow	1L		•					
Male API Pipe - Rigid - Straight	AP				•			
Female NPTF Pipe - Rigid - Straight	02		•					
Female NPSM Pipe - Swivel - Straight (60° Cone)	07		•					
Female NPTF Pipe - Swivel under Pressure - Straight	S2		•					
Female NPSM Pipe - Gasket Joint - Swivel - Straight	7G							
Female Grease Connection - SPL-PTF Taper Thread - Rigid Straight	GJ		•					
Male NPTF Pipe - Rigid - 45° Elbow	21							
Male NPTF Pipe - Rigid - 90° Elbow or Side Outlet	31							
Male SAE Straight Thread with O-Ring - Rigid - Straight	05		•		•			
Male SAE Straight Thread with O-Ring - Swivel under Pressure 90° Elbow	0L		•					
Male SAE Straight Thread with O-Ring - Swivel under Pressure Straight	0G		•					
Male JIC 37° - Rigid - Straight	03	•	•	•	•			
Male JIC 37° - Bulkhead without Locknut - Straight	LB		•					
Female JIC 37° - Swivel - Straight	06	•	•	•	•	•	•	
Female JIC 37° - Swivel - 45° Elbow - Short Drop	37	•	•		•			
Female JIC 37° - Swivel - 45° Elbow - Medium Drop	L7		•					
Female JIC 37° - Swivel - 90° Elbow - Short Drop	39	•	•	•	•	•	•	
Female JIC 37° - Swivel - 90° Elbow - Medium Drop	L9		•		•			
Female JIC 37° - Swivel - 90° Elbow - Long Drop	41	•	•		•			
Female JIC 37° - Swivel under Pressure - Straight	48							
Female JIC 37° - Swivel - 150° Elbow	4V		•					
Male SAE 45° - Rigid - Straight	04	•	•					
Female SAE 45° - Swivel - Straight	08	•	•					
Female SAE 45 / Swivel - 45° Elbow	77	•	•					
Female SAE 45 / Swivel - 90° Elbow	79	•	•					
Female SAE 45 / Swivel - 90° Elbow - Long Drop	81							
Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68	•						
Female JIC 37°/SAE 45° Dual Flare - Swivel - 45° Elbow Short Drop	3V	•						
Female JIC 37°/SAE 45° Dual Flare - Swivel - 90° Elbow Short Drop	3W	•						
Male Ferulok Flareless - Rigid - Straight (24° Cone with Nut and Ferrule)	11		•					
Female Ferulok Flareless - Swivel - Straight (24° Cone)	12		•					
Male Inverted SAE 45° - Swivel - Straight	28		•					
Male Inverted SAE 45° - Swivel - 45° Elbow	67		•					
Male Inverted SAE 45° - Swivel - 90° Elbow	69		•					
Male Inverted SAE 45° - Swivel - 90° Elbow - Long (In-Line)	71							
Female Inverted SAE 45° - Rigid - Straight	29							
Male Tube-O - Swivel - Straight - Short Pilot	S5	•						

Standard Fitting Configurations by End Code and Series (page 2 of 8)

Description	End Code	Standard Fittings Series						
		26	43	70	71	73	78	79
Male Tube-O - Swivel - Straight - Short Pilot with Charge Port for R12	S5-PR	•						
Male Tube-O - Swivel - Straight - Long Pilot	45							
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R12	45-PR	•						
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R134a	45-PT	•						
Female Tube-O - Swivel - 90° Elbow - Long Pilot	5L							
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5L-PR	•						
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5L-PT	•						
Male Tube-O - Swivel - 90° Elbow - Long Pilot	5M	•						
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5M-PR	•						
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PT	•						
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PV	•						
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step)	5G	•						
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step) with Charge Port for R12	5G-PR	•						
Male Tube-O - Swivel - 45° Elbow - Short Pilot	5R	•						
Male Tube-O - Swivel - 45° Elbow - Long Pilot	5P							
Male Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for R134a	5P-PT	•						
Male Tube-O - Swivel - 90° Elbow - Short Pilot	5K	•						
Male Tube-O - Swivel - 90° Elbow - Short Pilot with Charge Port for R12	5K-PR	•						
Female Tube-O - Swivel - Straight - Short Pilot	5S	•						
Female Tube-O - Swivel - Straight - Long Pilot	59							
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PT	•						
Female Tube-O - Swivel - 45° Elbow - Short Pilot	5H	•						
Female Tube-O - Swivel - 45° Elbow - Long Pilot	5N							
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for 134a	5N-PT	•						
Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T	•						
Female Air Brake Jounce Line - Swivel - Straight	7B	•						
Female Compressor - Swivel - 45° Elbow	5V	•						
Female Compressor - Swivel - 90° Elbow	5W	•						
Female Compressor - Swivel - 90° Elbow - Block Type	5Z	•						
Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1	•						
Female PTT 30° - Swivel - Straight	32							
Male SAE Compression Seat (without Nut or Sleeve)	61							
Male Hydra-Clip - Rigid - Straight	S0		•					

Standard Fitting Configurations by End Code and Series (page 3 of 8)

Description	End Code	Standard Fittings Series						
		26	43	70	71	73	78	79
Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H							
SAE Code 61 Flange Head - Straight - ISO 12151-3 - S - L	15	•	•	•	•	•	•	
SAE Code 61 Flange Head - Straight - ISO 12151-3 - S - L	4A					•	•	
SAE Code 61 Flange Head - 22½° Elbow - ISO 12151-3 E22M - L	16		•		•			
SAE Code 61 Flange Head - 30° Elbow - ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)	26		•		•			
SAE Code 61 Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	17		•	•	•	•	•	
SAE Code 61 Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	4F					•	•	
SAE Code 61 Flange Head - 60° Elbow - ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)	27		•		•			
SAE Code 61 Flange Head - 67½° Elbow - ISO 12151-3 E67S - L (1 Piece: ISO 12151-3 - E67M - L)	18		•		•			
SAE Code 61 Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	19	•	•	•	•	•	•	
SAE Code 61 Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	4N					•	•	
SAE Code 61 Flange Head - 90° Elbow - Long Drop	89				•			
SAE Code 61 Flange Head - 110° Elbow	2U				•			
SAE Code 62 Flange Head - Straight - ISO 12151-3 - S - S	6A			•	•	•	•	•
SAE Code 62 Flange Head - 22½° Elbow - ISO 12151-3 - E22S - S (1 Piece: ISO 12151-3 - E22M - S)	6B						•	
SAE Code 62 Flange Head - 30° Elbow - ISO 12151-3 - E30S - S (1 Piece: ISO 12151-3 - E30M - S)	6E						•	
SAE Code 62 Flange Head - 45° Elbow - ISO 12151-3 - E45S - S (1 Piece: ISO 12151-3 - E45M - S)	6F				•	•	•	•
SAE Code 62 Flange Head - 60° Elbow - ISO 12151-3 - E60S - S (1 Piece: ISO 12151-3 - E60M - S)	6G						•	•
SAE Code 62 Flange Head - 90° Elbow - ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)	6N			•	•	•	•	•
Caterpillar [®] Flange Head - Straight	XA						•	
Caterpillar [®] Flange Head - 22½° Elbow	XB						•	
Caterpillar [®] Flange Head - 30° Elbow	XE						•	
Caterpillar [®] Flange Head - 45° Elbow	XF						•	
Caterpillar [®] Flange Head - 60° Elbow	XG						•	
Caterpillar [®] Flange Head - 67½° Elbow	XM						•	
Caterpillar [®] Flange Head - 90° Elbow	XN						•	
Male Seal-Lok - Rigid - Straight (with O-Ring)	J0		•		•			
Male Seal-Lok - Bulkhead without Locknut - Straight (without O-Ring)	JB		•					
Female Seal-Lok - Swivel - Straight - Long	JS		•	•	•	•	•	•
Female Seal-Lok - Swivel - Straight - Short	JC	•	•	•	•			
Female Seal-Lok - Swivel - 22½° Elbow	J6		•					
Female Seal-Lok - Swivel - 45° Elbow	J7	•	•	•	•	•	•	•

Standard Fitting Configurations by End Code and Series (page 4 of 8)

Description	End Code	Standard Fittings Series						
		26	43	70	71	73	78	79
Female Seal-Lok - Swivel - 90° Elbow - Short Drop	J9	•	•	•	•	•	•	•
Female Seal-Lok - Swivel - 90° Elbow - Medium Drop	J5		•	•	•			
Female Seal-Lok - Swivel - 90° Elbow - Long Drop	J1		•	•	•			
Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34							
Push-Lok Union	82							
Hose Splicer	88							
Male Metric L - Rigid - Straight (24° Cone)	D0		•					
Male Standpipe Metric L - Rigid - Straight	1D		•					
Female Metric - Swivel - Straight (Ball Nose)	C0		•					
Female Metric L - Swivel - Straight (Ball Nose)	C3		•					
Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4		•					
Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5		•					
Female Metric L - Swivel - Straight (24° Cone with O-Ring)	CA		•					
Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring)	CE		•					
Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring)	CF		•					
Male Metric S - Rigid - Straight (24° Cone)	D2		•		•	•	•	
Male Standpipe Metric S - Rigid - Straight	3D		•					
Female Metric S - Swivel - Straight (Ball Nose)	C6		•					
Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7							
Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8							
Female Metric S - Swivel - Straight (24° Cone with O-Ring)	C9		•	•	•	•	•	
Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring)	0C		•			•	•	
Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring)	1C		•			•	•	
Male BSP Taper Pipe - Rigid - Straight	91							
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	92		•					
Male BSP Parallel Pipe - Rigid - Straight (60° Cone)	D9		•					
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	B1		•					
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	B2		•					
Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone)	B4		•					
Female BSP Parallel Pipe - Swivel - Straight (Flat Seat)	B5		•					
Female Metric - Swivel - Straight (30° Flare)	MU		•		•			
Female Metric - Swivel - Straight (30° Flare)	XU		•		•			
Female BSP Parallel Pipe - Swivel - Straight (30° Flare)	FU		•		•			
Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT		•		•			
Male BSP Taper Pipe - Rigid - 45° Elbow	BV							
Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ							
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	GU		•	•	•	•	•	
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	G1					•		
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	G2					•		
Male French Gaz Series - Rigid - Straight (24° Cone)	FG			•		•		
Female French Gaz Series - Swivel - Straight (Ball Nose)	F4		•					
DIN Metric Banjo - Straight	49		•					
88 Series Hose Clamp-SAE 100R4 Two-Bolt Clamp Subassembly	88HC-H							
88 Series Hose Clamp (Worm Gear)	88HC							

Standard Fitting Configurations by End Code and Series (page 5 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	34	42	82	88
Male NPTF Pipe - Rigid - Straight	01	•	•	•		•	•	•	•	•
Male NPTF Pipe - Swivel under Pressure - Straight	13					•		•	•	
Male NPTF Pipe - Swivel under Pressure - 90° Elbow	1L									
Male API Pipe - Rigid - Straight	AP									
Female NPTF Pipe - Rigid - Straight	02								•	
Female NPSM Pipe - Swivel - Straight (60° Cone)	07									
Female NPTF Pipe - Swivel under Pressure - Straight	S2									
Female NPSM Pipe - Gasket Joint - Swivel - Straight	7G								•	
Female Grease Connection - SPL-PTF Taper Thread - Rigid Straight	GJ									
Male NPTF Pipe - Rigid - 45° Elbow	21									•
Male NPTF Pipe - Rigid - 90° Elbow or Side Outlet	31									•
Male SAE Straight Thread with O-Ring - Rigid - Straight	05					•	•	•		•
Male SAE Straight Thread with O-Ring - Swivel under Pressure 90° Elbow	0L									
Male SAE Straight Thread with O-Ring - Swivel under Pressure Straight	0G									
Male JIC 37° - Rigid - Straight	03	•				•	•	•	•	
Male JIC 37° - Bulkhead without Locknut - Straight	LB									
Female JIC 37° - Swivel - Straight	06	•	•	•	•	•	•	•	•	•
Female JIC 37° - Swivel - 45° Elbow - Short Drop	37	•	•			•	•	•	•	
Female JIC 37° - Swivel - 45° Elbow - Medium Drop	L7									
Female JIC 37° - Swivel - 90° Elbow - Short Drop	39	•	•			•	•	•	•	
Female JIC 37° - Swivel - 90° Elbow - Medium Drop	L9									
Female JIC 37° - Swivel - 90° Elbow - Long Drop	41	•	•			•	•	•	•	
Female JIC 37° - Swivel under Pressure - Straight	48					•		•		
Female JIC 37° - Swivel - 150° Elbow	4V									
Male SAE 45° - Rigid - Straight	04	•							•	
Female SAE 45° - Swivel - Straight	08	•	•	•	•	•	•	•	•	
Female SAE 45 / Swivel - 45° Elbow	77	•	•						•	
Female SAE 45 / Swivel - 90° Elbow	79	•	•						•	
Female SAE 45 / Swivel - 90° Elbow - Long Drop	81	•	•							
Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68									
Female JIC 37°/SAE 45° Dual Flare - Swivel - 45° Elbow Short Drop	3V									
Female JIC 37°/SAE 45° Dual Flare - Swivel - 90° Elbow Short Drop	3W									
Male Ferulok Flareless - Rigid - Straight (24° Cone with Nut and Ferrule)	11	•				•	•	•		
Female Ferulok Flareless - Swivel - Straight (24° Cone)	12					•	•	•		
Male Inverted SAE 45° - Swivel - Straight	28	•	•						•	
Male Inverted SAE 45° - Swivel - 45° Elbow	67	•	•						•	
Male Inverted SAE 45° - Swivel - 90° Elbow	69	•	•						•	
Male Inverted SAE 45° - Swivel - 90° Elbow - Long (In-Line)	71	•								
Female Inverted SAE 45° - Rigid - Straight	29								•	
Male Tube-O - Swivel - Straight - Short Pilot	S5	•	•							

Standard Fitting Configurations by End Code and Series (page 6 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	34	42	82	88
Male Tube-O - Swivel - Straight - Short Pilot with Charge Port for R12	55-PR									
Male Tube-O - Swivel - Straight - Long Pilot	45	•	•							
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R12	45-PR									
Male Tube-O - Swivel - Straight - Long Pilot with Charge Port for R134a	45-PT									
Female Tube-O - Swivel - 90° Elbow - Long Pilot	5L	•	•							
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5L-PR									
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5L-PT									
Male Tube-O - Swivel - 90° Elbow - Long Pilot	5M	•	•							
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R12	5M-PR									
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PT									
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Charge Port for R134a	5M-PV									
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step)	5G									
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step) with Charge Port for R12	5G-PR									
Male Tube-O - Swivel - 45° Elbow - Short Pilot	5R	•	•							
Male Tube-O - Swivel - 45° Elbow - Long Pilot	5P	•	•							
Male Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for R134a	5P-PT									
Male Tube-O - Swivel - 90° Elbow - Short Pilot	5K	•	•							
Male Tube-O - Swivel - 90° Elbow - Short Pilot with Charge Port for R12	5K-PR									
Female Tube-O - Swivel - Straight - Short Pilot	5S	•	•							
Female Tube-O - Swivel - Straight - Long Pilot	59	•	•							
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PT									
Female Tube-O - Swivel - 45° Elbow - Short Pilot	5H	•	•							
Female Tube-O - Swivel - 45° Elbow - Long Pilot	5N	•	•							
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Charge Port for 134a	5N-PT									
Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T	•	•							
Female Air Brake Jounce Line - Swivel - Straight	7B									
Female Compressor - Swivel - 45° Elbow	5V									
Female Compressor - Swivel - 90° Elbow	5W									
Female Compressor - Swivel - 90° Elbow - Block Type	5Z									
Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1									
Female PTT 30° - Swivel - Straight	32	•	•	•	•					
Male SAE Compression Seat (without Nut or Sleeve)	61	•	•							
Male Hydra-Clip - Rigid - Straight	S0									

