Earnest Technical Bulletin

Saddle Bolts

5/4/12

Hex Head Saddle Bolts (hex head bolts) are used in truck suspensions assemblies and are commonly referred to as Saddle Bolts, in sizes 1" – 14 x 9 to 11 1/2.

Manufacture: Saddle Bolts meet the requirements for Hex Head Cap Screws as specified in following industry standards:

- ANSI B18.2.1 Dimensions (Hex Head Cap Screw)
- ANSI B1.1 Thread Requirements
- SAE J1061 Surface Discontinuities
- SAE J429 Material and Physical Properties
- ANSI B18.1.2 Inspection and Quality Assurance for General Purpose Fasteners

Physical Properties: The physical properties shall conform to the requirements of SAE J429 for Grade 8 screws. The physical properties listed below are for reference only, refer to SAE J429 for complete requirements and test procedures.

Tensile Strength (wedge): 150,000 psi min
Proof Load Strength: 120,000 psi min
Yield Strength: 130,000 psi min
Ductility (machine coupon):
Percent Elongation" 12 % min
Percent Reduction of Area: 35 % min

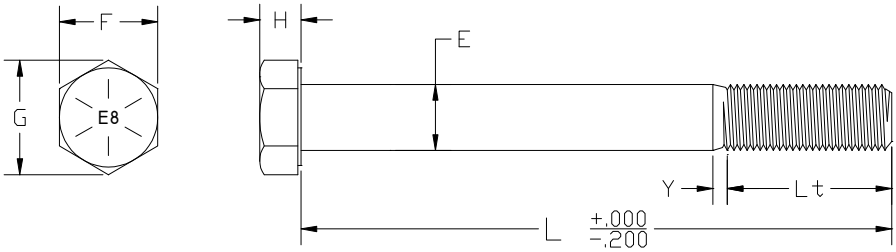

Table 2: Dimensional Requirements

Size	Body Dia.		Width Across Flats		Width Across Corners		Head Height		Thread Transition	Bearing Surface Runout
	E		F		G		H		Y	FIM
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max
1" – 14 UNS	1.000	.990	1.500	1.469	1.732	1.675	.627	.591	.625	.026

EMP P/N	Length	Thread Length
	L	Lt
828018	9"	2.500
828028	9 1/2"	2.500
828038	10"	2.500
828048	10 1/2"	2.500
828058	11"	2.500
828068	11 1/2"	2.500

Length Tolerance (L), Thread Length (Lt) and Thread Transition Length (Y) shall be in accordance with ANSI/ASME B18.2.1 for "pointed" products.