

Porteous Fastener Company

Product Information Sheet

Hex Bolts, Full Body, Inch Series



- PFC Product Categories: 00024, & 00026.
- Manufacturers test reports are typically available for this product.
- Typical Material: Low Carbon Steel
- Material and Mechanical Properties: Purchased to meet ASTM A307 Grade A.
- Dimensions: ASME B18.2.1, Full Body, Rolled Threads
 - Standard thread length on bolt lengths up to 9 ¾ inches. 6 inches of threads on lengths 10 inches and longer.
- 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					
Size	PSI	Pounds	Size	PSI	Pounds
1/4-20	60,000	1900	7/8-9	60,000	27,700
5/16-18	60,000	3100	1-8	60,000	36,350
3/8-16	60,000	4650	1 1/8-7	60,000	45,800
7/16-14	60,000	6350	1 1/4-7	60,000	58,150
1/2-13	60,000	8500	1 3/8-6	60,000	69,300
9/16-12	60,000	11,000	1 1/2-6	60,000	84,300
5/8-11	60,000	13,550	1 3/4-5	60,000	114,000
3/4-10	60,000	20,050	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 & incl 1"	+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/-0.06	+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/-0.14	+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