

SPEEDI-SLEEVE INSTALLATION INSTRUCTIONS

Selection

Correct size selection requires that three measurements be taken and averaged. Measure the diameter just ahead of the wear path (not in the track worn by the seal) at three positions: 12-6 o'clock, 2-8 o'clock and 4-10 o'clock. The average of these readings will compensate for an out-of-round shaft.



Speedi-Sleeve®

When a new seal cannot compensate for excessive damage in small diameter shafts, select a Speedi-Sleeve. This ultra-thin wear sleeve provides a snug, leak-proof fit on shafts up to 8" (203 mm) in diameter.

Compare your average diameter with the size ranges in the Speedi-Sleeve Selection Charts. When this diameter falls within a range, there is sufficient press-fit built into the sleeve to keep it properly positioned. Cement, such as a powdered metal epoxy filler, may be necessary only to fill very deep grooves or scratches.

Shaft diameters a few thousandths under the minimum may be sleeved if the Speedi-Sleeve is cemented into place. Diameters larger than the maximum can be sleeved if the shaft is first machined to a size within the cataloged range, with a finish of 125 RMS or better.

Installation

Each Speedi-Sleeve is built with a removable installation flange. Also included is a tool for easy "pull-on" installation. Pull-on installation avoids the possibility of distortion from heating or other installation methods. Speedi-Sleeve is designed to install without removing the shaft, for reduced equipment downtime.

Only a minimum of surface preparation is required. First, clean the old seal surface and file down any burrs or rough spots.

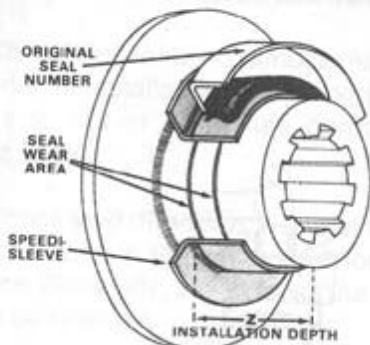
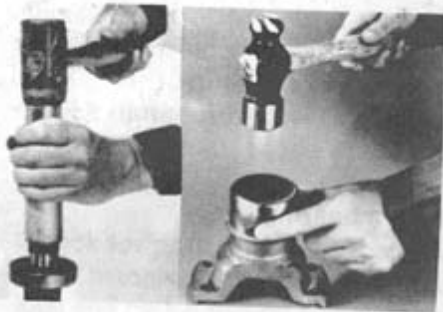
Note how far back the sleeve must be positioned to cover the old seal's wear tracks. Measure to a convenient point, or mark directly on the shaft.

Speedi-Sleeves may be installed to any depth required. Installation depth (see illustration) indicates the maximum distance from the end of the shaft that will be resurfaced when installed with the standard tool. A custom tool can easily be fabricated to make deeper installations if necessary. If a longer tool is needed, a length of tubing or pipe can be substituted if the ends are cut off squarely and deburred.

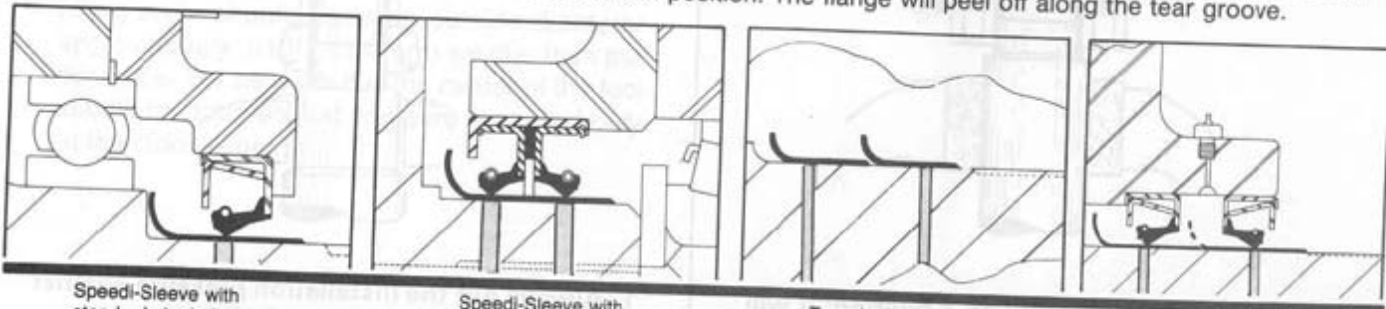
If the shaft is deeply scored, fill the groove with powdered metal epoxy filler and install the Speedi-Sleeve before the filler hardens.