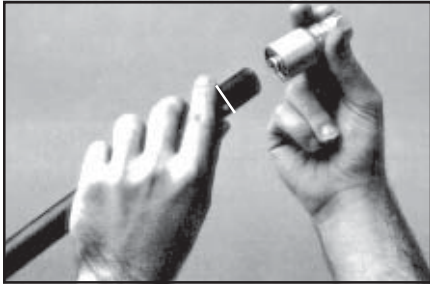
Standard Fitting Configurations by End Code and Series (page 7 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	34	42	82	88
Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H		•							
Flange Head - Straight - ISO 12151-3- S - L	15	•				•	•	•		•
Flange Head - Straight - ISO 12151-3 - S - L	4A									
Flange Head - 22½° Elbow - ISO 12151-3 - E22M - L	16									
Flange Head - 30° Elbow - ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)	26									
Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	17	•				•	•	•		•
Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	4F									
Flange Head - 60° Elbow - ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)	27									
Flange Head - 67½° Elbow - ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)	18									
Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	19	•				•	•	•		•
Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	4N									
Flange Head - 90° Elbow - Long Drop	89									
Flange Head - 110° Elbow	2U									
Flange Head - Straight - ISO 12151-3- S - L	6A									
Flange Head - 22½° Elbow - ISO 12151-3 - E22S - L (1 Piece: ISO 12151-3 - E22M - L)	6B									
Flange Head - 30° Elbow - ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)	6E									
Flange Head - 45° Elbow - ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)	6F									
Flange Head - 60° Elbow - ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)	6G									
Flange Head - 90° Elbow - ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)	6N									
Flange Head - Straight	XA									
Flange Head - 22½° Elbow	XB									
Flange Head - 30° Elbow	XE									
Flange Head - 45° Elbow	XF									
Flange Head - 60° Elbow	XG									
Flange Head - 67½° Elbow	XM									
Flange Head - 90° Elbow	XN									
Male Seal-Lok - Rigid - Straight (with O-Ring)	J0								•	
Male Seal-Lok - Bulkhead without Locknut - Straight (without O-Ring)	JB									
Female Seal-Lok - Swivel - Straight - Long	JS	•				•	•	•		
Female Seal-Lok - Swivel - Straight - Short	JC								•	
Female Seal-Lok - Swivel - 22½° Elbow	J6									
Female Seal-Lok - Swivel - 45° Elbow	J7	•				•	•	•	•	

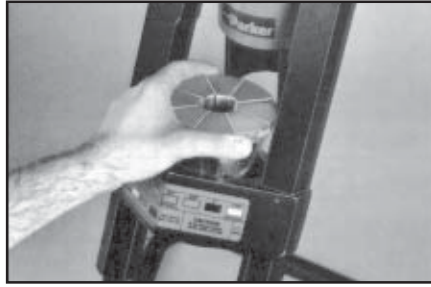
Standard Fitting Configurations by End Code and Series (page 8 of 8)

Description	End Code	Standard Fittings Series								
		20	21	22	23	30	34	42	82	88
Female Seal-Lok - Swivel - 90° Elbow - Short Drop	J9	•				•	•	•	•	
Female Seal-Lok - Swivel - 90° Elbow - Medium Drop	J5								•	
Female Seal-Lok - Swivel - 90° Elbow - Long Drop	J1	•				•	•	•	•	
Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34								•	
Push-Lok Union	82								•	
Hose Splicer	88									•
Male Metric L - Rigid - Straight (24° Cone)	D0	•				•		•	•	
Male Standpipe Metric L - Rigid - Straight	1D	•				•		•	•	
Female Metric - Swivel - Straight (Ball Nose)	C0									
Female Metric L - Swivel - Straight (Ball Nose)	C3	•				•		•	•	
Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4					•		•	•	
Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5	•				•		•	•	
Female Metric L - Swivel - Straight (24° Cone with O-Ring)	CA									
Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring)	CE									
Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring)	CF									
Male Metric S - Rigid - Straight (24° Cone)	D2					•		•		
Male Standpipe Metric S - Rigid - Straight	3D					•		•		
Female Metric S - Swivel - Straight (Ball Nose)	C6					•		•		
Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7					•		•		
Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8					•		•		
Female Metric S - Swivel - Straight (24° Cone with O-Ring)	C9					•		•		
Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring)	0C									
Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring)	1C									
Male BSP Taper Pipe - Rigid - Straight	91								•	
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	92					•		•	•	
Male BSP Parallel Pipe - Rigid - Straight (60° Cone)	D9					•		•	•	
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	B1					•		•		
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	B2					•		•	•	
Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone)	B4									
Female BSP Parallel Pipe - Swivel - Straight (Flat Seat)	B5									
Female Metric - Swivel - Straight (30° Flare)	MU									
Female Metric - Swivel - Straight (30° Flare)	XU									
Female BSP Parallel Pipe - Swivel - Straight (30° Flare)	FU									
Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT									
Male BSP Taper Pipe - Rigid - 45° Elbow	BV								•	
Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ								•	
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	GU									
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	G1									
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	G2									
Male French Gaz Series - Rigid - Straight (24° Cone)	FG									
Female French Gaz Series - Swivel - Straight (Ball Nose)	F4									
DIN Metric Banjo - Straight	49								•	
88 Series Hose Clamp-SAE 100R4 Two-Bolt Clamp	88HC-H									•
88 Series Hose Clamp (Worm Gear)	88HC									•

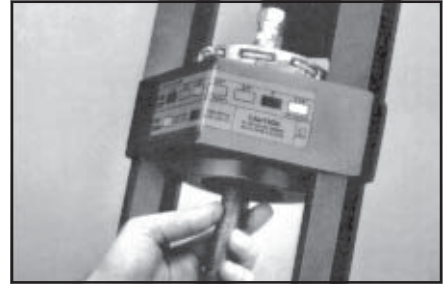
Karrykrimp (82C-001) Assembly Instructions



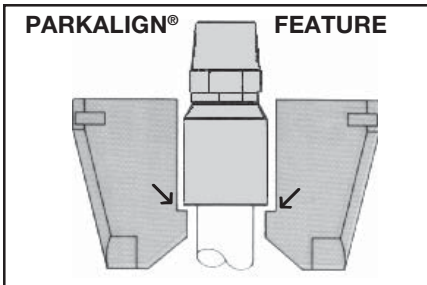
1. Place the hose next to the fitting shell and mark the length of the shell on to the hose or mark length by use of the Hose Insertion Depth table on page N26. Push hose into the fitting until the mark on the hose is even with the end of the shell (lubricate hose, if necessary).



2. Pull pin at the top of the unit and place unitized die-train into base plate. See decal on crimper for proper die set.
Note: Die sets are color coded by size. Insure die bowl is greased with high compression grease prior to crimping fittings.



3. Position the hose and fitting in dies from below.



3b. Rest bottom of coupling on die step using PARKALIGN® feature.



4. Place the die ring on top of the dies. See decal on crimper for proper die ring.



5. Position cylinder and replace pin. Pump until die ring contacts base plate. Hand pump shown.

OPTIONAL:

- Hand pump (82C-0HP)
- Hand pump (85C-0HP)
- Air-oil pump (82C-0AP)
- Electric pump (82C-0EP)
- Electric pump (85C-0EP)
- Battery-Powered pump (82C-3BP-1)



6. Release pressure—remove finished assembly. Check crimp diameter (see page N28).

Note: See page N28 for Parkrimp crimp diameters.

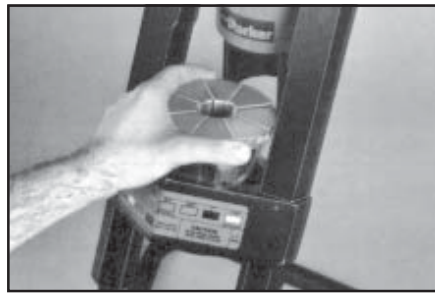
Note: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

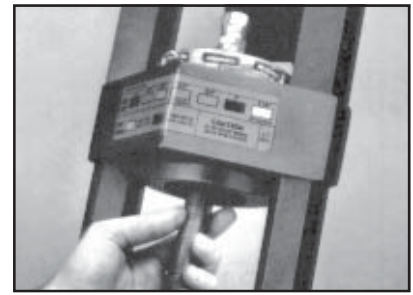
Karrykrimp Assembly Instructions for 26 Series Hose and Fittings



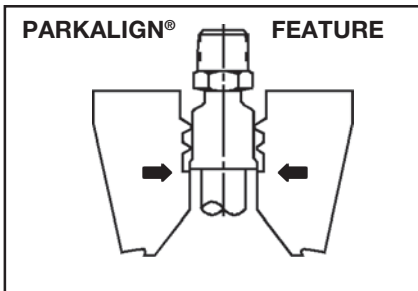
1. Place the hose next to the fitting shell and mark the length of the shell on to the hose. Push hose into the fitting until the mark on the hose is even with the end of the shell.



2. Pull pin at the top of the unit and place unitized die-train into base plate.
Note: Die sets are color coded by size. See Parkrimp Tool Selection Chart on pages N5-N8.



3. Position the hose and fitting in the dies from below.



3b. Rest bottom of coupling on die step using PARKALIGN® feature.



4. Place correct die ring on top of the dies.
Note: Select correct die ring based on Tool Selection Chart on pages N5-N8.

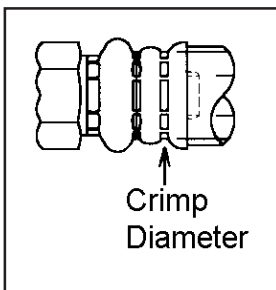


5. Reposition cylinder and replace pin. Pump until die ring contacts base plate. Hand pump shown.

Standard Power Units:

- Hand pump (82C-0HP)
- Hand pump (85C-0HP)
- Air-oil pump (82C-0AP)
- Electric pump (82C-0EP)
- Electric pump (85C-0EP)
- Battery-Powered pump (82C-3BP-1)

Note: See page N28 for Parkrimp crimp diameters.



6. Release pressure—remove finished assembly. Check crimp diameter of the flat surface of the grooves as shown (see above illustration). Crimp diameters are listed in the chart on page N28.

Important: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Karrykrimp 2 (82C-002) Assembly Instructions



1. Place the hose next to the fitting shell and mark the length of the shell on to the hose or mark length by use of the Hose Insertion Depth Table below. Push hose into the fitting until the mark on the hose is even with the end of the shell (lubricate hose, if necessary).

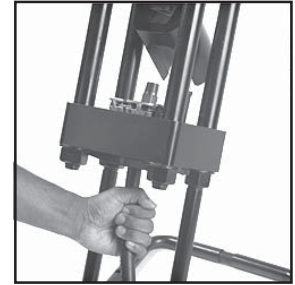


2. Remove pin from inside pusher unit so pusher will swing back.

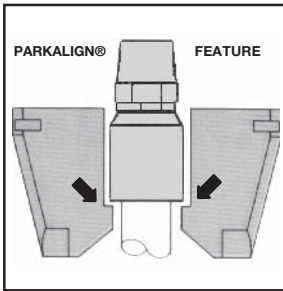


3. Place unitized die-train in place. See decal on crimper for proper die set.

Note: Die sets are color coded by size.



4. Position the hose and fitting in dies from below.



4b. Rest bottom of coupling on die step using PARKALIGN® feature.



5. Place the die ring on top of the dies. **See decal on crimper for proper die ring; Silver or Black.** The Silver Die Ring (85C-R01) must be used when crimping 451AR, 431 and 436 hose with 43 Series fittings. The Black Die Ring (85C-R02) must be used when crimping 421WC hose with 43 Series fittings and P80 hose with 28 Series fittings.



6. Position pusher and replace pin. Pump until die ring contacts base plate. Battery-Powered Pump (82C-3BP-1) shown.

Power Units:

- Hand Pump (85C-0HP)
- Air-oil pump (82C-OAP)
- Electric pump (82C-OEP)
- Electric pump (85C-OEP)
- Battery-Powered pump (82C-3BP-1)



7. Release pressure — remove finished assembly. Check crimp diameters with measurements on table below.

Important: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Note For Parflex 55 and 91N Series tooling and crimping information, see page N29.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Note: See page N28 for Parkrimp crimp diameters.

Karrykrimp 2 Assembly Instructions for 26 Series Hose and Fittings



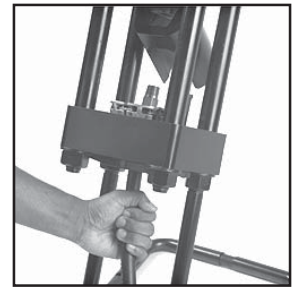
1. Place the hose next to the fitting shell and mark the length of the shell on to the hose. Push hose into the fitting until the mark on the hose is even with the end of the shell.



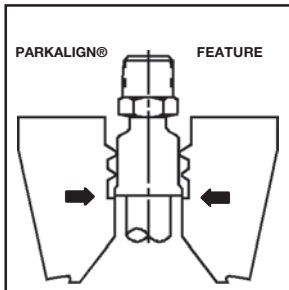
2. Remove pin from inside pusher unit so pusher will swing back.



3. Select proper unitized die-train and place into base plate. **Note:** Die sets are color coded by size. See Parkrimp Tool Selection Chart pages N5-N8.



4. Position the hose and fitting in dies from below.



4b. Rest bottom of coupling on die step using PARKALIGN® feature.



5. Place correct die ring on top of the dies. **Note:** Select correct die ring based on Tool Selection Chart on pages N5-N8.

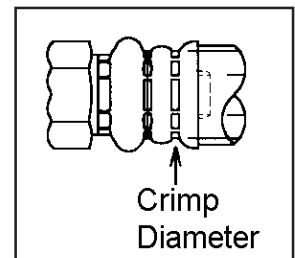


6. Position cylinder and replace pin. Pump until die ring contacts base plate. Battery-Powered Pump (82C-3BP-1) shown.

- Standard Power Units:**
- Hand Pump (85C-0HP)
 - Air-oil pump (82C-0AP)
 - Electric pump (82C-0EP)
 - Electric pump (85C-0EP)
 - Battery-Powered pump (82C-3BP-1)



7. Release pressure—remove finished assembly. Check crimp diameter of the flat surface of the grooves at location shown (see illustration below). Crimp diameters are listed in the chart on page N28.

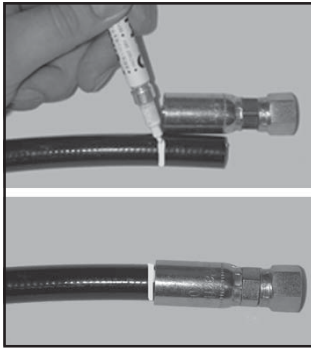


Important: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

MiniKrimp™ Assembly Instructions for HY, 43, 55, 57, 58 and 91N

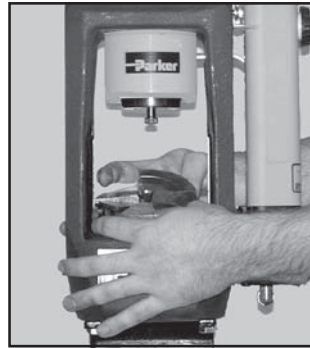
Series Fittings



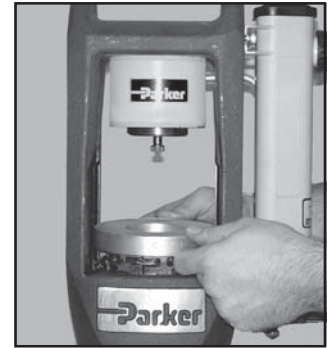
1. Place the hose next to the fitting and align it with the knurl marks in the fitting shell. Mark the length onto the hose. Push hose into the fitting until the mark on the hose is even with the end of the fitting shell (lubricate hose, if necessary).



