







Head Marking	Class & Material	Size Range (mm)	Mechanical Properties		
			Proof Load(MPa)	Min. Yield Strength (MPa)	Min. Tensile Strength (MPa)
METRIC BOLTS					
	Class 8.8 Medium Carbon Steel	Below 16mm	580	640	800
		16mm - 72mm	600	660	830
	Class 10.9 Alloy Steel	5mm - 100mm	830	940	1040
	Class 12.9 Alloy Steel	1.6mm - 100mm	970	1100	1220
 Stainless Steel Markings Vary Usually stamped A-2	A-2 Stainless Steel Alloy with 17-19% Chromium & 8-13% Nickel	Up to 20mm	-	210 Min. 450 Typical	500 Min. 700 Typical
<p>Proof Load: The greatest load the product must withstand without straining the piece beyond the elastic limit.</p> <p>Yield Strength: The stress at which a material begins to deform plastically.</p> <p>Tensile Strength: Maximum stress a material can withstand while being pulled before failing or breaking.</p>					

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