Drop Speedi-Sleeve into the installation tool end so that only the flange projects. Note that the flanged end of the sleeve goes on the shaft first. Then, gently pound the center of the tool until the sleeve reaches the point which was measured. Use a wood block or large face mallet on larger sizes to avoid the possibility of caving in the back of the installation tool.

If clearance is required after installation, the Speedi-Sleeve flange can be removed easily. Prior to installation, use side cutters to cut through the flange to the tear groove (pre-cut line). Pry the flange away from the seal surface after the sleeve is in position. The flange will peel off along the tear groove.



Sleeve width . . .



Speedi-Sleeve with standard single lip seal.

Speedi-Sleeve with combination lip seal.

Two sleeves for double seal installation.

Flange removed for double seal installation.

Removal

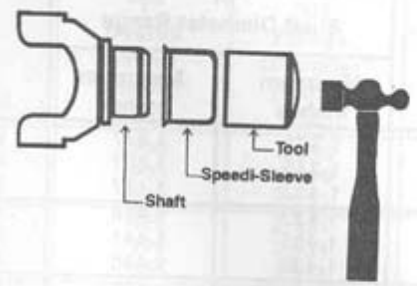
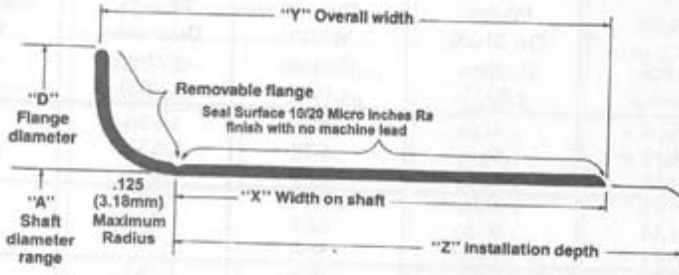
Speedi-Sleeve can be removed in a number of ways depending upon personal preference and/or shaft configuration. Suggested methods are: **1.** The application of heat will often cause the sleeve to expand sufficiently to permit removal. **2.** A pair of wire cutters may be effective to "rip" or "tear" the sleeve from the shaft, by starting at or near the flange using a twisting motion. **3.** With the flange removed, the sleeve may be stretched by employing a small ball-peen hammer to "peen" one or more lines across the full width of the sleeve.

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Passenger Cars & Light Trucks

