

Product Information Sheet

HEX TAP BOLTS, INCH SERIES, GRADE A

Typical Material: Low Carbon Steel

Material and Mechanical Properties: Purchased to meet ASTM A307 Grade A.

Dimensions: ASME B18.2.1 Rolled Threads

Zinc Plating: Purchased to meet ASTM F1941 FeZn3A

Hot-Dip Galvanized: Purchased to meet ASTM A153

Typical Hardness: HRB 69-100

Tensile Strength: 60,000 PSI Minimum



TENSILE STRENGTH -NC THREADS

Size	PSI	Pounds
1/4-20	60,000	1900
5/16-18	60,000	3100
3/8-16	60,000	4650
7/16-14	60,000	6350
1/2-13	60,000	8500
9/16-12	60,000	11,000
5/8-11	60,000	13,550
3/4-10	60,000	20,050
7/8-9	60,000	27,700
1-8	60,000	36,350
1 1/8-7	60,000	45,800
1 1/4-7	60,000	58,150
1 3/8-6	60,000	69,300
1 1/2-6	60,000	84,300
1 3/4-5	60,000	114,000
2-4 1/2	60,000	150,000

LENGTH TOLERANCES FOR HEX BOLTS

Nominal Length	Nominal Size					
	1/4 to 3/8	7/16 & 1/2	9/16 to 3/4	7/8 to 1	1 1/8 to 1 1/2	over 1 1/2
up to and incl. 1 inch	+0.02/-0.03	+0.02/-0.03	+0.02/-0.03			
over 1" to 2 1/2" incl.	+0.02/-0.04	+0.04/-0.08	+0.06/-0.08	+0.08/-0.10	+0.12/-0.12	+0.18/-0.18
over 2 1/2 to 4" incl.	+0.04/-0.06	+0.06/-0.08	+0.08/-0.10	+0.10/-0.10	+0.16/-0.16	+0.20/-0.20
over 4" to 6", incl.	+0.06/-0.10	+0.08/-0.10	+0.10/-0.10	+0.12/-0.16	+0.18/-0.18	+0.22/-0.22
over 6"	+0.10/-0.18	+0.12/-0.18	+0.14/-0.20	+0.16/-0.20	+0.22/-0.22	+0.24/-0.24



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