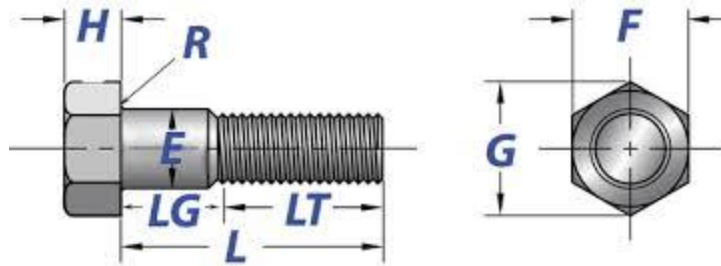




Heavy Hex Bolt Product Information

1.0 Dimensions: ASME B18.2.1.



Nominal Size or Basic Product Diameter	Body Diameter		Width Across Flats		Width Across Corners		Head Height		Thread Length	
									For Screw Lengths 6 Inches and Shorter	For Lengths Over 6 Inches
									Ref	Ref
	Max	Min	Max	Min	Max	Min	Max	Min		
1/2	0.515	0.482	0.875	0.850	1.010	0.969	0.364	0.302	1.250	1.500
5/8	0.642	0.605	1.062	1.031	1.227	1.175	0.444	0.378	1.500	1.750
3/4	0.768	0.729	1.250	1.212	1.443	1.383	0.524	0.455	1.750	2.000
7/8	0.895	0.852	1.438	1.394	1.660	1.589	0.604	0.531	2.000	2.250
1	1.022	0.976	1.625	1.575	1.876	1.796	0.700	0.591	2.250	2.500
1-1/8	1.149	1.098	1.812	1.796	2.093	2.002	0.780	0.658	2.500	2.750
1-1/4	1.277	1.223	2.000	1.938	2.309	2.209	0.876	0.749	2.750	3.000
1-3/8	1.404	1.345	2.188	2.119	2.526	2.416	0.940	0.810	3.000	3.250
1-1/2	1.531	1.470	2.375	2.300	2.742	2.622	1.036	0.902	3.250	3.500
1-3/4	1.785	1.716	2.750	2.662	3.175	3.0345	1.196	1.054	3.750	4.000
2	2.039	1.964	3.125	3.025	3.608	3.449	1.388	1.175	4.250	4.500
2-1/4	2.305	2.214	3.500	3.388	4.041	3.862	1.548	1.327	4.750	5.000
2-1/2	2.559	2.461	3.875	3.750	4.474	4.275	1.708	1.479	5.250	5.500

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2.0 Mechanical Properties (For Full Size Bolt Testing):

Standar/Grade	Length	Hardness	Tensile Strength	Grade Marking
ASTM A307 Grade B	Less than 3 times the normal diameter	69-95 HRB	60,000 to 100,000 Psi	307B
	3 times the normal diameter and longer	95 HRB Max		

3.0 Surface Finish: Plain/Zinc/HDG. Zinc and HDG details below.

Properties	Zinc Clear	Hot Dip galvanized (HDG)
Type	Trivalent (Cr+3)	RoHS Compliant
Color	Clear	
Coat Thickness	0.0001” / 3 Microns or 0.0002” / 5 Microns Minimum	For sizes 3/8 “ & under : minimum 0.0017” (43 microns) and for sizes over 3/8 “ minimum 0.0020” (50 microns)
Specification	ASTM F1941 / F1941M. Fe/Zn 3AN or Fe/Zn 5AN	ASTM F2329M/F2329M or ASTM A153/A153M.

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