SEALS/BEARINGS

SPEEDI-SLEEVE SIZE LISTING - INCHES



Nominal Shaft Diameter	"A" Shaft Diameter Range		Stock Number	"X" Width On Shaft (Inches ±.031)	"Y" Overall Width (Inches ±.031)	"D" Flange Diameter (Inches ±.063)	"Z" Installation Depth
	Minimum Inches	Maximum Inches					
.472	.469	.475	99049	.236	.331	.610	1.875
.500	.498	.502	99050	.250	.344	.610	2.000
.551	.547	.551	99055	.251	.389	.752	1.831
.563	.560	.566	99056	.250	.391	.750	1.831
.591	.589	.593	99059	.197	.354	.750	1.862
.625	.623	.627	99062	.313	.406	.750	2.000
.625	.623	.627	99810 *	.313	.406	.750	2.000
.630	.624	.630	99058	.315	.437	.752	2.000
.669	.667	.671	99068	.313	.433	1.063	2.000
.684	.682	.686	99060	.313	.438	.900	2.000
.706	.704	.709	99082	.315	.433	1.063	1.811
.750	.748	.752	99076	.313	.438	.945	2.000
.750	.748	.752	99811 *	.313	.438	.945	2.000
.760	.759	.761	99081	.313	.438	.938	2.000
.781	.780	.784	99080	.313	.438	.935	2.000
.787	.785	.789	99078	.313	.133	.930	2.000
.859	.857	.861	99086	.250	.375	1.155	2.000
.866	.861	.866	99085	.315	.472	1.188	1.813
.866	.861	.866	99084	.260	.358	1.189	1.854
.875	.873	.877	99087	.313	.438	1.094	2.000
.875	.873	.877	99812 *	.313	.438	1.094	2.000
.910	.908	.912	99091	.313	.438	1.218	1.847
.910	.908	.912	99860 *	.313	.438	1.218	1.847
.945	.940	.945	99092	.315	.437	1.130	2.000
.969	.966	.970	99094	.313	.438	1.130	2.000
.969	.966	.970	99096	.625	.719	1.130	2.000
.984	.982	.986	99098	.313	.433	1.300	2.000
.984	.982	.986	99813 *	.313	.433	1.300	2.000
1.000	.998	1.002	99100	.313	.438	1.219	2.000
1.000	.998	1.002	99814 *	.313	.438	1.219	2.000
1.024	1.019	1.024	99103	.313	.472	1.312	1.813
1.063	1.060	1.064	99106	.313	.438	1.320	2.813
1.063	1.060	1.064	99815 *	.313	.438	1.320	1.843
1.089	1.087	1.091	99108	.313	.438	1.406	.625
1.102	1.100	1.104	99111	.375	.500	1.375	1.843
1.125	1.123	1.127	99112	.313	.438	1.500	.688
1.125	1.123	1.127	99116	.375	.500	1.500	.688
1.125	1.123	1.127	99816 *	.313	.438	1.500	.688
1.156	1.154	1.158	99120	.375	.500	1.350	.688
1.175	1.173	1.178	99122	.313	.438	1.575	.688
1.181	1.179	1.184	99114	.315	.433	1.400	.688
1.188	1.185	1.190	99118	.313	.438	1.400	.688
1.219	1.216	1.222	99123	.313	.433	1.563	.625
1.240	1.237	1.243	99141	.315	.438	1.540	.688
1.250	1.247	1.253	99125	.313	.438	1.500	.688
1.250	1.247	1.253	99817 *	.313	.438	1.500	.688

1.188	1.185	1.190	99114	.315	.433	1.400	.688
1.219	1.216	1.222	99118	.313	.438	1.400	.688
1.240	1.237	1.243	99123	.313	.433	1.563	.625
1.250	1.247	1.253	99141	.315	.438	1.540	.688
1.250	1.247	1.253	99125	.313	.438	1.500	.688
1.260	1.257	1.263	99817 *	.313	.438	1.500	.688
1.313	1.308	1.314	99128	.315	.438	1.500	.688
1.313	1.310	1.316	99129	.250	.375	1.600	.813
1.313	1.310	1.316	99131	.500	.625	1.594	.813
1.339	1.332	1.339	99818 *	.500	.625	1.594	.813
1.375	1.371	1.377	99134	.500	.625	1.625	.815
1.375	1.371	1.377	99133	.313	.438	1.638	.813
1.375	1.375	1.381	99138	.500	.625	1.638	.813
			99139	.512	.630	1.638	.813

* Indicates Speedi-Sleeve Gold Product

SEALS/BEARINGS

Passenger Cars & Light Trucks

SPEEDI-SLEEVE SIZE LISTING - INCHES (Continued)