2. Select proper die set. For Parflex hoses, see "Parflex Hose Crimp Assembly Tool Selection Chart" in this manual.
Note: Die sets are color coded by size.



3a. Using a molybdenum disulfide type grease, apply a thin layer of grease to the die bowl.
 3b. Place unitized die set into die bowl.



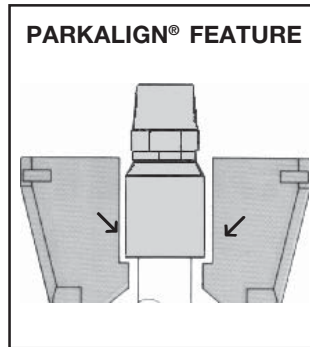
4. Place proper die ring on top of the selected die. See Parker PFD Catalog 4660 for proper die ring selection.



5. Slide pusher into place onto shoulder bolt.



6. Position the hose and fitting in dies from below.



7. Rest bottom of coupling on die step using PARKALIGN® feature.



8. While holding hose and fitting into position on die step, begin pumping hand pump until die ring contacts base plate.



9. Release pressure, remove finished assembly. Check crimp diameter. See Parker PFD Catalog 4660 for correct crimp diameter measurements.



10. Measure crimp diameter of each fitting at the top, middle and bottom of the shell. Take measurements at a minimum of three places around the shell circumference. Verify crimp diameter is within tolerances. For Parflex hoses see "Parflex Hose Crimp Assembly Tool Selection Chart" in this manual for correct crimp diameters.

Note: Hose assemblies must be inspected for cleanliness and should be free of all foreign particles.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating that crimper.

Assembling the MiniKrimp™ Air Over Hydraulic Pump Upgrade Kit

1. (IF APPLICABLE) Remove the hand pump and bent tube assembly from the body of the crimper. Do not take out the adapter in the cylinder as it is the same as the adapter used for the Air over Hydraulic Pump. The adapter will however need to be reoriented.
2. Screw (or reorient) the 6-6 CTXS adapter into the cylinder port and tighten until the fitting is facing in the upward direction. Do not loosen the adapter to reach the correct orientation as this may cause leakage.
3. Screw the 6-2 CTXS adapter into the pump and tighten until the fitting is facing the direction of the fill cap.
4. Mount the pump to the right side of the crimper as shown in the figure using two 1/4" bolt holes on the top of the crimper. Note that only the top two bolt holes are used.
5. Attach the 025399 bent tube assembly to the two adapters. The longer of the two ends of the tube will attach to the pump. Tighten the nuts of the bent tube to a minimum of 21 ft.-lbs.

**MiniKrimp™ Assembly Instructions for HY, 43, 55, 57, 58 and 91N****Series Fittings Using Air Over Hydraulic Pump**

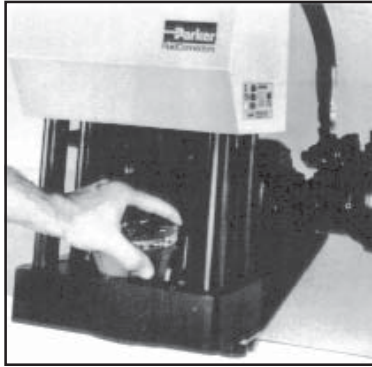
1. See steps 1 – 7 in “MiniKrimp™ Assembly Instructions for HY, 43, 55, 57, 58 and 91N Series Fittings.”
2. Hold black button located on pump below red lever until die ring contacts base plate.
3. Depress red lever to release pressure.
4. Measure crimp diameter of each fitting at the tip, middle and bottom of the shell. Take measurements at a minimum of three places around the shell circumference. Verify crimp diameter is within tolerances. For Parflex hoses see “Parflex Hose Crimp Assembly Tool Selection Chart” in this manual for correct crimp diameters.

Note: Hose assemblies must be inspected for cleanliness and should be free of all foreign particles. Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating that crimper.

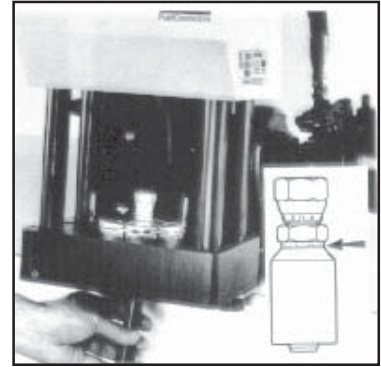
Parkrimp 1 (80C-001) Assembly Instructions



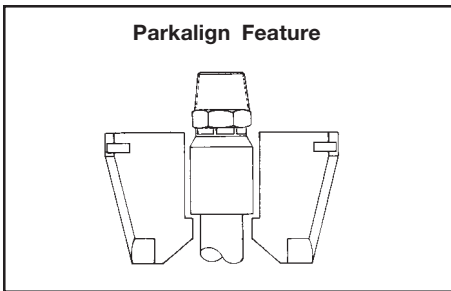
1. Place the hose next to the fitting shell and mark the length of the shell onto the hose or mark length by use of the Hose Insertion Depth Table on page N28. Push hose into the fitting until the mark on the hose is even with the end of the shell (lubricate hose, if necessary).



2. Place die set into the base plate.
Note: Die sets are color coded by size.



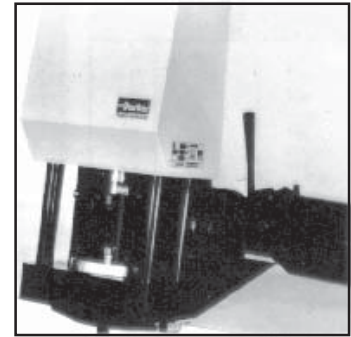
3. Position hose in dies from below.



3b. Rest bottom of coupling on die step using PARKALIGN® feature.

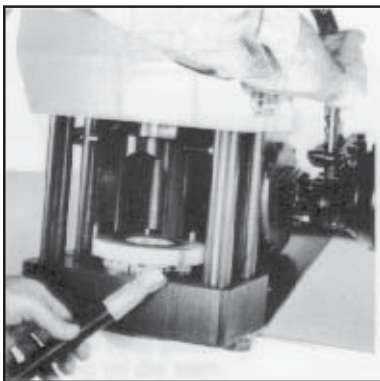


4. Place the die ring on top of the dies. See decal on crimper for proper die ring; **Silver or Black**



5. Activate pump* — pull handle — when die ring fully contacts base plate, crimp is complete.

*Pump should not exceed 3000psi.



6. Push handle to open dies. Remove finished assembly.

Note: The **Silver Die Ring** must be used when crimping **451AR, 431 and 436** hose with **43 Series fittings**.

The **Black Die Ring** must be used when crimping **421WC** hose with **43 Series fittings**.

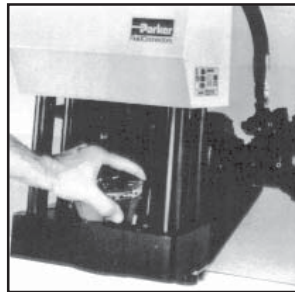
Note: See page N28 for Parkrimp crimp diameters.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Parkrimp 1 Assembly Instructions for 26 Series Hose and Fittings



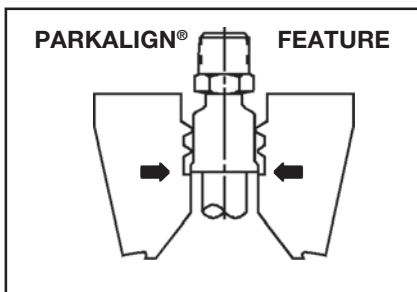
1. Place the hose next to the fitting shell and mark the length of the shell on to the hose. Push hose into the fitting until the mark on the hose is even with the end of the shell.



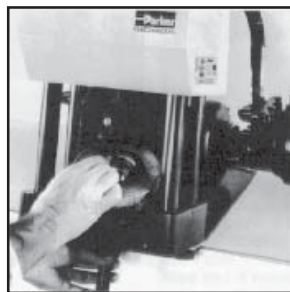
2. Place unitized die-train into base plate.
Note: Die sets are color coded by size. See Parkrimp Tool Selection Chart on pages N5-N8.



3. Position the hose and fitting in the dies from below.



3b. Rest bottom of coupling on die step using PARKALIGN® feature.



4. Place correct die ring on top of the dies.
Note: Select correct die ring based on size. See Parkrimp Tool Selection Chart on pages N5-N8.

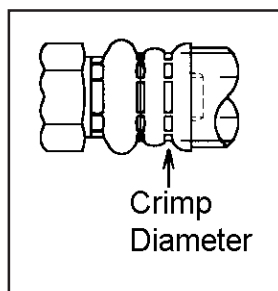


5. Activate pump* — pull handle. Pump until die ring contacts base plate. Crimp is complete.

* **Note:** Pump should not exceed 3000psi.



6. Push handle to release pressure and open dies. Remove finished assembly. Check crimp diameter of the flat surface of the grooves closest at location shown (see illustration).



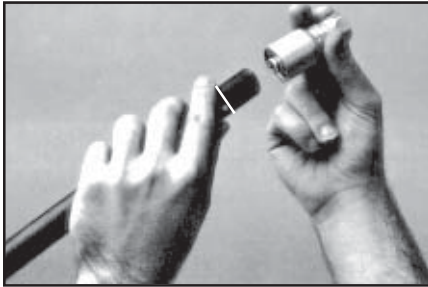
Note: Check crimp diameter of the flat surface of the grooves at location shown (see above illustration). See chart on Page N28 for crimp diameters.

Important: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

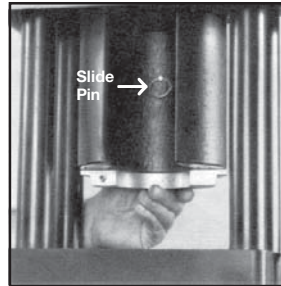
Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Superkrimp and Parkrimp 2 Assembly Instructions

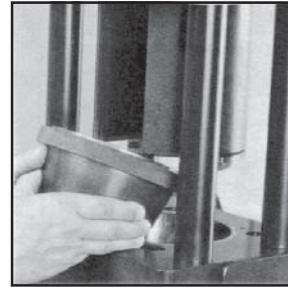
Crimping Instructions when the Adapter Bowl IS required.



1. Place the hose next to the fitting shell and mark the length of the shell onto the hose or mark length by use of the Hose Insertion Depth Table on page M29. Push hose in to the fitting until the mark on the hose is even with the end of the shell (lubricate hose if necessary).
(Note: 792 Hose and 79 Series crimping information is noted on page N25.)



2. With the pusher in the full up position, lift the back half of the split die ring. Lock it in the up position by pushing the slide pin in. (The slide pin is located inside the pusher at the back.)



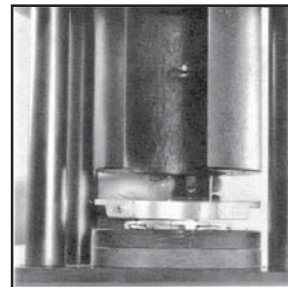
3. Carefully insert the adapter bowl into the base bowl. The adapter bowl must be tilted toward the back of the crimper during insertion. See decal on side of crimper for proper tool selection.



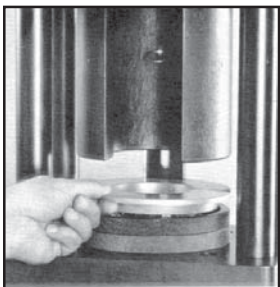
4. Insert the proper size and series die set into the adapter bowl.
Note: Die sets are color coded by size and have the fitting series and dash size stamped on the top.



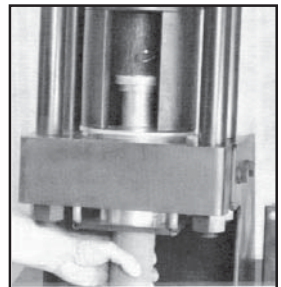
5. If required, place spacer ring on locating step of adapter bowl. Reference hose/die selection chart for usage.



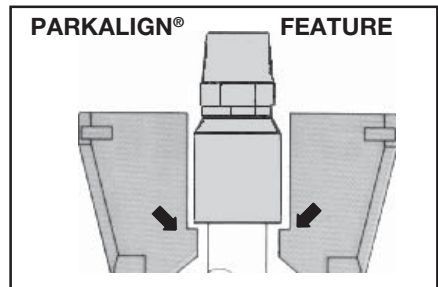
6. Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



7. Insert the front half of the split die ring aligning the pin in the back half with the hole in the front half.



8. Position hose in dies from below.



- 8b. Rest bottom of coupling on die step using PARKALIGN® feature. Once positioned, go to Step 7 on page N25.

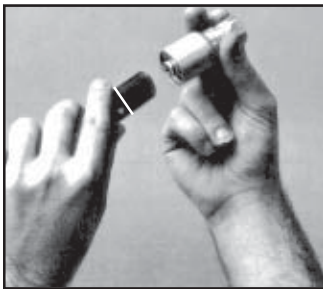
Note: See page N28 for Parkrimp crimp diameters.

Note: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

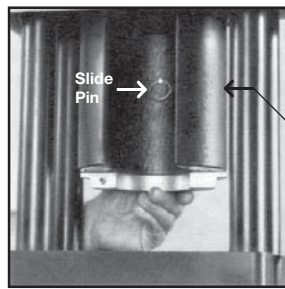
Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Superkrimp and Parkrimp 2 Assembly Instructions

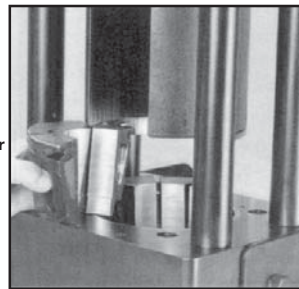
Crimping Instructions when the Adapter Bowl IS NOT required



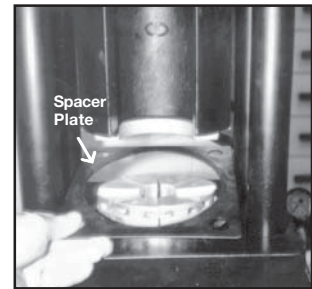
1. Place the hose next to the fitting shell and mark the length of the shell onto the hose or mark length by use of the Hose Insertion Depth Table on page N28. Push hose in to the fitting until the mark on the hose is even with the end of the shell (lubricate hose if necessary). **(Note: 792 Hose and 79 Series crimping information is noted below.)**



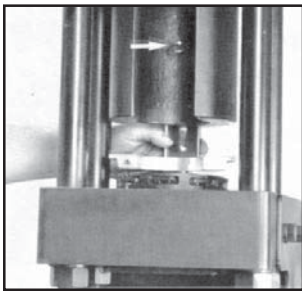
2. With the pusher in the full up position, lift the back half of the split die ring. Lock it in the up position by pushing the slide pin in. (The slide pin is located inside the pusher at the back.)



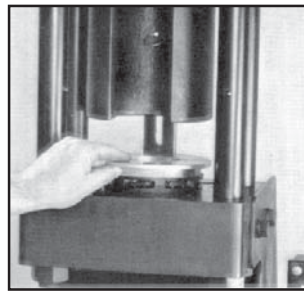
3. Insert the proper size and series die set into the die bowl. (The die sets are in two halves of four dies each. Place one half in the back and one half in the front to facilitate removal of bent tube fittings.) If required, place spacer plate around dies. Reference hose/die selection chart on pages N5-N8 or on side of crimper cover for proper tool selection.



