

Porteous Fastener Company

Product Information Sheet

Heavy Hex Bolts, Grade B, Full Body, Inch Series



- PFC Product Category: 00030.
- Manufacturers test reports are typically available for this product.
- Typical Material: Low Carbon Steel
- Material and Mechanical Properties: Purchased to meet ASTM A307 Grade B.
- Dimensions: ASME B18.2.1, Full Body, Rolled Threads
- Zinc Plating: Purchased to meet ASTM F1941 FeZn3A
- Hot-Dip Galvanized: Purchased to meet ASTM A153.
- Typical Hardness: HRB 69-95
- Tensile Strength: 60,000 PSI Minimum / 100,000 PSI Maximum.

Tensile Strength ASTM A307 Grade B - NC Threads				
Size	PSI (Min)	Lbs (Min)	PSI (Max)	Lbs (Max)
1/2-13	60,000	8500	100,000	14,190
5/8-11	60,000	13,550	100,000	22,600
3/4-10	60,000	20,050	100,000	33,400
7/8-9	60,000	27,700	100,000	46,200
1-8	60,000	36,350	100,000	60,600
1 1/8-7	60,000	45,800	100,000	76,300
1 1/4-7	60,000	58,150	100,000	96,900

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

Wrench / Socket Sizes - Heavy Hex Bolts							
Bolt Size	Socket Size	Bolt Size	Socket Size	Bolt Size	Socket Size	Bolt Size	Socket Size
1/2	7/8	3/4	1 1/4	1	1 5/8	1 1/4	2
5/8	1 1/16	7/8	1 7/16	1 1/8	1 13/16		