Nominal Shaft Diameter	"A" Shaft Diameter Range		Stock Number	"X" Width On Shaft (Inches ±.031)	"Y" Overall Width (Inches ±.031)	"D" Flange Diameter (Inches ±.063)	"Z" Installation Depth
	Minimum Inches	Maximum Inches					
1.375	1.371	1.377	99819 *	.500	.625	1.638	.813
1.375	1.375	1.381	99820 *	.512	.630	1.638	.813
1.417	1.412	1.417	99146	.512	.669	1.781	.984
1.438	1.432	1.438	99143	.563	.688	1.781	1.016
1.438	1.435	1.441	99144	.375	.500	1.781	1.016
1.438	1.432	1.438	99821 *	.563	.688	1.781	1.016
1.496	1.490	1.496	99147	.512	.669	1.781	.984
1.500	1.497	1.503	99150	.375	.500	1.781	1.016
1.500	1.497	1.503	99149	.563	.688	1.781	1.016
1.500	1.497	1.503	99822 *	.563	.688	1.781	1.016
1.500	1.497	1.503	99823 *	.375	.500	1.781	1.016
1.523	1.520	1.526	99152	.438	.563	1.859	1.016
1.552	1.549	1.555	99155	.438	.563	1.859	1.016
1.563	1.559	1.565	99156	.563	.688	1.859	1.016
1.563	1.559	1.565	99824 *	.563	.688	1.859	1.016
1.569	1.566	1.572	99159	.625	.750	1.859	1.016
1.575	1.569	1.575	99153	.389	.508	1.846	1.000
1.578	1.572	1.578	99157	.512	.630	1.850	1.023
1.578	1.572	1.578	99825 *	.512	.630	1.850	1.023
1.605	1.602	1.608	99160	.500	.641	1.938	1.000
1.614	1.608	1.614	99163	.500	.625	1.937	1.016
1.625	1.622	1.628	99161	.313	.438	1.875	1.016
1.625	1.623	1.628	99162	.563	.688	1.875	.813
1.625	1.622	1.628	99826 *	.563	.688	1.875	.813
1.650	1.647	1.653	99166	.445	.571	2.087	.846
1.650	1.647	1.653	99169	.563	.689	2.087	.827
1.656	1.653	1.659	99165	.550	.689	2.087	.827
1.688	1.684	1.690	99168	.563	.688	1.906	.875
1.688	1.685	1.691	99167	.313	.438	1.906	.875
1.693	1.687	1.693	99182	.500	.625	1.906	.843
1.719	1.715	1.721	99171	.563	.688	2.031	.813
1.739	1.736	1.742	99170	.375	.500	2.063	.813
1.750	1.747	1.753	99172	.375	.500	2.055	.813
1.750	1.747	1.753	99180	.531	.625	2.063	.875
1.750	1.747	1.753	99174	.563	.688	2.063	.813
1.750	1.747	1.753	99175	.750	.875	2.063	.813
1.750	1.747	1.753	99827 *	.563	.688	2.063	.813
1.750	1.747	1.753	99828 *	.750	.875	2.063	.813
1.766	1.761	1.767	99176	.563	.688	2.063	.813
1.766	1.761	1.767	99829 *	.563	.688	2.063	.813
1.772	1.769	1.775	99177	.551	.669	2.087	.813
1.772	1.769	1.775	99830 *	.551	.669	2.087	.812
1.781	1.778	1.784	99179	.675	.800	2.125	1.062
1.813	1.809	1.815	99181	.563	.688	2.090	1.000
1.813	1.809	1.815	99831 *	.563	.688	2.090	1.000
1.859	1.857	1.863	99185	.563	.688	2.156	1.000
1.868	1.866	1.872	99186	.889	1.025	2.188	1.000
1.875	1.872	1.878	99190	.175	.295	2.203	.744
1.875	1.872	1.878	99188	.295	.415	2.203	.744
1.875	1.872	1.878	99184	.375	.516	2.203	1.050
1.875	1.872	1.878	99187	.563	.688	2.203	1.000
1.875	1.872	1.878	99832 *	.563	.688	2.203	1.000

1.875	1.872	1.878	99190	.295	.295	2.203	.744
1.875	1.872	1.878	99188	.295	.415	2.203	.744
1.875	1.872	1.878	99184	.375	.516	2.203	1.050
1.875	1.872	1.878	99187	.563	.688	2.203	1.000
1.875	1.872	1.878	99832 *	.563	.688	2.203	1.000
1.891	1.887	1.893	99189	.551	.668	2.205	.984
1.912	1.909	1.915	99192	.375	.500	2.219	1.000
1.938	1.934	1.940	99193	.563	.688	2.219	1.000
1.938	1.934	1.940	99833 *	.563	.688	2.219	1.000
1.969	1.965	1.971	99196	.551	.668	2.244	.984
1.980	1.977	1.983	99198	.563	.704	2.313	1.050
2.000	1.997	2.003	99199	.563	.688	2.406	1.000
2.000	1.997	2.003	99200	.875	1.000	2.406	1.000
2.000	1.997	2.003	99834 *	.563	.688	2.406	1.006
2.000	1.997	2.003	99835 *	.875	1.000	2.406	1.000
2.047	2.040	2.047	99204	.500	.625	2.469	1.358
2.063	2.057	2.063	99205	.813	.938	2.469	1.375
2.125	2.123	2.128	99210	.500	.750	2.422	1.281
2.125	2.124	2.130	99212	.781	.938	2.422	1.375
2.125	2.124	2.130	99836 *	.781	.938	2.422	1.375
2.165	2.162	2.168	99215	.787	.905	2.441	1.250
2.165	2.162	2.169	99863 *	.787	.905	2.441	1.250