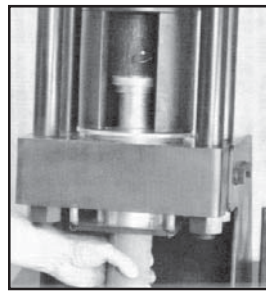
3a. If required, place spacer plate around dies. Reference hose/die selection charts on pages N5-N8.



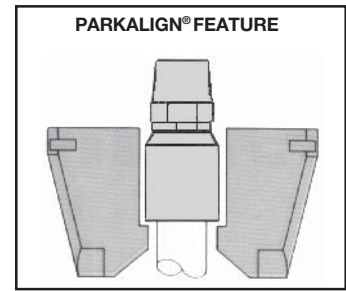
4. Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



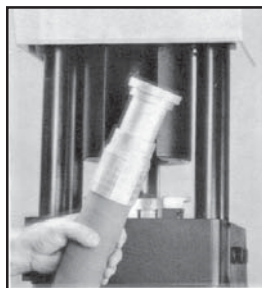
5. Insert the front half of the split die ring aligning the pin in the back half with the hole in the front half.



6. Position hose in dies from below.



6b. Rest bottom of coupling on die step using PARKALIGN® feature.



7. Turn on the pump by depressing the "ON" switch. Pull the valve handle forward to bring the pusher down for crimping. When the split die ring contacts the base plate, the crimp is complete. Push the valve handle back to lift the pusher, open the dies, and release the finished assembly.

8. You do not have to remove any tooling to remove or insert straight fittings. The front half of the split die ring and the front die train must be removed to insert and remove bent tube fittings.

Note the following when crimping 792 Hose and 79 Series Fittings:

- Use the Superkrimp for -12 and -16 size hose, or Parkrimp 2 for all sizes.
- Use 78 Series (olive drab) dies, part number: 83C-L12, 83C-L16, and 83C-L20.
- Same crimp procedure and crimp diameters as 78C hose and fittings (see table).
- After crimping, a slight bell (below the hex) will form to allow for cover expansion. This is most prevalent with -12 size hose.

79 Series Fittings		
792 Hose Size	Min./Max. Crimp Diameter	Hose Insertion Depth
-12	1.420/1.440	2-3/16
-16	1.730/1.750	2-5/16
-20	2.140/2.160	2-13/16

Note: See page N28 for Parkrimp crimp diameters.

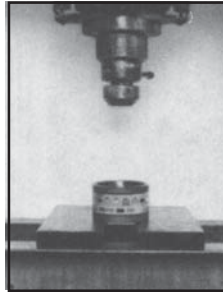
Note: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Note: Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

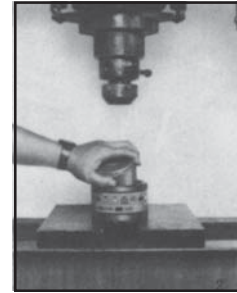
Parkrimp Hydraulic Press Kit Assembly Instructions



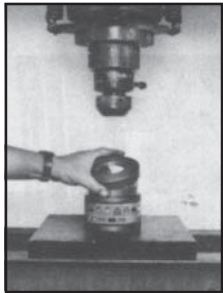
1. Place the hose next to the fitting shell and mark the length of the shell onto the hose or mark length by use of table on page N28. Push hose into the fitting until the mark on the hose is even with the end of the shell (lubricate hose if necessary).



2. Position the die bowl assembly on the press, using two supports if necessary. Leave a space between the supports for insertion of the hose and fitting from the bottom.



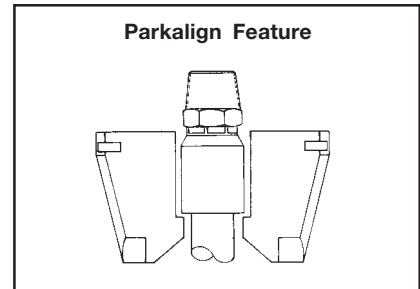
3. Insert the proper size die set into the bowl assembly.
Note: Die sets are color coded by size and have the dash size stamped on the top.



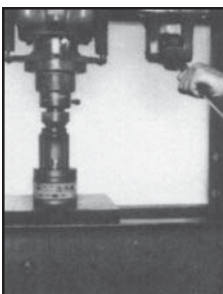
4. Place die ring on top of the dies with the flat side up. See decal on die bowl to the proper die ring.



5. Center the pusher on the die ring and locate under the cylinder of the press.



6. Position hose in dies from below using PARKALIGN® feature.



7. Activate the press to crimp fitting to hose. When die ring contacts bowl, crimp is complete.



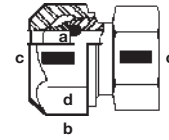
8. Deactivate the press and remove the finished assembly. You do not have to remove dies for straight fittings. Die ring must be removed for most bent tube fittings.

Note: See page N28 for Parkrimp crimp diameters.

Ferrul-Fix 26 Series Fitting (1T126) Assembly Instructions

1T126 Fitting Installation Instructions

1. Cut the tube off squarely next to the hose fitting. At least 7/8" straight length is required and the outside diameter of the tube should be smooth and free from deep lengthwise scratches.
2. To prevent cutting the inside of the O-ring, smoothly chamfer the outside diameter of the cut end 15° to 30°. Deburr the inside diameter.
3. Remove the nut, compression sleeve, and O-ring from the fitting and lubricate the O-ring with a lubricant that is compatible with the refrigerant used in the system.
4. Place the lubricated O-ring in the counterbore of the fitting.
5. Slip the compression sleeve, small end, into the nut and assemble the nut on the fitting fingertight. Make sure the compression sleeve is not cocked in the nut. Back the nut off 1/6 to 1/3 turn (one to two hex flats).
6. Insert the chamfered tube end through the nut into the fitting. If high resistance is felt when the end of the tube contacts the O-ring, remove the tube. The end of the tube may require a larger chamfer and/or the O-ring may require more lubrication on the inside diameter. Repeat the previous steps.
7. (a) Make sure the tube is bottomed in the fitting,
(b) Tighten the nut finger tight,
(c) Mark the fitting and nut hex indicating the starting point (see illustration), and
(d) Wrench tighten the nut 1 to 1-1/6 turns (6 to 7 hex flats).
8. Later, if it is ever necessary to loosen the connection, re-assemble the nut 1/6 turn (one hex flat) after finger tight.



CRIMP DIAMETERS

Crimp Diameters*										
Use	HY Series Dies	26 Series Dies	26 Series Dies	43 Series Dies	43 Series Dies	70 Series Dies	71 Series Dies	73 Series Dies	78 Series Dies	79 Series Dies
Fittings Series	HY Series	26 Series	26 Series	43 Series	43 Series	70 Series	71 Series	73 Series	78 Series	79 Series
Hose	AX & BXX	213, 225 & 293	SS25, 201, 206, 261, 235, 266, 274 & 296	421, 421HT, 481, 451, 451AR, 451TC, 431 & 436	301, 381, 301LT, 304, 341, 421WC, 601 & 881	701	772, 77C, & 774	731	78C	792
Hose Size										
-4	0.575 / 0.595	0.460 / 0.480	0.500 / 0.520	0.645 / 0.665	0.685 / 0.705	-	-	-	-	-
-5	-	0.520 / 0.540	0.560 / 0.580	0.710 / 0.730	0.750 / 0.770	-	-	-	-	-
-6	0.725 / 0.745	0.575 / 0.595	0.615 / 0.635	0.825 / 0.845	0.865 / 0.885	0.990 / 1.010	0.950 / 0.970	-	-	-
-8	0.830 / 0.850	0.670 / 0.690	0.710 / 0.730	0.945 / 0.965	0.985 / 1.005	1.140 / 1.160	1.100 / 1.120	-	-	-
-10	0.960 / 0.980	0.805 / 0.825	0.845 / 0.865	1.060 / 1.080	1.100 / 1.120	1.260 / 1.280	1.220 / 1.240	-	-	-
-12	1.110 / 1.130	0.915 / 0.935	0.955 / 0.975	1.245 / 1.265	1.285 / 1.305	1.395 / 1.415	1.355 / 1.375	1.420 / 1.440	1.420 / 1.440	1.420 / 1.440
-16	1.375 / 1.375	1.175 / 1.195	1.215 / 1.235	1.590 / 1.610	1.630 / 1.650	1.735 / 1.755	1.695 / 1.715	1.730 / 1.750	1.730 / 1.750	1.730 / 1.750
-20	-	1.420 / 1.440	1.460 / 1.480	1.970 / 1.990	2.010 / 2.030	-	2.025 / 2.045	2.140 / 2.160	2.140 / 2.160	2.140 / 2.160
-24	-	1.670 / 1.690	1.710 / 1.730	2.290 / 2.310	2.330 / 2.350	-	2.290 / 2.310	2.440 / 2.460	2.440 / 2.460	-
-32	-	2.160 / 2.180	2.200 / 2.220	2.735 / 2.755	2.775 / 2.795	-	2.775 / 2.795	3.025 / 3.045	3.025 / 3.045	-

* Crimp diameters for stainless steel fittings are 0.010 larger than for standard steel fittings.

HOSE INSERTION DEPTHS

Hose Size	Fitting Series															
	HY		26		43		70		71		73		78		79	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
-4	1 7/16	36,5	13/16	21	13/16	21	-	-	-	-	-	-	-	-	-	-
-5	-	-	13/16	21	15/16	24	-	-	-	-	-	-	-	-	-	-
-6	1 1/2	39,5	13/16	21	1 1/8	29	1 1/16	27	1 1/16	27	-	-	-	-	-	-
-8	1 9/16	39,5	13/16	21	1 5/16	33	1 5/16	33	1 1/4	32	-	-	-	-	-	-
-10	1 9/16	39,5	7/8	22	1 9/16	40	1 3/8	35	1 5/16	33	-	-	-	-	-	-
-12	1 5/8	39,5	7/8	22	1 1/2	38	1 1/2	38	1 7/16	37	1 7/8	48	1 7/8	48	2 3/16	56
-16	1 3/4	43,0	1	25	1 3/4	44	1	46	1 3/4	44	2	51	2	51	2 5/16	59
-20	-	-	1	25	1 7/8	48	13/16	44	1	46	2 1/2	64	2 1/2	64	2	71
-24	-	-	1 1/16	27	1 7/16	37	-	-	2 5/16	59	2 7/16	62	2 7/16	62	-	-
-32	-	-	1 1/4	32	1 9/16	40	-	-	2 7/16	62	2	71	2 7/8	73	-	-

Note: When making up hose assemblies with your Parkrimp system it is a good quality practice to follow these steps.

- First, be sure the hose has been fully inserted into the fitting. Proper hose insertion depths are listed above.
- Next, after crimping, check for the proper crimp diameter. This means, check the crimp diameter of the 1st, 50th and last hose assembly of each type and size produced. Proper crimp diameters are listed above.

Should you find crimp diameters out of tolerance, inspect each assembly made. Never allow hose assemblies with an incorrect crimp diameter to be used. Use the appropriate Parkrimp Machine Trouble-Shooting Guide to determine the cause of a problem.

If you have questions concerning the Parkrimp Hose Assembly Instructions, Products or Application of Products contained in this catalog, please call:

Parker Hose Products Division - Technical Services Department
Phone: (440) 943-5700
FAX: (440) 943-3129

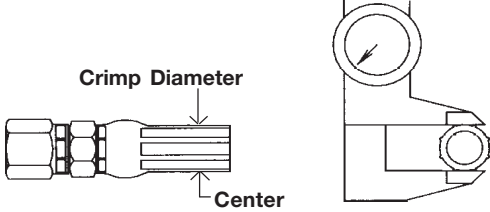
FOR PARFLEX HOSES

Hose Type	Size	Fitting Series	Crimp Die 80C-	Crimp Diameter
520N/528N	-3	55	P03	.480/.500
520N/528N	-4	55	P04	.560/.580
520N/528N	-5	55	P05	.620/.640
520N/528N	-6	55	P06	.675/.695
520N/528N	-8	55	P08	.840/.860
540N	-2	55	P02	.360/.380
540N	-3	55	P03	.480/.500
540N	-4	55	P04	.560/.580
540N	-5	55	P05	.620/.640
540N	-6	55	P06	.675/.695
540N	-8	55	P08	.840/.860
540N	-12	55	P12	1.100/1.120
558H	-2	55	P02	.360/.380
550H/55LT	-3	55	P03	.480/.500
550H/55LT	-4	55	P04	.560/.580
550H/55LT	-5	55	P05	.620/.640
550H/55LT	-6	55	P06	.675/.695
550H/55LT	-8	55	P08	.840/.860
550H/55LT	-12	55	P12	1.100/1.120
550H/55LT	-16	55	P16	1.345/1.365
580N/558N	-4	58	P04H	.668/.688
580N/588N	-6	58	P06H	.785/.805
580N/588N	-8	58	P08H	.900/.920
580N/588N	-10	58	P10H	1.000/1.020
580N/588N	-12	58	P12H	1.150/1.170
580N/588N	-16	58	P16H	1.475/1.495
560	-3	55	P03	.480/.500
560	-4	55	P04	.560/.580
560	-6	55	P06	.675/.695
560	-8	55	P08	.840/.860
560	-12	58	P12H	1.150/1.170
590	-3	55	P03	.480/.500
590	-4	55	P04	.560/.580
590	-6	55	P06	.675/.695
590	-8	55	P08	.840/.860
590	-10	58	P10H	1.000/1.020
590	-12	58	P12H	1.150/1.170
590	-16	58	P16J	1.450/1.470
D604	-4	HY	P0580	0.570/0.590
D606	-6	HY	P0740	0.730/0.750
D608	-8	HY	P0870	0.860/0.880
D610	-10	HY	P1045	1.035/1.055
D612	-12	HY	P1220	1.210/1.230
D616	-16	HY	P1525	1.515/1.535
HFS04	-4	HY	P0580	0.570/0.590
HFS06	-6	HY	P0740	0.730/0.750
HFS08	-8	HY	P0845	0.835/0.855
HFS12	-12	HY	P1130	1.120/1.140
HFS16	-16	HY	P1395	1.385/1.405
HFS204	-4	HY	P0625	0.615/0.635

Hose Type	Size	Fitting Series	Crimp Die 80C-	Crimp Diameter
HFS206	-6	HY	P0740	0.730/0.750
HFS208	-8	HY	P0870	0.860/0.880
HFS210	-10	HY	P1015	1.005/1.025
HFS212	-12	HY	P1150	1.140/1.160
HFS216	-16	HY	P1450	1.440/1.460
HTB04	-4		Contact Parflex	
HTB06	-6	43	A06	0.865/0.885
HTB08	-8	43	A08	0.985/1.005
HTB10	-10	43	A10	1.100/1.120
HTB12	-12	43	A12	1.285/1.305
HTB16	-16	43	A16	1.630/1.650
M806	-6	43	M0850	0.840/0.860
M808	-8	43	M1010	1.000/1.020
M810	-10	43	M1170	1.160/1.180
PSH	-10	58	P10H	1.000/1.020
PSH	-12	58	P12H	1.150/1.170
PSH	-16	58	P16H	1.475/1.495
HPSH	-16	58	P16J	1.450/1.470
MSH	-5	MS	M05	.535/.555
MSH	-6	MS	M06	.640/.660
PDH	-2	58	P02H	.395/.415
PTH	-3	92	T05	.450/.470
919	-4	91N	T04N	.335/.355
919	-5	91N	T05N	.385/.405
919	-6	91N	T06N	.470/.490
919	-8	91N	T08N	.565/.585
919	-10	91N	T10N	.665/.685
919	-12	91N	T12N	.790/.810
919	-16	91N	T16N	1.045/1.065
919	-20	91	T20N	1.415/1.435

Note: This Specification Does Not Cover 90 Series Steel Fittings

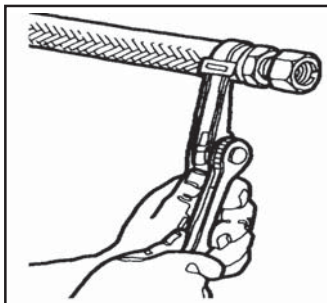
518C	-4	55	P04J	.535/.555
518C	-5	55	P05	.630/.640
510A/518C	-6	55	P06	.675/.695
510A/518C	-8	55	P08	.840/.860
518C	-12	55	P12	1.100/1.120
518C	-16	55	P16	1.345/1.365



Notes:

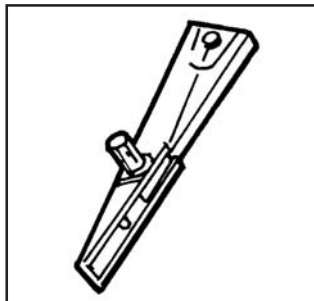
1. The information covered on this page pertains to steel, stainless and brass hose fittings. The Parkrimp 2 and Superkrimp machines are necessary for crimping -12 & up stainless steel fittings and the 93 series product. Refer to the tooling installation instructions in this catalog.
2. Crimp diameter roundness shall not vary by more than .010".
3. Crimp diameter are measured in the center to the crimp area.
4. Use only Dilver Die Ring when crimping Parflex hose fittings.
5. Parflex Division reserves the right to alter crimp specifications.

