ASTM & SAE Grade Markings for Steel Bolts and Screws									
Grading * Marking	Specification	Material	Bolt & Screw Size, Inches	Min. Yield Strength	Min. Tensile Strength				
$\left\langle \begin{array}{c} \uparrow \\ \end{array} \right\rangle$	18 - 8 18 Chromium 8 Nickel	"300" Series Stainless Steel	All Diameters	30,000**	70,000**				
B-8	ASTM-A193 / A320 GR B8 CL-1	Solution Treated 304 - 304L Stainless Steel	All Diameters	30,000	75,000				
В8М	ASTM-A193 / A320 GR B8M CL-1	Solution Treated 316 - 316L Stainless Steel	All Diameters	30,000	75,000				
BBA	ASTM A193 / A320 GR B8A CL-1A	304 - 304L Stainless Steel Solution Treated In Finished Condition	All Diameters	30,000	75,000				
B8MA	ASTM A193 / A320 GR B8MA CL-1A	316 - 316L Stainless Steel Solution Treated In Finished Condition	All Diameters	30,000	75,000				
B-6	ASTM A193 GR B6	410 Stainless Steel Quenched and Tempered	1/4" thru 4"	85,000	110,000				
BBC	ASTM A193 GR B8C CL1	347 Stainless Steel Solution Treated	All Diameters	30,000	75,000				
BBT	ASTM A193 GR B8T CL1	321 Stainless Steel Solution Treated	All Diameters	30,000	75,000				
BBR	ASTM A193 GR B8R	Nitronic 50 Solution Treated	All Diameters	55,000	100,000				
B8S	ASTM A193 GR B8S	Nitronic 60 Solution Treated	All Diameters	50,000	95,000				
F593U	ASTM F593 Cond. AH	17 - 4 PH (Type 630) Annealed and Age Hardened	1/4" thru 1-1/2"	105,000	135,000				
307A	ASTM-A307 GR-A	Low or Medium Carbon Steel	1/4" thru 4"		60,000				
307B	ASTM-A307 GR-B	Low or Medium Carbon Steel	1/4" thru 4"		60,000 100,000 Max.				
	ASTM-A449 J429 GR5	Medium Carbon Steel Quenched and Tempered	1/4" thru 1" 1" thru 1-1/2" 1-1/2" thru 3"	85,000 74,000 55,000	120,000 105,000 90,000				
$\left\langle \begin{array}{c} \\ \end{array} \right\rangle$	J429 GR8	Medium Carbon Alloy Steel Quenched and Tempered	1/4" thru 1-1/2"	120,000	150,000				
BC	ASTM A354 GR BC	Alloy Steel Quenched and Tempered	1/4" thru 2-1/2" over 2-1/2" - 4"	109,000 99,000	125,000 115,000				

	ASTM A354	Alloy Steel	1/4" thru 2-1/2"	130,000	150,000
	GR BD	Quenched and Tempered	over 2-1/2" - 4"	115,000	140,000
В7	ASTM A193 GR B7	Chrom - Moly - Steel Quenched and Tempered	2-1/2" & under over 2-1/2" thru 4" over 4" thru 7"	105,000 95,000 75,000	125,000 115,000 100,000
B16	ASTM A193 GR B16	Chrom - Moly - Vanadium - Steel Quenched and Tempered	2-1/2" & under over 2-1/2" thru 4" over 4" thru 7"	105,000 95,000 75,001	125,000 115,000 100,000
A325	ASTM A325	Medium Carbon Steel	1/2" thru 1"	85,000	120,000
	Type 1	Quenched and Tempered	1-1/8" thru 1-1/2	74,000	105,000
<u>A325</u>	ASTM A325	Weather Resistant Steel	1/2" thru 1"	85,000	120,000
	Type 3	Quenched and Tempered	1-1/8" thru 1-1/2	74,000	105,000
A490	ASTM A490	Alloy Steel Quenched and Tempered	1/2" thru 1-1/2"	120,000	150,000

\* Manufacturer's ID also appears.
\*\* Cold forming greatly increases these values. Actual properties will be considerably higher