Passenger Cars & Light Trucks

SEALS/BEARINGS

SPEEDI-SLEEVE SIZE LISTING - INCHES (Continued)

Nominal Shaft Diameter	"A" Shaft Diameter Range		Stock Number	"X" Width On Shaft (Inches ±.031)	"Y" Overall Width (Inches ±.031)	"D" Flange Diameter (Inches ±.063)	"Z" Installation Depth
	Minimum Inches	Maximum Inches					
2.181	2.178	2.184	99217	.781	.938	2.500	1.500
2.188	2.186	2.192	99218	.781	.938	2.500	1.313
2.205	2.198	2.205	99220	.500	.625	2.531	1.315
2.230	2.227	2.233	99229	.500	.625	2.531	1.313
2.230	2.227	2.233	99230	.781	.906	2.531	1.250
2.230	2.227	2.233	99861 *	.500	.625	2.531	1.313
2.240	2.237	2.243	99226	.764	.900	2.563	1.250
2.250	2.249	2.255	99225	.781	.938	2.531	1.313
2.250	2.249	2.255	99227	.313	.438	2.531	1.313
2.250	2.249	2.255	99837 *	.781	.938	2.531	1.313
2.250	2.249	2.255	99838 *	.313	.438	2.531	1.313
2.313	2.309	2.315	99231	.781	.938	2.688	1.375
2.328	2.327	2.333	99233	.750	.875	2.750	1.500
2.362	2.359	2.365	99241	.370	.450	2.785	1.471
2.362	2.359	2.365	99235	.787	.905	2.785	1.375
2.375	2.372	2.378	99238	.594	.750	2.750	1.375
2.375	2.374	2.380	99240	.526	.683	2.750	1.375
2.375	2.374	2.380	99237	.781	.938	2.750	1.375
2.375	2.374	2.380	99839 *	.781	.938	2.750	1.375
2.438	2.434	2.440	99243	.781	.938	2.828	1.393
2.438	2.435	2.441	99242	.500	.625	2.828	1.425
2.441	2.433	2.441	99244	.500	.625	2.827	1.425
2.492	2.489	2.495	99249	.781	.938	2.875	1.393
2.500	2.497	2.503	99253	.555	.650	2.820	.890
2.500	2.500	2.506	99248	.500	.656	2.828	1.393
2.500	2.500	2.506	99250	.781	.938	2.820	1.375
2.500	2.500	2.506	99840 *	.781	.938	2.820	1.375
2.516	2.510	2.516	99251	.781	.906	2.828	1.438
2.559	2.556	2.562	99254	.787	.905	2.850	1.375
2.559	2.556	2.562	99841 *	.787	.905	2.850	1.375
2.563	2.560	2.566	99256	.781	.938	2.891	1.375
2.598	2.595	2.601	99259	.781	.938	2.990	1.250
2.621	2.618	2.624	99261	.781	.938	3.047	1.375
2.625	2.621	2.627	99264	.781	.906	3.047	1.375
2.625	2.622	2.628	99260	.500	.625	3.047	1.375
2.625	2.625	2.631	99262	.781	.938	3.047	1.375
2.625	2.625	2.631	99842 *	.781	.938	3.047	1.375
2.677	2.670	2.677	99266	.752	.874	3.126	1.689
2.730	2.727	2.733	99268	.781	.906	3.125	1.313
2.743	2.740	2.746	99273	.781	.938	3.065	1.250
2.750	2.745	2.751	99274	.781	.938	3.125	1.250
2.750	2.747	2.753	99267	1.438	1.625	3.075	1.625
2.750	2.750	2.756	99272	.406	.563	3.125	1.250
2.750	2.750	2.756	99275	.781	.938	3.125	1.250
2.750	2.750	2.756	99269	1.125	1.250	3.125	1.313