Firesleeve Accessories



FSC Clamp

Used to attached firesleeve around socket on hose sizes with a 2" maximum O.D.



FST-711617 Clamping Tool

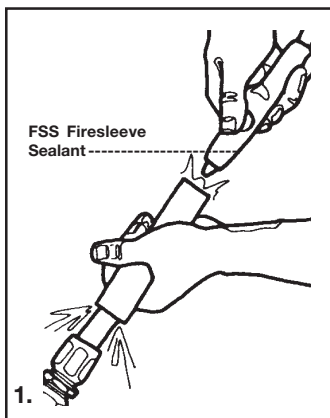
Used to secure FSC clamp.



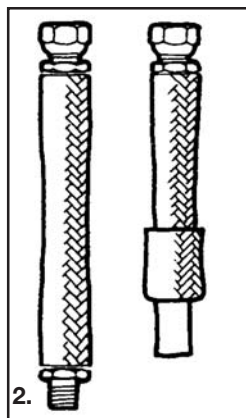
FSS Firesleeve Sealant

Keeps ends of firesleeve from fraying - for neater, longer lasting installation.

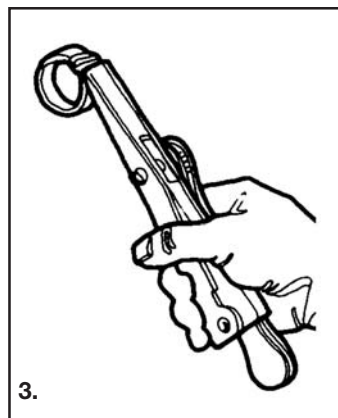
Firesleeve Assembly Instructions



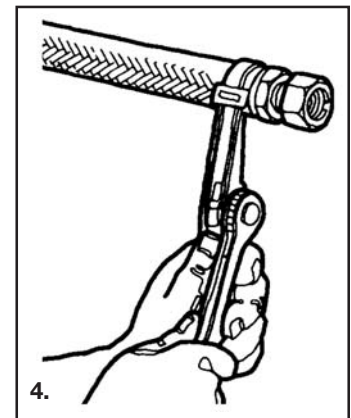
1. Assemble one end fitting on hose. Cut firesleeve to same length as hose. Cover approximately 1" of each end of firesleeve with FSS sealant and allow to dry.



2. Push firesleeve back from cut end of hose and assemble the second end fitting. Then pull firesleeve completely over both sockets.

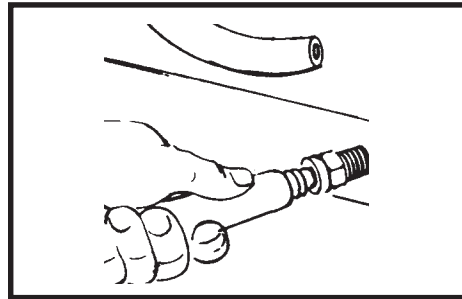
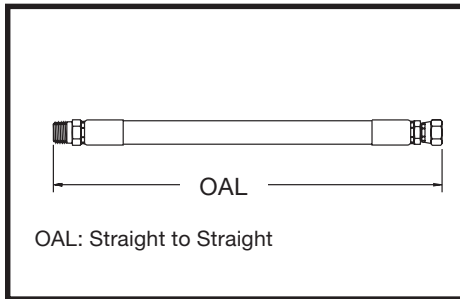


3. Insert tail of FSC clamp into FST-711617 clamping tool.



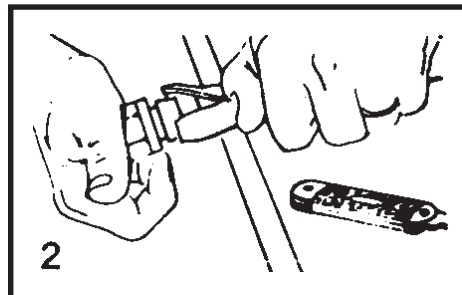
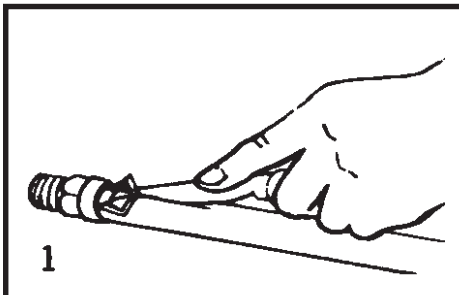
4. Position clamp around middle of socket and tighten with tool. Bend end of band back over buckle. Repeat on other end. Repair any scuffs or abrasions in firesleeve with FSS sealant.

Push-Lok 82 Series Assembly Instructions



1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) by use of the fitting data table.
2. Properly measure and mark hose. Cut hose squarely with a Parker Push-Lok cut-off tool or a sharp knife.
3. Lubricate the Push-Lok fitting, hose I.D., or both with light oil or soapy water only — DO NOT USE HEAVY OIL OR GREASE.
4. Insert fitting into hose until first barb is in the hose.
5. Place end fitting against a flat object such as a work bench or wall. Grip hose approximately one inch from end and push with a steady force until the end of the hose is covered by the yellow plastic cap.

Push-Lok 82 Series Disassembly Instructions

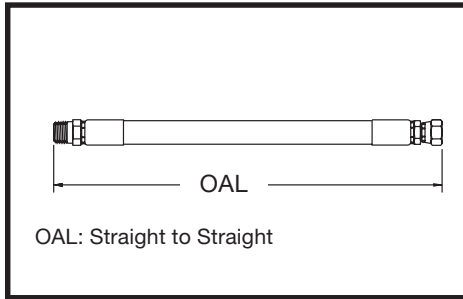


1. Leave fitting in place, and cut hose approximately one inch lengthwise from the yellow plastic cap.
IMPORTANT: Be careful not to nick barbs when cutting hose.
2. Grip hose firmly and give it a sharp downward tug away from the fitting for disassembly.

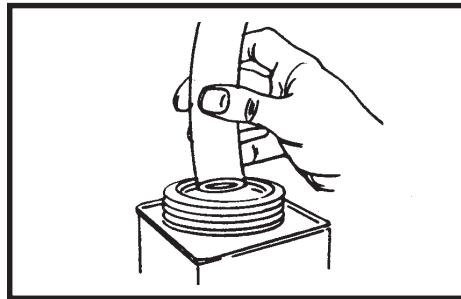
Caution: Insert the Push-Lok fitting all the way into the Push-Lok hose until the cut end is concealed by the yellow plastic cap.

Caution: Sealing integrity may be damaged by use of exterior clamps.

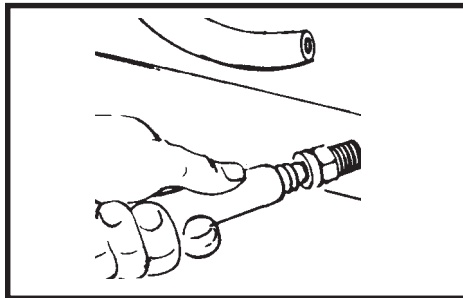
88 Series Assembly Instructions



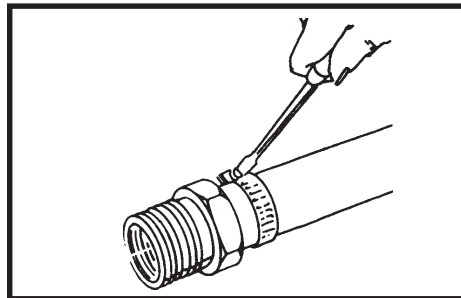
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) by use of the fitting data table. Properly measure and mark hose. Cut hose cleanly and squarely to length. Trim any exposed wire reinforcement to prevent injury in service.



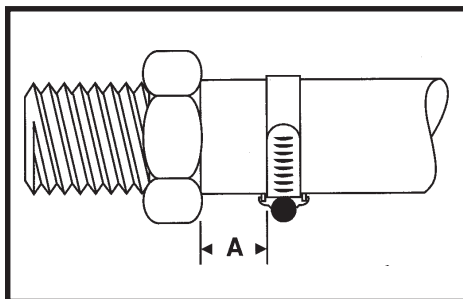
2. Slide clamp(s) onto hose and lubricate hose.



3. Push hose onto fitting until hose bottoms against stop ring or hex.

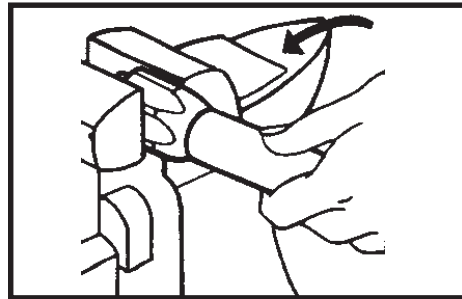
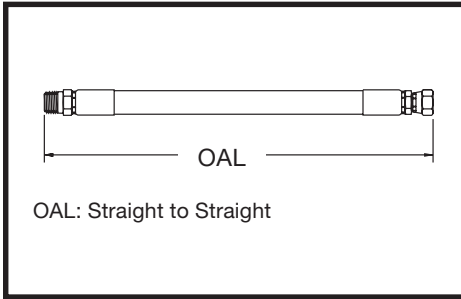


4. Position hose clamp(s) as shown and secure with a screwdriver or wrench. Maintain "A" dimensions as shown below for proper clamp positioning of both HC clamps and DB clamps.

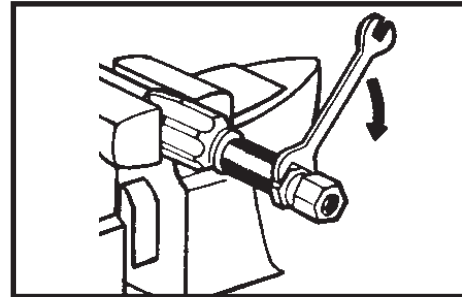
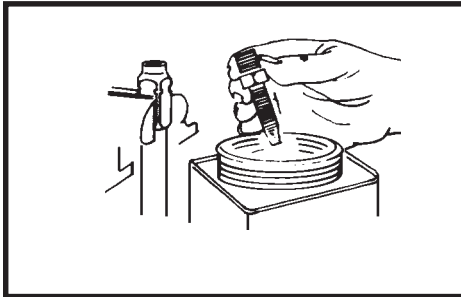


HC Clamps

**20 Series, 21 Series (Group XIII Non-Mandrel), and Group XV
 Assembly Instructions**



1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine.
2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.

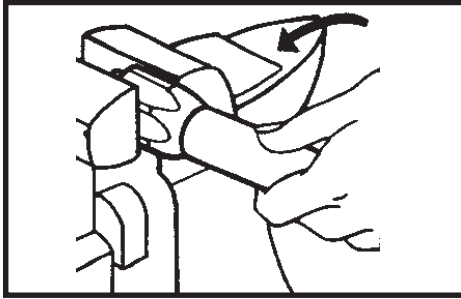


3. Oil inside of hose and nipple threads liberally.
4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

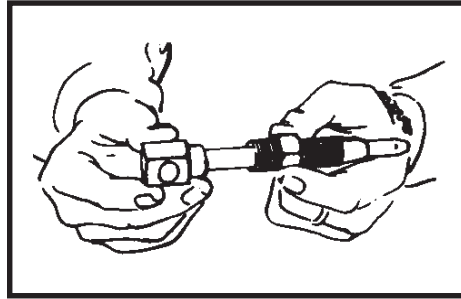
Note: DISASSEMBLE IN REVERSE ORDER

- Note:** Special instruction for 235 hoses - Use only refrigerant grade oil, Sunoco Mercury, or Sunoco Circo for lubricant.
Note: Special instruction for SS23UL hose - Use Unipar Sealant for lubricant and sealing. Patent 4,156,540. (Contact the Parker Hose Products Division - Technical Services Department for additional information.)

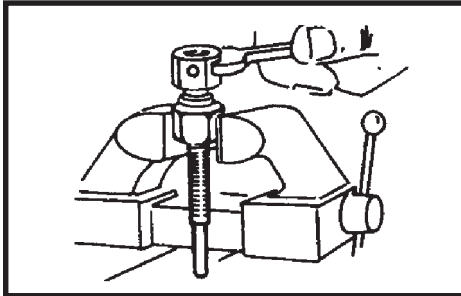
22 Series, 23 Series (Group XIII Mandrel) Assembly Instructions



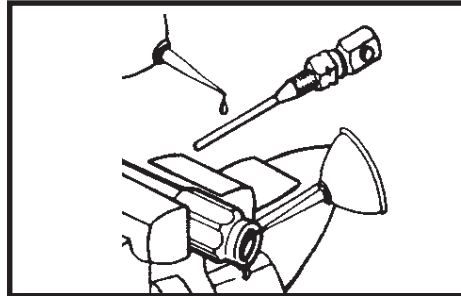
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Place socket in vice and screw in hose counter-clockwise until hose bottoms. **Back hose out 1/2 turn.**



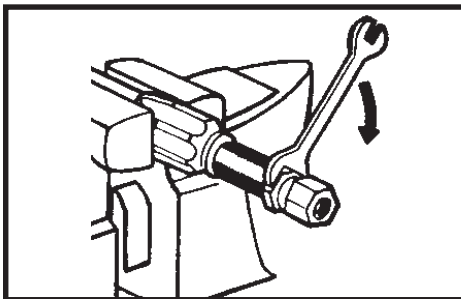
2. When assembling male pipe ends, slide nipple onto mandrel.



3. When assembling swivel ends, screw threaded mandrel all the way into interior threads of swivel and wrench tight.



4. Oil nipple threads and inside of hose with Hoze-Oil or heavy oil. **Caution:** Do not oil hose cover.



5. Push nipple into socket.
 Male ends: Thread nipple in until it bottoms against socket.
 Swivel Ends: Apply wrench to hex of assembly mandrel.
 Thread nipple clockwise into socket until clearance between nut and socket is approximately 1/32"(.794mm) to allow nut to swivel.

Remove mandrel.

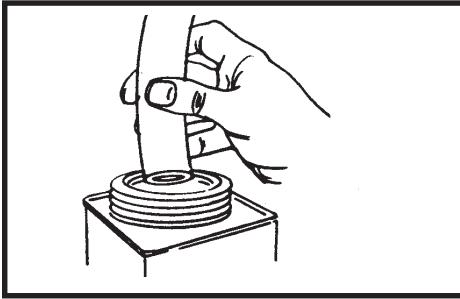
Caution: Do not attempt to assemble these fittings to the hose without using a mandrel.

