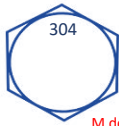
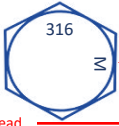
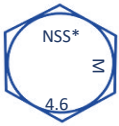
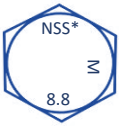
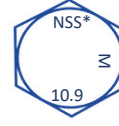
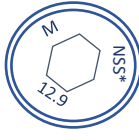
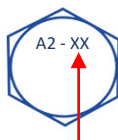
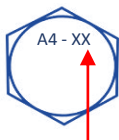
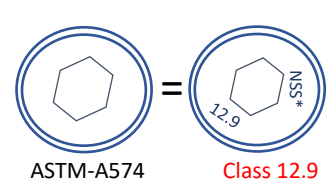
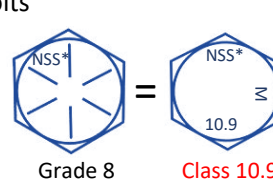
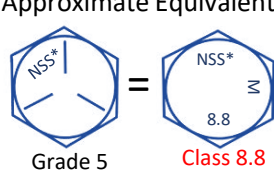
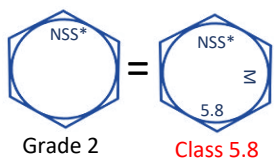


BOLT QUICK REFERENCE IDENTIFICATION & MECHANICAL PROPERTIES

COMMON INCH STEEL BOLTS					STAINLESS STEEL	
Identification Mark					  M denotes Metric Thread No Mark denotes Inch Thread	
Product Specification	Grade 2	Grade 5	Grade 8	Soc. Hd. Cap Scr.s.	Stainless Steel	Stainless Steel
Nominal Size Range	1/4 - 3/4 (> 3/4 - 1 1/2)	1/4 - 1 (> 1 - 1/2)	1/4 - 1 1/2	< 1/2 (> 1/2 - 2)	1/4 - 1 1/4	1/4 - 1 1/2
Material	Low/Med Carbon Steel	Medium Carbon Steel Heat Treated	Medium Carbon Steel Heat Treated	Alloy Steel Heat Treated	Stainless Steel 304	Stainless Steel 316
Tensile Strength Minimum (psi)	74000 (60000)	120000 (105000)	150000	180000 (170000)	85000	85000
Yield Strength Minimum (psi)	57000 (36000)	91000 (81000)	130000	162000 (153000)	45000	45000
Proof Load (psi)	55000 (36000)	85000 (74000)	120000	140000 (135000)	-	-
Hardness Min / Max	HRB-70 HRB-95	HRC-19 HRC-34	HRC-33 HRC-39	HRC-38 HRC-45	HRB-80	HRB-80
Compatible Nut	Mild Steel	Grade 5	Grade 8	-	304	316

COMMON METRIC STEEL BOLTS						STAINLESS STEEL	
Identification Mark						  XX Denotes Property Class	
Product Specification	Class 4.6	Class 5.8	Class 8.8	Class 10.9	Class 12.9 Socket Head Cap Screw		
Material	Low/Med Carbon Steel	Low /Medium Carbon Steel Heat Treated	Medium Carbon Steel Heat Treated	Alloy Steel Heat Treated	Alloy Steel Heat Treated	Alloy Stainless Steel A2 (Addition of Chromium-Nickle)	Alloy Stainless Steel A4 (Additional Corrosion Resistance)
Tensile Strength Minimum	400 MPa (58000 psi)	520 MPa (75000 psi)	830 MPa (120000 psi)	1040 MPa (150000 psi)	1220 MPa (176000 psi)	A2-50 = 500 Mpa A2-70 = 700 Mpa A2-80 = 800 Mpa	A4-50 = 500 Mpa A4-70 = 700 Mpa A4-80 = 800 Mpa
Yield Strength Minimum	240 MPa	420 MPa	640 MPa	940 MPa	1100 MPa	A2-50 = 210 Mpa A2-70 = 450 Mpa A2-80 = 600 Mpa	A4-50 = 210 Mpa A4-70 = 450 Mpa A4-80 = 600 Mpa
Proof Load (psi)	220 MPa	380 MPa	600 MPa	830 MPa	970 MPa	-	-
Hardness Min / Max	HRB-67 HRB-95	HRC-82 HRC-95	HRC-22 HRC-34	HRC-32 HRC-39	HRB-39 HRB-44	HRB-80	HRB-80
Compatible Nut	Class 5	Class 5	Class 8	Class 10	-	A2	A4

* Approximate Equivalent INCH / **METRIC** Bolts



NSS* Manufacturer's Identification

* Based on material tensile strength



NSS Fasteners
YOUR ONE STOP FASTENER SUPPLIER
Established in 1978