2.750	2.745	2.751	99274	.781	.938	3.125	1.250
2.750	2.747	2.753	99267	1.438	1.625	3.075	1.625
2.750	2.750	2.756	99272	.406	.563	3.125	1.250
2.750	2.750	2.756	99275	.781	.938	3.125	1.250
2.750	2.750	2.756	99269	1.125	1.250	3.125	1.313
2.750	2.745	2.751	99843 *	.781	.938	3.125	1.250
2.750	2.750	2.756	99844 *	.781	.938	3.125	1.250
2.756	2.753	2.759	99276	.787	.945	3.125	1.250
2.813	2.809	2.815	99281	.594	.688	3.188	1.250
2.835	2.827	2.835	99284	.752	.874	3.224	1.343
2.838	2.838	2.844	99845 *	.500	.656	3.225	1.250
2.844	2.838	2.844	99282	.500	.656	3.225	1.250
2.869	2.866	2.872	99286	.781	.938	3.188	1.250
2.875	2.873	2.879	99287	.781	.938	3.219	1.250
2.875	2.873	2.879	99846 *	.781	.938	3.219	1.250
2.938	2.937	2.943	99290	.500	.641	3.344	1.331
2.938	2.937	2.943	99293	.781	.938	3.344	1.313
2.938	2.937	2.943	99847 *	.781	.938	3.344	1.313
2.953	2.950	2.956	99289	.594	.688	3.273	1.083
2.953	2.950	2.956	99294	.866	1.024	3.305	1.313
2.974	2.972	2.976	99292	.813	1.000	3.235	1.250
2.993	2.990	2.996	99291	.484	.625	3.359	1.331
2.993	2.990	2.996	99298	.563	.688	3.359	1.375
2.993	2.990	2.996	99299	.813	1.000	3.350	1.281
3.000	2.997	3.003	99296	.813	.938	3.240	1.375
3.000	3.000	3.006	99300	.813	1.000	3.235	1.281
3.000	3.000	3.006	99303	.625	.813	3.345	1.063
3.000	3.000	3.006	99848 *	.813	1.000	3.235	1.281
3.011	3.008	3.014	99301	.500	.625	3.355	2.000

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* Indicates Speedi-Sleeve Gold Product

SEALS/BEARINGS

Passenger Cars & Light Trucks

SPEEDI-SLEEVE SIZE LISTING - INCHES (Continued)

Nominal Shaft Diameter	"A" Shaft Diameter Range		Stock Number	"X" Width On Shaft (Inches ±.031)	"Y" Overall Width (Inches ±.031)	"D" Flange Diameter (Inches ±.063)	"Z" Installation Depth
	Minimum Inches	Maximum Inches					
3.071	3.063	3.071	99306	.770	.874	3.469	2.059
3.125	3.120	3.126	99311	.688	.813	3.531	2.000
3.125	3.120	3.126	99312	.813	1.000	3.531	2.000
3.125	3.124	3.132	99307	.551	.709	3.525	2.031
3.125	3.120	3.126	99849 *	.813	1.000	3.531	2.000
3.146	3.142	3.150	99313	.750	.886	3.540	1.375
3.150	3.146	3.153	99317	.433	.591	3.543	1.375
3.150	3.146	3.153	99315	.827	.945	3.543	1.375
3.228	3.225	3.231	99328	.660	.848	3.585	1.750
3.250	3.250	3.256	99324	.595	.719	3.575	1.375
3.250	3.250	3.256	99325	.813	1.000	3.585	1.375
3.250	3.250	3.256	99326	.688	.875	3.585	1.250
3.250	3.247	3.253	99322	.813	1.000	3.594	1.375
3.250	3.250	3.256	99850 *	.595	.719	3.575	1.375
3.250	3.250	3.256	99851 *	.813	1.000	3.585	1.375
3.310	3.307	3.313	99331	.813	1.000	3.688	1.375
3.342	3.337	3.347	99332	.669	.827	3.700	1.378
3.342	3.337	3.346	99333	.827	.984	3.700	1.378
3.346	3.338	3.346	99334	.398	.500	3.697	1.433
3.375	3.373	3.379	99338	.375	.500	3.688	1.410
3.375	3.373	3.379	99337	.813	1.000	3.695	1.375
3.438	3.435	3.441	99339	.781	.906	3.844	1.406
3.480	3.477	3.483	99340	.781	.906	3.835	1.406
3.500	3.497	3.503	99346	.625	.813	3.844	1.347
3.500	3.500	3.506	99347	.313	.500	3.825	1.347
3.500	3.500	3.506	99350	.813	1.000	3.844	1.347
3.504	3.501	3.507	99852 *	.813	1.000	3.844	1.347
3.543	3.540	3.546	99349	.625	.813	3.844	1.348
3.543	3.540	3.546	99353	.526	.667	4.000	1.750
3.543	3.540	3.546	99352	.434	.538	4.000	1.813
3.543	3.540	3.546	99351	.710	.906	4.000	1.813
3.543	3.540	3.546	99354	.906	1.102	4.000	1.750
3.563	3.560	3.566	99356	.813	1.000	3.900	1.750
3.621	3.618	3.624	99360	.813	1.000	4.031	1.750
3.625	3.623	3.629	99363	.500	.625	4.025	1.750
3.625	3.623	3.629	99362	.813	1.000	4.031	1.750
3.688	3.684	3.690	99368	.313	.438	3.830	.875
3.688	3.685	3.691	99365	.813	.938	3.830	.875