Note: DISASSEMBLE IN REVERSE ORDER

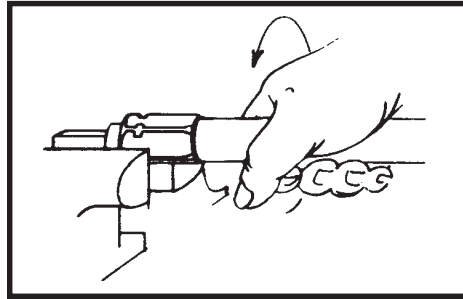
Note: Special instruction for 235 hose - Use only refrigerant grade oil, Sunoco Mercury, or Sunoco Circo for lubricant.

Note: Special instruction for SS23UL hose - Use Unipar Sealant for lubricant and sealing. Patent 4,156,540. (Contact the Parker Hose Products Division Technical Services Department for additional information.)

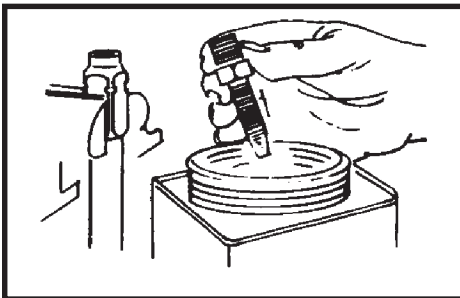
42, 30 and 34 Series Assembly Instructions



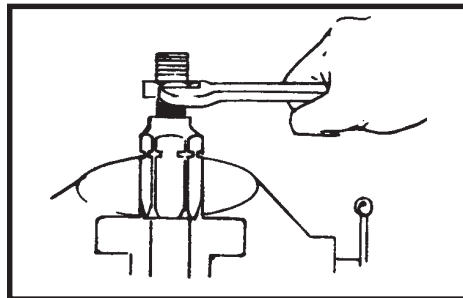
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine.
 Dip hose end into Hoze-Oil or heavy oil.



2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.



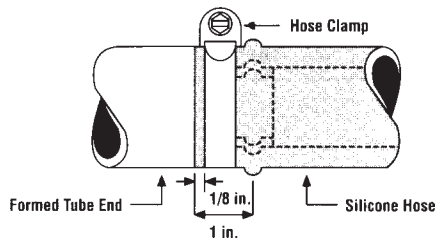
3. Dip hose end of nipple into Hoze-Oil or other heavy oil up to the hex.



4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

Note: DISASSEMBLE IN REVERSE ORDER

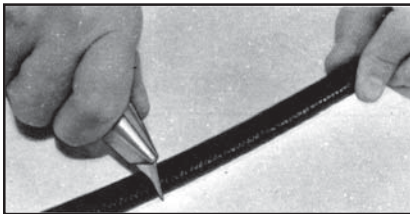
Silicon 4241, 4244 and 848 Hose Assembly Instructions



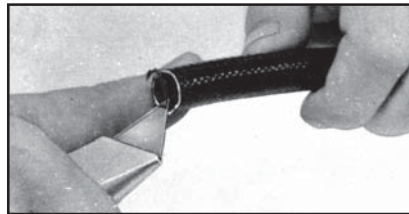
Cut hose to the desired length with a knife, push onto the formed tube end and secure with a clamp.

1. Extended tang hose clamps, or clamps with a shoe are recommended.
2. Do not use wire type clamps.
3. Hose clamps should be located as illustrated.
4. Clamping pressures-hose 1 1/2 inches and less in size, tighten to a torque of 35-40 inch pounds. Larger sizes, tighten to a torque of 45-50 inch pounds.

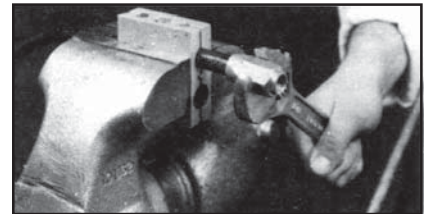
510A and 518C Reusable Hose Assembly Instructions



1. Measure accurately; then cut hose squarely to correct length, with Parker hose cutter or very sharp knife.



2. Remove any burr on the tube and lubricate inside and outside of hose with Parker Hoze-Oil.



3. Grip hose in vise blocks or Parker Hozebmler. Do not crush hose. Screw socket counterclockwise until it bottoms. Back off 1/4 turn (if you prefer, hold socket in vise and screw hose into it counterclockwise, then back off 1/4 turn).



4. Put hex portion of socket in vise.

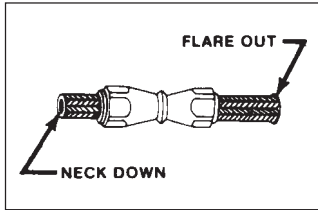


5. Lubricate nipple thread liberally with Parker Hoze-Oil.

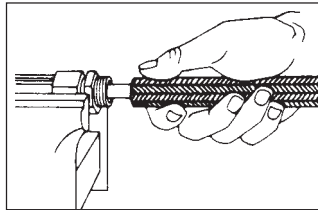


6. Screw nipple into socket, clockwise, with a wrench, on the nipple hex, until nipple bottoms against socket hex shoulder.

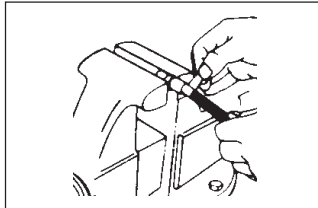
90 Series Reusable Fittings Assembly Instructions



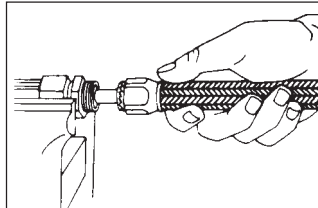
1.



2.



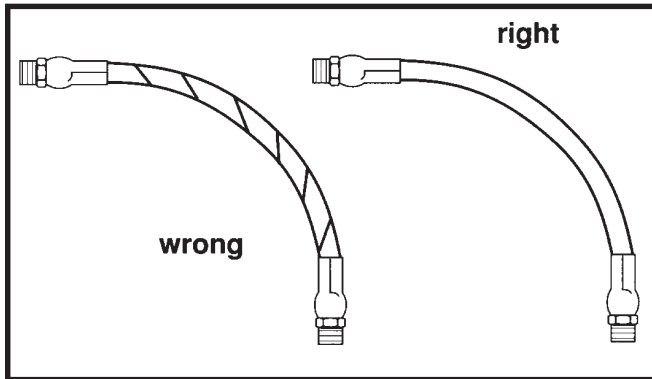
3.



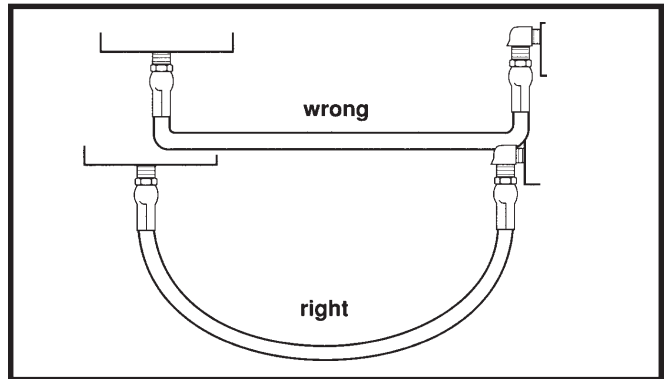
4.

1. Wrap hose with masking tape at cutoff point. Cut squarely to length through taped area with a sharp cutoff wheel or fine-toothed hacksaw. Remove tape. Trim any loose wires flush with tube stock. Remove any burrs on the bore of the tube stock with a knife. To start assembly, slip two sockets over the end of the hose, back to back. (If one end of hose "necks down" use this end to start the sockets.) Position the two sockets about three inches from each end of the hose.
2. Mount nipple hex in a vise. Work the hose bore over the nipple to size the tube and to aid in separating the braid, before fitting the sleeve. Remove hose from nipple.
3. Push sleeve over end of the inner Teflon tube and under the wire braid by hand. To complete positioning of the sleeve, push hose against a flat surface. Check visually to make sure tube stock butts against the inside shoulder of the sleeve. Set the sleeve barbs into the Teflon tube by pushing a tapered punch into the end of the sleeve and tube.
4. Lubricate nipple and socket threads. For stainless steel fittings use a molybdenum disulfide base lubricant. For other materials, use Parker Hoze-Oil. Hold nipple hex in vise. Push hose over nipple with twisting motion till seated against nipple chamfer. Push socket forward, and hand-start threading of socket to nipple. Wrench tighten nipple hex until clearance with socket hex is 1/32" or less. Tighten further to align corners of of nipples and socket hexes.

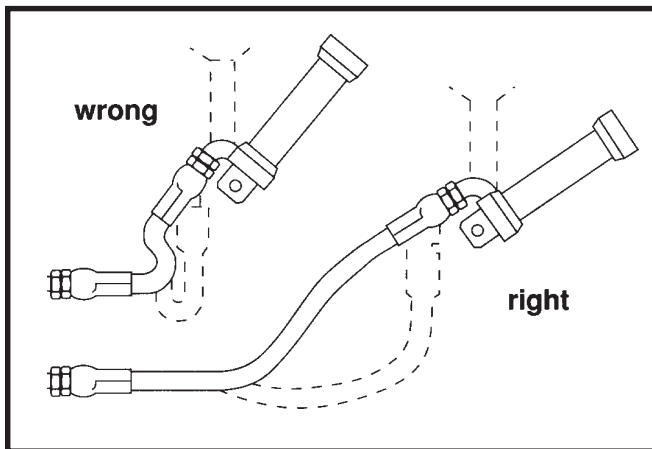
Hose Installation Tips



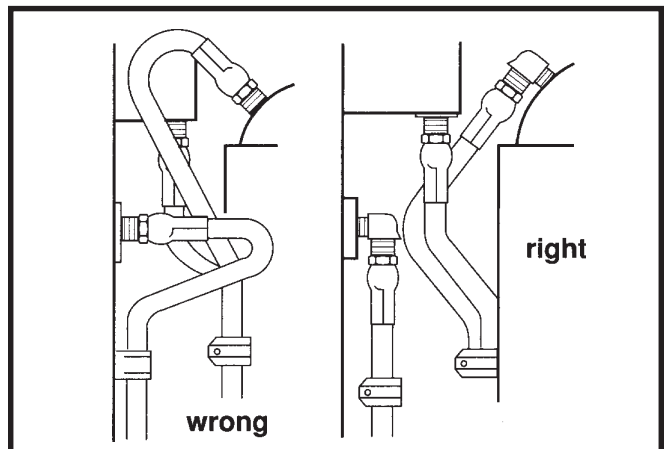
Hose is weakened when installed in twisted position. Also, pressure in twisted hose tends to loosen fitting connections. Design so that machine motion produces bending rather than twisting.



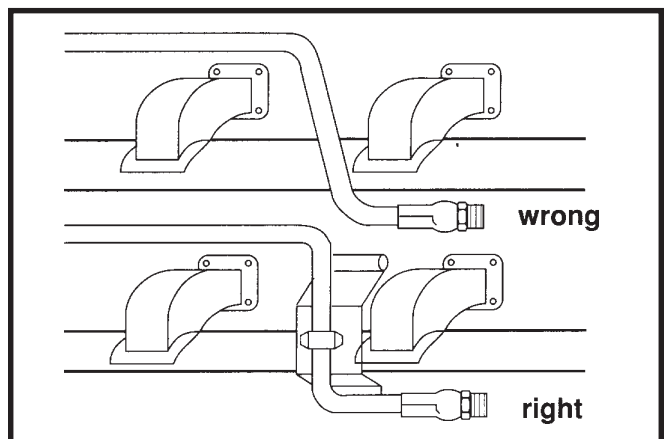
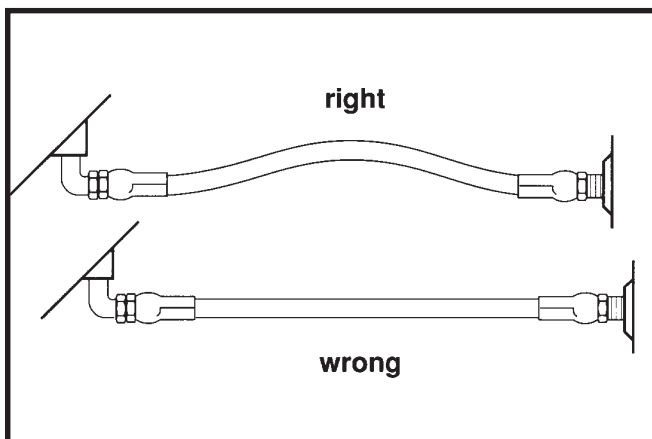
Ample bend radius should be provided to avoid collapsing of line and restriction of flow. Exceeding minimum bend radius will greatly reduce hose assembly life.



When hose assembly is installed in a flexing application, remember that metal hose fittings are not part of the flexible portion. Allow ample free length for flexing.



Use elbows or other adapters as necessary to eliminate excess hose length and to insure neater installation for easier maintenance. And, when properly routing, use clamps to secure the hose in its proper position.



Ferrul-Fix

Fast, on-the-job repair for ruptured bent tube hose assemblies and power steering lines.

The life of the combination tube-hose assembly is often limited to the service life of the hose alone. A replacement assembly may not be available, some equipment dealers are unable to stock all of the many odd tube configurations.

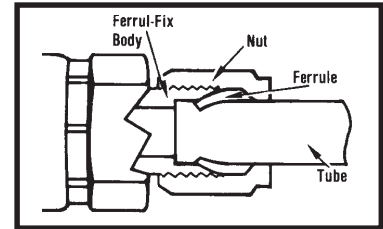
Parker FERRUL-FIX, a field attachable, reusable hose end fitting, now makes it possible to salvage the bent tube section of the original assembly for replacement. Most important, it gets you back in operation FAST!

- Gets you back in operation fast - No costly delays while replacement assemblies are rushed from the factory.
- Lets you reuse expensive bent tube ends with Parker Reuable Hose fittings - You can replace the hose at a fraction of the cost of complete assembly.
- Eliminates the need for emergency brazing or welding in the field - Ferrul-Fix can be assembled without special tools or equipment when using Parker Reuable Hose fittings.

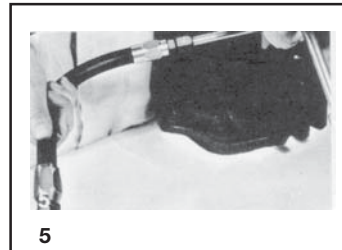
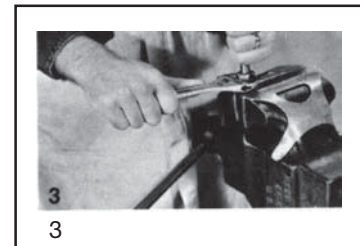
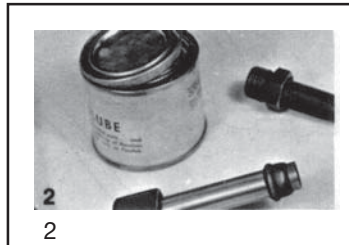
3-Piece Design - Body, nut and ferrule. Wedging action of ferrule, when drawn down by nut, forms seal between body and ferrule, while cutting edge of ferrule "bites" into tube wall forming another positive seal.

Visible Bite - Extent of bite at cutting edge of ferrule is completely visible when fitting is disassembled, an important safety feature. Self-centering action assures even bite around circumference of tube.

Parkerized Finish - Ferrul-Lok fittings have the Parkerized black finish, providing "built-in" lubrication which reduces wrench torque required.



