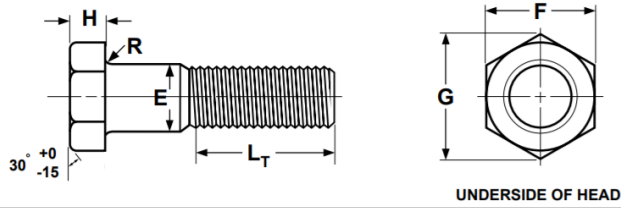


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An **AMERICAN** Source For Premier
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HEX BOLT – STEEL-ZINC AND GALVANIZED

The following Specification Sheet applies to all **Hex Bolt – Steel-Zinc and Galvanized** in our **BHC** and **JBHC** series.



UNDERSIDE OF HEAD

HEX MACHINE BOLTS															ASME B18.2.1-1996	
Nominal Size Or Basic Diameter		E		F			G		H			R		L _T		
		Body Diameter		Width Across Flats			Width Across Corners		Head Height			Radius of Fillet		Thread Length For Bolt Lengths		
		Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	over 6 in.	
1/4	0.2500	0.260	0.237	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150	0.03	0.01	0.750	1.000	
5/16	0.3125	0.324	0.298	1/2	0.500	0.484	0.577	0.552	7/32	0.235	0.195	0.03	0.01	0.875	1.125	
3/8	0.3750	0.388	0.360	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226	0.03	0.01	1.000	1.250	
1/2	0.5000	0.515	0.482	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302	0.03	0.01	1.250	1.500	
5/8	0.6250	0.642	0.605	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378	0.06	0.02	1.500	1.750	
3/4	0.7500	0.768	0.729	1-1/8	1.125	1.088	1.299	1.240	1/2	0.524	0.455	0.06	0.02	1.750	2.000	
7/8	0.8750	0.895	0.852	1-5/16	1.312	1.269	1.516	1.447	37/64	0.604	0.531	0.06	0.02	2.000	2.250	
1	1.0000	1.022	0.976	1-1/2	1.500	1.450	1.732	1.653	43/64	0.700	0.591	0.09	0.03	2.250	2.500	
Tolerance on Length		Nominal Screw Size		Nominal Screw Length												
				Up to 1 in., incl.	Over 1 in. to 2-1/2 in., incl.	Over 2-1/2 in. to 4 in., incl.	Over 4 in. to 6 in., incl.	Longer than 6 in.								
		1/4 to 3/8		+0.02, -0.03	+0.02, -0.04	+0.04, -0.06	+0.06, -0.10	+0.10, -0.18								
		7/16 and 1/2		+0.02, -0.03	+0.04, -0.06	+0.06, -0.08	+0.08, -0.10	+0.12, -0.18								
		9/16 to 3/4		+0.02, -0.03	+0.06, -0.08	+0.08, -0.10	+0.10, -0.10	+0.14, -0.18								
7/8 and 1		...	+0.08, -0.10	+0.10, -0.14	+0.12, -0.16	+0.16, -0.20										

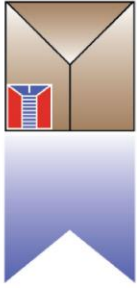
Metallics

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Description	A low or medium carbon steel, externally threaded mechanical device, 1/4 inch in diameter or larger, with a trimmed hex head. A hex bolt does not have a washer face on its bearing surface as does a hex cap screw, nor does it have a machined point. Its body tolerances are not as close as those of a cap screw.
Applications/ Advantages	Galvanized: Designed to be used in highly corrosive environments (ie. coastal locales and heavily polluted atmospheres). May be inserted into an oversized hole and should be assembled with a nut.
Material	Machine bolts shall be manufactured from steel which conforms to the following chemical composition requirements: <i>Phosphorus: 0.06% maximum; Sulfur: 0.15% maximum.</i>

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