3.621	3.618	3.624	99356	.813	1.000	3.900	1.750
3.625	3.623	3.629	99360	.500	1.000	4.031	1.750
3.625	3.623	3.629	99363	.500	.625	4.025	1.750
3.688	3.684	3.690	99362	.813	1.000	4.031	1.750
3.688	3.685	3.691	99368	.313	.438	3.830	.875
3.730	3.727	3.733	99365	.813	.938	4.025	1.750
3.730	3.727	3.733	99359	.469	.594	4.016	1.719
3.740	3.737	3.743	99366	.781	.906	4.025	1.750
3.743	3.740	3.746	99369	.827	.945	4.025	1.750
3.743	3.740	3.746	99374	.344	.500	4.031	1.750
3.750	3.746	3.752	99364	.469	.594	4.035	1.750
3.750	3.750	3.756	99376	.563	.688	4.025	1.750
3.750	3.750	3.756	99367	.344	.500	4.025	1.750
3.750	3.750	3.756	99372	.688	.875	4.020	1.875
3.750	3.750	3.756	99853 *	.688	.875	4.020	1.800
3.871	3.868	3.874	99386	.813	1.000	4.185	1.875
3.875	3.873	3.879	99387	.813	1.000	4.219	1.875
3.938	3.935	3.941	99393	.813	1.000	4.313	2.050
3.938	3.935	3.941	99854 *	.813	1.000	4.313	2.050
4.000	3.998	4.006	99395	.600	.725	4.375	2.050
4.000	3.998	4.006	99399	.813	1.000	4.375	2.050
4.000	3.998	4.006	99400	.650	.775	4.375	1.375
4.000	3.998	4.006	99401	.500	.625	4.375	2.066
4.000	3.998	4.006	99855 *	.813	1.000	4.375	2.050
4.094	4.090	4.098	99409	.787	.945	4.438	1.417
4.125	4.122	4.130	99412	.813	1.000	4.420	1.375
4.134	4.130	4.138	99413	.787	.913	4.470	1.378
4.188	4.183	4.191	99418	.813	1.000	4.500	1.375
4.234	4.226	4.234	99423	.781	.906	4.610	1.438
4.250	4.248	4.256	99424	.813	1.000	4.610	1.438
4.328	4.327	4.335	99435	.509	.650	4.921	1.250
4.331	4.322	4.331	99434	.499	.570	4.917	1.295
4.375	4.370	4.378	99437	.813	1.000	4.750	1.650
4.406	4.401	4.409	99438	.748	.886	4.750	1.063
4.438	4.434	4.442	99439	1.000	1.142	4.813	1.313
4.500	4.496	4.504	99450	.813	1.000	4.900	1.250

* Indicates Speedi-Sleeve Gold Product

Passenger Cars & Light Trucks

SEALS/BEARINGS

SPEEDI-SLEEVE SIZE LISTING - INCHES (Continued)