Ferrul-Fix Installation Instructions



1. Cut the formed tube off squarely next to the permanent hose fitting. Lightly deburr the end of the tube internally and externally.
2. Disassemble the Ferrul-Fix fitting, and lubricate threads and both ends of the ferrule with Parker Ferulube.
3. Slide nut and ferrule onto tubing, with the long, straight end of the ferrule pointing toward the tube end.
4. Insert tube end into the Ferrul-Fix body until it bottoms against the shoulder. Slide ferrule inside body, and screw nut down finger tight.
5. Wrench nut down 1-3/4 turns to preset the ferrule.
6. Disconnect nut and inspect lead edge of ferrule to make certain that the biting edge has turned up a shoulder to a height of at least 50% of the ferrule and completely around the tube.
7. Assemble Ferrul-Fix fitting to hose. Refer to assembly instructions listed in appropriate fittings section. Do not assemble to hose before steps 1-6.
8. Reassemble tubing into Ferrul-Fix end and turn nut down easily until a sudden increase in force is evident. Turn bent tube to proper position if required. Using two wrenches, one on the fitting nipple hex and the other on the nut, tighten nut an additional 1/6 turn (one wrench flat).

Note: To order Ferrul-Fix fitting only (without nut and ferrule), use 21N20-10-10. Nut only 111-10, Ferrule only 110-10. (-10 is for 5/8" O.D. tube)

Standards & Specifications

Offer of Sale

NTA Brass Interchanges

Stratoflex/Parker Interchanges

Air Brake (AB) Brass Interchanges

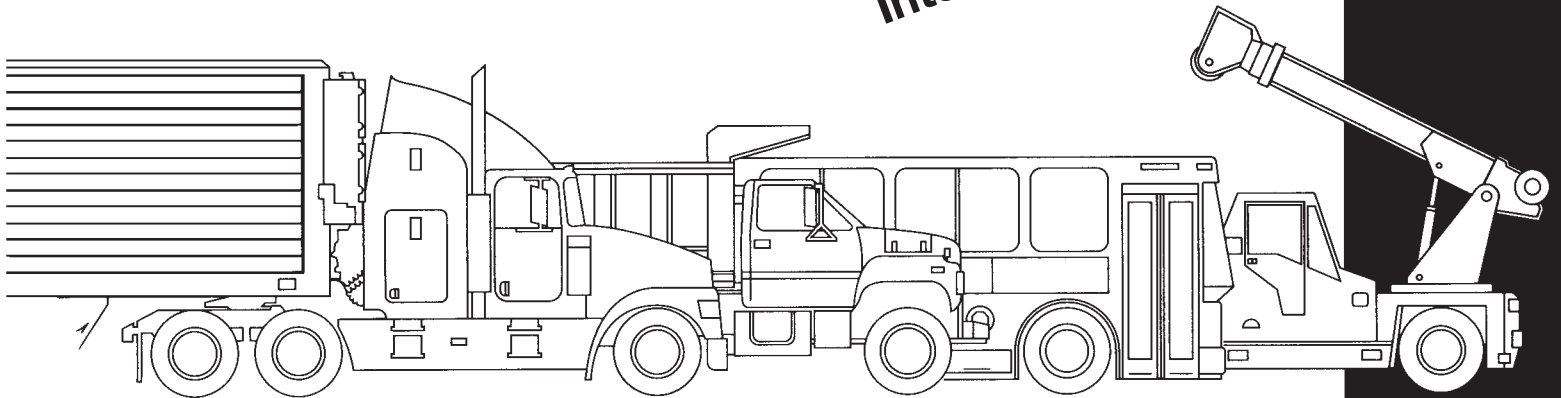
Air Brake Hose Interchanges

Terms & Conditions of Sale

Warranty

Safety Guide

Safety Relief Valve Interchanges



General Description **pg. 02**

Safety Guide **pg. 03**

Standards & Specifications **pg. 06**

End Fitting Size Chart **pg. 012**

Offer of Sale **pg. 013**



Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories

Parker Publication No. 4400-B.1

Revised: May, 2002

DANGER: Failure or improper selection or improper use of hose, fittings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of hose, fittings, or related accessories include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while paint or flammable liquid spraying.

Before selecting or using any Parker Hose or fittings or related accessories, it is important that you read and follow the instructions below.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) hose (including all rubber and/or plastic products commonly called “hose” or “tubing”), fittings (including all products commonly called “fittings” or “couplings” for attachment to hose), and related accessories (including crimping and swaging machines and tooling). This safety guide is a supplement to and is to be used with, the specific Parker publications for the specific hose, fittings and related accessories that are being considered for use.

1.2 Fail-Safe: Hose and hose assemblies can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the hose or hose assembly will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person that is responsible for selecting or using hose and fitting products. Do not select or use hose and fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

1.4 User Responsibility: Due to the wide variety of operating conditions and uses for hose and fittings, Parker and its distributors do not represent or warrant that any particular hose or fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the hose and fitting.
- Assuring that the users requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the hose and fittings are used.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, for telephone numbers of the appropriate technical service department.

2.0 HOSE AND FITTING SELECTION INSTRUCTIONS

2.1 Electrical Conductivity: Certain applications require that a hose be nonconductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting hose and fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

For applications that require hose to be electrically nonconductive, including but not limited to applications near high voltage

electric lines, only special nonconductive hose can be used. The manufacturer of the equipment in which the non-conductive hose is to be used must be consulted to be certain that the hose and fittings that are selected are proper for the application. Do not use any Parker hose or fitting for any such application requiring non-conductive hose, including but not limited to applications near high voltage electric lines, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the hose is both orange color and marked “nonconductive,” and (iii) the manufacturer of the equipment on which the hose is to be used specifically approves the particular Parker hose and fitting for such use.

The electrical conductivity or nonconductivity of hose and fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the hose and the fittings, manufacturing methods (including moisture control), how the fittings contact the hose, age and amount of deterioration of damage or other changes, moisture content of the hose at any particular time, and other factors.

Parker manufactures a special hose for conveying paint in airless paint spraying applications. This hose is labeled “Electrically Conductive Airless Paint Spray Hose” on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge buildup which occurs in all airless paint spraying. Do not use any other hose, even if electrically conductive, for airless paint spraying. Use of any other hose or failure to properly connect the hose can cause a fire or an explosion resulting in death, personal injury, and property damage.

Parker manufactures a special hose for certain compressed natural gas (CNG) applications where static electricity buildup may occur. Parker CNG hose assemblies comply with AGA Requirements 1-93, “Hoses for Natural Gas Vehicles and Fuel Dispensers”. This hose is labeled “Electrically Conductive for CNG Use” on its layline and on its packaging. This hose must be properly connected to Parker fittings and properly grounded in order to dissipate dangerous static charge buildup which occurs in, for example, high velocity CNG dispensing or transfer. Do not use any other hose, even if electrically conductive, for CNG transfer where static charge buildup may occur. Use of any other hose in such application or failure to properly connect this hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against dangerous gas permeation through the hose wall. See section 2.6, Permeation, for more information.

Parker CNG hose is intended for dispenser and vehicle use at maximum temperature of 180°F. Parker CNG hose should not be used in confined spaces or areas exceeding 180°F. Final Assemblies must be tested for leaks. **Caution:** Matches, candles, open flame or other sources of ignition shall not be used for this purpose. Leak check solutions should be rinsed off after use. Special care should be taken to ensure the hose is not kinked, twisted, torque, exposed to abusive environmental conditions specified in Section 2.9, or exceed the pressure requirements specified in Section 2.2, "Pressure". Hose assemblies should be tested on at least a monthly basis per Section 4.2 "Visual Inspection Hose/Fitting".

Recommended procedures are to pressurize the hose and check for leaks and to visually inspect the hose for damage. Hose assemblies should be tested on a monthly basis for conductivity per AGA 1-93.

- 2.2 Pressure:** Hose selection must be made so that the published maximum recommended working pressure of the hose is equal to or greater than the maximum system pressure. Surge pressures in the system higher than the published maximum recommended working pressure will cause failure or shorten hose life. Do not confuse burst pressure or other pressure values with working pressure and do not use burst pressure or other pressure values for this purpose.
- 2.3 Suction:** Hoses used for suction applications must be selected to insure that the hose will withstand the vacuum and pressure of the system. Improperly selected hose may collapse in suction application.
- 2.4 Temperature:** Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the hose. Temperatures below and above the recommended limit can degrade hose to a point where a failure may occur and release fluid. Care must be taken when routing hose near hot objects (e.g. manifolds) to properly insulate and protect the hose.
- 2.5 Fluid Compatibility:** Hose selection must assure compatibility of the hose tube, cover, reinforcement, and fittings with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis.
- 2.6 Permeation:** Permeation (that is, seepage through the hose) will occur from inside the hose to outside when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, fuel oil, natural gas, or freon). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use hose if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a hose even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the hose assembly.
- Permeation of moisture from outside the hose to inside the hose will also occur in hose assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.
- 2.7 Size:** Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.
- 2.8 Routing:** Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to hose collapse).
- 2.9 Environment:** Care must be taken to insure that the hose and fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight,

heat, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

- 2.10 Mechanical Loads:** External forces can significantly reduce hose life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adapters may be required to insure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.
- 2.11 Physical Damage:** Care must be taken to protect hose from wear, snagging and cutting, which can cause premature hose failure.
- 2.12 Proper End Fitting:** See instructions 3.2 through 3.5 below. These recommendations may be substantiated by testing to industry standards such as SAE J517.
- 2.13 Length:** When establishing a proper hose length, motion absorption, hose length changes due to pressure, and hose and machine tolerances must be considered.
- 2.14 Specifications and Standards:** When selecting hose and fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.
- 2.15 Hose Cleanliness:** Hose components may vary in cleanliness levels. Care must be taken to insure that the assembly selected has an adequate level of cleanliness for the application.
- 2.16 Fire Resistant Fluids:** Some fire resistant fluids require the same hose as petroleum oil. Some use a special hose, while a few fluids will not work with any hose at all. See instructions 2.5 and 1.5. The wrong hose may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.
- 2.17 Radiant Heat:** Hose can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the hose.
- 2.18 Welding or Brazing:** When using a torch or arc-welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire resistant materials. Flame or weld spatter could burn through the hose and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including hose fittings and adapters, above 450°F (232°C) such as during welding, brazing, or soldering may emit deadly gases.
- 2.19 Atomic Radiation:** Atomic radiation affects all materials used in hose assemblies. Since the long term effects may be unknown, do not expose hose assemblies to atomic radiation.
- 3.0 HOSE AND FITTING ASSEMBLY AND INSTALLATION INSTRUCTIONS**
- 3.1 Pre-Installation Inspection:** Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, catalog number, and length. In addition, the hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.
- 3.2 Hose and Fitting Assembly:** Do not assemble a Parker fitting on a Parker hose that is not specifically listed by Parker for that fitting unless authorized in writing by the chief engineer of the appropriate Parker division. Do not assemble a Parker fitting on another manufacturer's hose or a Parker hose on another manufacturer's fitting unless (i) the chief engineer of the appropriate Parker division approves the assembly in writing, and (ii) the user verifies the assembly and the application through analysis and testing. See instruction 1.4 above.
- The Parker published instructions must be followed for assembling the fittings on the hose. These instructions are provided in the Parker fitting catalog for the specific Parker fitting being used.
- 3.3 Related Accessories:** Do not crimp or swage any Parker hose or fitting with anything but the proper listed Parker swage or crimp machine and dies and in accordance with Parker published instructions. Do not crimp or swage another manufacturer's hose fitting with a Parker crimp or swage die unless authorized in writing by the chief engineer of the appropriate Parker division.
- 3.4 Parts:** Do not use any Parker hose fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker

mating parts, in accordance with Parker published instructions, unless authorized in writing by the chief engineer of the appropriate Parker division.

- 3.5 Reusable/Permanent:** Do not reuse any reusable hose product that has blown or pulled off a hose. Do not reuse a Parker permanent (that is, crimped or swaged) hose fitting or any part thereof.
- 3.6 Minimum Bend Radius:** Installation of a hose at less than the minimum listed bend radius may significantly reduce the hose life. Particular attention must be given to preclude sharp bending at the hose/fitting juncture.
- 3.7 Twist Angle and Orientation:** Hose installations must be such that relative motion of machine components does not produce twisting.
- 3.8 Securement:** In many applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to insure such restraints do not introduce additional stress or wear points.
- 3.9 Proper Connection of Ports:** Proper physical installation of the hose requires a correctly installed port connection insuring that no twist or torque is transferred to the hose.
- 3.10 External Damage:** Proper installation is not complete without insuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.
- 3.11 System Checkout:** All air entrapment must be eliminated and the system pressurized to the maximum system pressure and checked for proper function and freedom from leaks. Personnel must stay out of potential hazardous areas while testing and using.
- 3.12 Routing:** Hose should be routed in such a manner so if a failure does occur, oil mist will not come into contact with hot surfaces, open flame, or sparks, and the chance of personal injury is minimized.

4.0 HOSE AND FITTING MAINTENANCE INSTRUCTIONS

- 4.1** Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.7, listed below.
- 4.2 Visual Inspection Hose/Fitting:** Any of the following conditions require immediate shut down and replacement of the hose assembly:
- Fitting slippage on hose;
 - Damaged, cut or abraded cover (any reinforcement exposed);
 - Hard, stiff, heat cracked, or charred hose;
 - Cracked, damaged, or badly corroded fittings;
 - Leaks at fitting or in hose;
 - Kinked, crushed, flattened or twisted hose; and
 - Blistered, soft, degraded, or loose cover.
- 4.3 Visual Inspection All Other:** The following items must be tightened, repaired or replaced as required:
- Leaking port conditions;
 - Remove excess dirt buildup;
 - Clamps, guards, shields; and
 - System fluid level, fluid type and any air entrapment.

4.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.

4.5 Replacement Intervals: Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See instructions 1.2 above.

4.6 Inspecting a Pressurized System: Hydraulic power is accomplished by utilizing high-pressure fluids to do work. Hoses, fittings, and hose assemblies all contribute to doing work by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the hoses transporting the fluids. From time to time, hose assemblies will fail. Usually these failures are the result of some form of misapplication, abuse, or simply wear. When hoses fail, generally the high-pressure fluids inside escape in some sort of stream which may or may not be visible to the user. Under no circumstances should the user attempt to locate the leak by "feeling" with their hands or any other part of their body. High-pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the hose assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the hose assembly. Many times check valves, etc., are employed in a system and can cause pressure to remain in a hose assembly even when pumps or equipment are not operating. Tiny holes in the hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the hose assembly may be examined safely.

Once the pressure has been reduced to zero, the hose assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a hose assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for hose assembly replacement information.

Never touch or examine a failed hose assembly unless it is obvious that the hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

4.7 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

MSDS'S (Available upon request.)

Federal OSHA regulation 29 CFR 1910.1200 requires that we transmit to our customers Material Safety Data Sheets for all material covered under the law. If you are an employer in SIC 20-39 who has not yet received them, you are required to obtain them from us and provide the information to employees as directed in Section (b) of the regulation. Please contact the Hose Products Division - Technical Services Department: (PH) 440- 943-5700 (FAX) 440- 943-3129.

Many products listed in this catalog meet SAE, JIC, JIS, MSHA, Coast Guard, UL, and DOT Standards listed in this section. For standards not covered in this listing, consult Technical Services Department, Hose Products Division.

STANDARD	PARKER PART NUMBER	DESCRIPTION	STANDARD	PARKER PART NUMBER	DESCRIPTION
SAE STANDARDS - HOSE FITTINGS			SAE STANDARDS - ADAPTERS CONTINUED		
J516	ALL HOSE FITTINGS USED WITH HOSES LISTED UNDER SAE J517 STANDARD.		J514, 070502	5603	37° FLARE/PIPE
SAE STANDARDS - ADAPTERS			J514, 070601	0353	37° FLARE/37° FLARE BULKHEAD
J512, 010102	0104	45° FLARE/PIPE	J514, 070701	2343	37° FLARE/37° FLARE BULKHEAD
J512, 010103	0204	45° FLARE/PIPE	J514, 070801	3353	37° FLARE/37° FLARE BULKHEAD
J512, 010202	2104	45° FLARE/PIPE	J514, 090109	05CP	STR. THRD. O-RING PLUG
J512, 010203	2204	45° FLARE/PIPE	J514, 070202	2103	37° FLARE/37° FLARE
J512, 010101	0404	45° FLARE/45° FLARE	J514, 070603	0253	37° FLARE/37° FLARE
J512, 040105	1404	45° FLARE/45° FLARE	J514, 070958	533T	37° FLARE/37° FLARE
J512, 010302	3104	45° FLARE/PIPE	J514, 070959	543T	37° FLARE/37° FLARE
J512, 010220	2504	45° FLARE/STR. THRD. O-RING	J514, 071602	5703	37° FLARE/PIPE
ALL 37° FLARED HOSE ADAPTERS MEET JIC AND ASME STANDARDS.			J514, 090136	0510	STR. THRD. O-RING
J514, 070101	0303	37° FLARE/37° FLARE	J514, 090109B	05HP	STR. THRD. O-RING/HEX PLUG
J514, 070102	0103	37° FLARE/PIPE	J514, 080110	11N	FLARELESS NUT
J514, 070103	0203	37° FLARE/PIPE	J514, 080102	0111	FLARELESS ADAPTER
J514, 070109	03P	37° FLARE/PLUG	J514, 080115A	11S	FLARELESS FERRULE
J514, 070110	06B	SHORT NUT	J514, 140137	0101	PIPE NIPPLE
J514, 070112	06C	CAP NUT	J514, 140138	0202	PIPE/PIPE
J514, 070115	06S	TUBE SLEEVE	J514, 140139	0201	PIPE/PIPE
J514, 0701180	53N	LOCK NUT	J514, 140140	0102	PIPE REDUCER
J514, 070119	03L3	37° FLARE/37° FLARE	J514, 140238	2202	PIPE/PIPE
J514, 070122L	5303	37° FLARE/STR. THRD. O-RING	J514, 140239	2102	PIPE/PIPE
J514, 070122L	05L3	37° FLARE/STR. THRD. O-RING	J514, 140338	4202	PIPE/PIPE
J514, 070123	0603	37° FLARE/FLARE SWIVEL	J514, 140339	3102	PIPE/PIPE
J514, 070201	2303	37° FLARE/37° FLARE	J514, 140424	012T	PIPE/PIPE
J514, 070203	2203	37° FLARE/PIPE	J514, 140425	212T	PIPE/PIPE
J514, 070220	2503	37° FLARE/STR. THRD. O-RING	J514, 140438	022T	PIPE/PIPE
J514, 070221	3903	37° FLARE/STR. THRD. O-RING	J514, 140109P	01HP	PIPE PLUG
J514, 070302	3103	37° FLARE/PIPE	J514, 140109E	01CP	PIPE PLUG
J514, 070320	3503	37° FLARE/STR. THRD. O-RING	J514, 140237	2101	PIPE/PIPE
J514, 070321	3703	37° FLARE/37° FLARE SWIVEL	J514, 140538	212T	PIPE/PIPE
J514, 070401	033T	37° FLARE/37° FLARE	J516, 140157	0507	STR. THRD. O-RING/PIPE SWIVEL
J514, 070424	013T	37° FLARE/PIPE	J516, 140231	2207	PIPE/PIPE SWIVEL
J514, 070425	213T	37° FLARE/PIPE	J516, 140257	2507	STR. THRD. O-RING/PIPE SWIVEL
J514, 070426	023T	37° FLARE/PIPE	J516, 140357	3507	STR. THRD. O-RING/PIPE SWIVEL
J514, 070427	223T	37° FLARE/PIPE	J516, 140130	0107	PIPE/PIPE SWIVEL
J514, 070428	053T	37° FLARE/STR. THRD. O-RING	J516, 140131	0207	PIPE/PIPE SWIVEL
J514, 070429	253T	37° FLARE/STR. THRD. O-RING	J516, 140230	2107	PIPE/PIPE SWIVEL
J514, 070432	063T	37° FLARE/37° FLARE SWIVEL	J516, 140330	3107	PIPE/PIPE SWIVEL
J514, 070433	393T	37° FLARE/37° FLARE SWIVEL			
J514, 070501	033X	37° FLARE/37° FLARE			

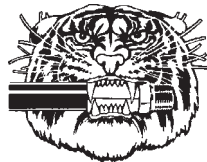
JIS B8363 CODE	PARKER END CONFIGURATION CODE	FITTING SERIES 43	FITTING SERIES 71	FITTING SERIES 78
		JIS - HOSE FITTINGS		
R	UT	X	X	
F	FU	X	X	
C	GU	X	X	
MF	MU	X	X	
S	15	X	X	X
4S	17	X	X	X
9S	19	X	X	X
H	6A			X
4H	6F			X
9H	6N			X

JIS B8363 CODE	PARKER PART NUMBER	MATES WITH END CONFIGURATION
		JIS - ADAPTERS
A1	T4HF3	FU
A2	P4HF3	GU
A3	P46HF3	UT
E1	T4EF3	FU
E2	P4EF3	GU
E3	T4VF3	FU
E4	P4VF3	GU

Parker Hose Standards are listed on page O18.

MSDS'S AVAILABLE

Federal OSHA regulation 29 CFR 1910.1200 requires that we transmit to our customers Material Safety Data Sheets for all material covered under the law. If you are an employer in SIC 20-39 who has not yet received them, you are required to obtain them from us and provide the information to employees as directed in Section (b) of the regulation.



IF YOU HAVE QUESTIONS CONCERNING THE HOSE PRODUCTS OR APPLICATION OF THE HOSE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL: PARKER HOSE PRODUCT - TECHNICAL SERVICES DEPARTMENT
PHONE: 440 / 943-5700
FAX: 440 / 943-3129

HOSE	SAE J517	SAE OTHER	DOT FMVSS 106	USCG MMT 1	DIN	DnV 2	MSHA 3	GERMAN LLOYD	UL-21 LPG
201/211	100R5	J1402 All	All						
206/4211	100R5	J1402 All	All						
213		J1402A I	All	HF					
225				HF			X		
235		J51-D		H			X		
255		J51-A2							
261		J1402 All	All						
266/5275		J1402 All	All	HF					
296		J1402 All	All						
301	100R2AT			HF		X	X		
301LT	100R2AT						X		
304									
341	100R9AT			HF			X		
381	100R2AT			HF	20 022-2SN	X	X	X	
421	100R1AT			HF		X	X		
421HT	100R1AT			HF			X		
421WC							X		
431				H			X		
436				H			X		
481	100R1AT			H	20 022-1SN	X	X	X	
601	100R3			H			X		
741				HF	20 023-4SP		X		
701					20 022-4SP		X		
77C	100R12			H		X	X		
772	100R12						X		
731					20 023-SH		X		
78C	100R13			H		X	X		
801							X		
821							X		
821FR							X		
831							X		
836							X		
881	100R4			H			X		
SS23UL									X
SS25UL									X
3286		J1402 AI	All	HF					
5219				HF			X		
919	100R14								

NOTES:

1. U.S.C.G./MMT hoses meet 46CFR56.60-25(C) for use on commercial vessels.

HF = Fuel and lube systems, hydraulic systems, vital water, non-vital water and pneumatics.

H = All except fuel and lube.

Some hoses are accepted for different pressures for F and H. Also, not all sizes are accepted for all applications. See approval bulletin #APR-004 or consult the Parker Hose Products Division, Technical Services Department, for details.

2. Det Norske Veritas (DnV) approvals are with permanent (crimp) type fittings only.

3. Hose with MSHA (Mine Safety and Health Administration) approved cover will be marked accordingly on the layline.

Agency and Specifications	Approved Parflex Products
Flame Resistance: UL94V-O UL94V-2 UL94HB MSHA IC40/24, IC40/18 USCG, 46CFR SAEJ1942	55FR, 53FR, 3CNGFR, 4CNGFR, 5CNGFR FRPE NN, NB, NR, NBR (Wall Thickness Above .033") 53FR, 55 FR 520N, 540N, 550H, 560, 590, 919 (With Fire Sleeve) 919 (With Fire Sleeve)
Dry Food Contact: FDA, CFR21 Part 177	E, PP, PV, 550H, 1038, 1041, 540P, Fast & Tite N and P, ParBarb N and P, TrueSeal™, FEP (Natural), 919, 929, 936, 960 (Natural)
Natural Gas Service: AGA/CSA IAS-U.S. 1-93	3CNG, 4CNG, 5CNG, 3CNGLT, 4CNGLT, 5CNGLT, 3CNGFR, 4CNGFR, 5CNGFR
Potable Water, Liquid Foods: NSF Standard 51* Naval Standard MIL-767C	E, GT, PP, 1038, 1041, Fast & Tite N and P, ParBarb N and P, TrueSeal™ 540P
Hydraulic Service: SAE 100R7 SAE 100R8 SAE 100R14	540N, 550H, 558H, 55FR, 55LT, 510, 510A, 518A, 518B, 518C 520N, 580N, 588N 919
International Standards: ISO (International Standards Organization) ISO 3949-1 ISO 3449-2	518B, 540N, 550H, 558H 520N, 580N, 588N
DIN (Deutsches Institut Für Normung): DIN 20-078 (excluding hex size dimensions) DIN 24951-2KT DIN 20022-1SN (performance requirements)	55 and 58 Series Metric Fittings 5158, 540N, 550H, 558H 560
Refrigeration: UL1963 R22, R502	510A-2, 510
Transportation: SAE J844 (FMVSS106)	PFT-A, PFT-B, BRAKCOIL®, DollyCoil™, Duo-Coil, SliderCoil™
Electrical Non-Conductivity: SAE J517, Pitman E-00094 Ontario Hydro, SAE J517	558H, 518B, 518C, HP8, 518A 518C, 518B, 558H, 528N, 588N
DNV: Det Norske (Norwegian) Veritas Marine Steel Ships, Mobile Offshore and Fixed Offshore Drilling Units Cert. No. P-8931, P-8932 Cert. No. P-8929, P-8930 Cert. No. P-8927, P8928 Cert. No. P-8933, P-8934 Cert. No. P-8935, P-8936 Cert. No. P-9563 Cert. No. P9564	520N, 580N, 588N, H580N 550H, 558H 540N 573X, 573XL, 575X HP, HP8 590, 593, 1032 560



1/8" 1/4" 3/8"

1/2"

3/4"

1"

1-1/4"

1-1/2"

2"

2"
-32

1-1/2"
-24

1-1/4"
-20

1"
-16

7/8"
-14

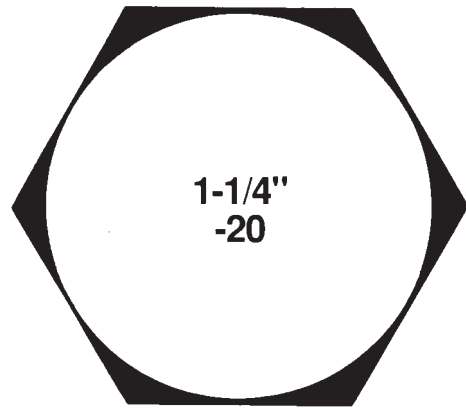
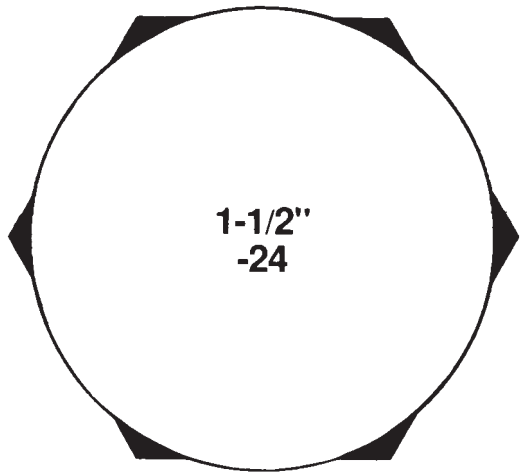
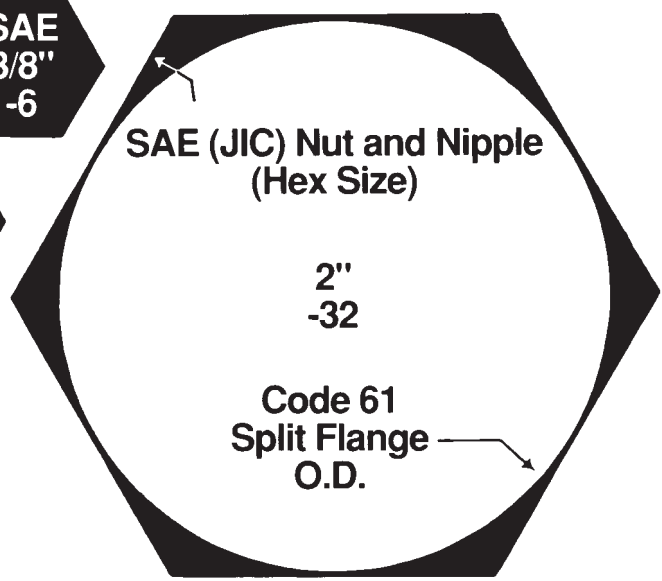
1/4" -4
SAE 3/8" -6
5/16" -5
3/8" -6

1/2" -8

5/8" -10

3/4" -12

1" -16



SAE (JIC) 37° Flare Nose Cone Sizes

Male Pipe Thread Sizes

END FITTING SIZE CHART

SAE (JIC) 37° Flare Nose Cone Sizes

SAE 45° Flare
Nose Cone Sizes

3/4" -12

5/8" -10

1/2" -8

3/8" -6

5/16" -5

1/4" -4

3/4" -12

3/8" -6

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Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Amounts not timely paid shall bear interest at the rate of 1-1/2% for each month of a portion thereof that Buyer is late in making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

3. Delivery

Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

4. Warranty

Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of 365 days from the date of shipment to Buyer, or 2,000 hours of use, whichever expires first. **THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED. NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.**

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SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.

6. Changes

Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the item sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

7. Special Tooling

A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges therefor by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer therefor. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property

Any designs, tools, patterns, materials, drawings, confidential information of equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Taxes:

Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller of if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

10. Indemnity For Infringement of Intellectual Property Rights:

Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). Seller will defend at its expense and will pay the cost of any settlement of damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgements resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.

11. Force Majeure

Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter 'Events of Force Majeure'). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulation of any government or government agency, fires, floods, delays or failures in delivery of carriers or supplies, shortages of materials and any other cause beyond Seller's control.

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Parker Hannifin Corporation

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Parker Hannifin is a leading global motion-control company dedicated to delivering premier customer service. A Fortune 500 corporation listed on the New York Stock Exchange (PH), our components and systems comprise over 1,400 product lines that control motion in some 1,000 industrial and aerospace markets. Parker is the only manufacturer to offer its customers a choice of hydraulic, pneumatic, and electromechanical motion-control solutions. Our Company has the largest distribution network in its field, with over 7,500 distributors serving nearly 400,000 customers worldwide.

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To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods. More specifically, we will design, market and manufacture products controlling motion, flow and pressure. We will achieve profitable growth through premier customer service.

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North American customers seeking product information, the location of a nearby distributor, or repair services will receive prompt attention by calling the Parker Product Information Center at our toll-free number: 1-800-C-PARKER (1-800-272-7537). In Europe, call 00800-C-PARKER-H (00800-2727-5374).

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