Nominal Shaft Diameter	"A" Shaft Diameter Range		Stock Number	"X" Width On Shaft (Inches ±.031)	"Y" Overall Width (Inches ±.031)	"D" Flange Diameter (Inches ±.063)	"Z" Installation Depth
	Minimum Inches	Maximum Inches					
4.500	4.496	4.504	99856 *	.813	1.000	4.900	1.250
4.527	4.523	4.531	99452	.813	.938	5.000	1.250
4.625	4.621	4.629	99463	1.000	1.250	5.063	1.375
4.625	4.621	4.629	99465	.438	.625	5.000	1.375
4.688	4.685	4.693	99468	.813	1.000	5.063	1.375
4.724	4.720	4.728	99471	.315	.433	5.110	1.323
4.724	4.720	4.728	99473	.787	.984	5.110	1.260
4.750	4.746	4.754	99475	.500	.750	5.000	1.500
4.803	4.799	4.807	99472	.787	.945	5.177	1.260
4.843	4.839	4.847	99484	.787	.984	5.229	1.244
4.875	4.871	4.879	99487	.625	.750	5.250	1.438
4.921	4.917	4.925	99490	.394	.551	5.400	1.438
4.921	4.917	4.925	99492	1.024	1.260	5.400	1.438
5.000	4.998	5.006	99501	.540	.681	5.400	1.438
5.000	4.998	5.006	99498	.688	.875	5.400	1.438
5.000	4.998	5.006	99499	.813	1.000	5.390	1.438
5.000	4.998	5.006	99857 *	.688	.875	5.400	1.438
5.000	4.998	5.006	99858 *	.813	1.000	5.390	1.438
5.114	5.110	5.118	99494	.750	.938	5.493	1.181
5.125	5.117	5.125	99491	.866	.996	5.493	1.280
5.125	5.120	5.128	99513	.813	1.000	5.500	1.250
5.250	5.246	5.254	99525	.813	1.000	5.560	1.250
5.313	5.307	5.315	99533	.807	1.000	5.875	1.250
5.375	5.371	5.379	99537	.813	1.000	5.875	1.250
5.438	5.434	5.442	99548	1.500	1.688	5.750	1.875
5.472	5.472	5.480	99547	.563	.750	6.100	.938
5.500	5.498	5.506	99549	.813	1.000	5.938	1.250
5.500	5.498	5.506	99550	.518	.705	5.938	1.250
5.500	5.498	5.506	99859 *	.813	1.000	5.938	1.250
5.512	5.508	5.516	99552	.807	1.000	5.945	1.250
5.525	5.521	5.533	99553	.825	1.000	5.938	1.250

5.472	5.472	5.480	99547	.563	.750	6.100	.938
5.500	5.498	5.506	99549	.813	1.000	5.938	1.250
5.500	5.498	5.506	99550	.518	.705	5.938	1.250
5.500	5.498	5.506	99859 *	.813	1.000	5.938	1.250
5.512	5.508	5.516	99552	.807	1.000	5.945	1.250
5.625	5.621	5.629	99560	.875	1.000	6.188	1.812
5.709	5.700	5.709	99571	.768	.874	5.902	1.811
5.734	5.726	5.734	99562	.563	.750	5.900	1.938
5.750	5.746	5.754	99575	.813	1.000	6.180	1.750
5.875	5.871	5.879	99587	1.000	1.250	6.188	1.313
5.875	5.871	5.879	99862 *	1.000	1.250	6.188	1.313
5.905	5.895	5.905	99595	1.024	1.181	6.260	1.338
5.938	5.934	5.942	99596	1.000	1.125	6.375	1.875
6.000	5.995	6.003	99601	.500	.750	6.360	1.750
6.000	5.995	6.003	99599	1.000	1.250	6.375	1.750
6.063	6.058	6.068	99605	1.024	1.181	6.375	1.299
6.097	6.092	6.102	99606	1.024	1.181	6.575	1.299
6.203	6.198	6.208	99620	.813	1.063	6.625	1.750
6.250	6.245	6.255	99625	1.031	1.250	6.625	1.750
6.299	6.289	6.299	99630	1.000	1.250	7.000	1.375
6.500	6.495	6.505	99650	1.000	1.250	7.000	1.375
6.688	6.683	6.693	99640	1.250	1.496	7.188	1.750
6.750	6.745	6.755	99675	.813	1.063	7.125	1.750
6.890	6.880	6.890	99687	1.102	1.260	7.362	1.378
7.000	6.995	7.005	99700	1.000	1.250	7.475	1.688
7.087	7.077	7.087	99721	1.300	1.496	7.500	1.752
7.250	7.244	7.254	99725	1.250	1.500	7.760	2.175
7.278	7.273	7.283	99726	1.260	1.496	7.834	2.185
7.453	7.444	7.454	99745	.813	1.000	7.860	1.250
7.500	7.495	7.505	99750	.813	1.000	7.875	1.250
7.750	7.745	7.755	99775	1.000	1.313	8.270	1.875
7.875	7.869	7.879	99787	1.359	1.500	8.375	1.750
7.938	7.933	7.943	99799	1.000	1.250	8.375	1.750
8.000	7.995	8.005	99800	1.000	1.250	8.375	1.750

* Indicates Speedi-Sleeve Gold Product