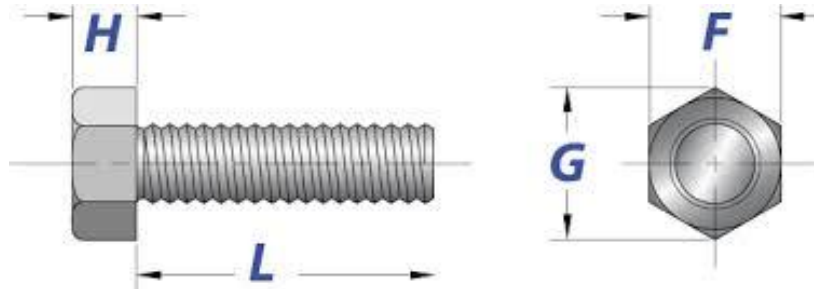




Hex Tap Bolt Product Information

1.0 Dimensions: IFI-199



Nominal Size or Basic Product Diameter	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Min	Mix	Min	Max	Basic	Min	Max
1/4	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150
5/16	1/2	0.500	0.484	0.577	0.522	7/32	0.195	0.235
3/8	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226
7/16	5/8	0.625	0.603	0.722	0.687	19/64	0.316	0.272
1/2	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302
5/8	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378
3/4	1-1/8	1.125	1.088	1.299	1.240	1/2	0.524	0.455
7/8	1-5/16	1.312	1.269	1.516	1.447	37/64	0.604	0.531
1	1-1/2	1.500	1.450	1.732	1.653	43/64	0.700	0.591
1-1/8	1-11/16	1.688	1.631	1.949	1.859	3/4	0.780	0.658
1-1/4	1-7/8	1.875	1.812	2.165	2.066	27/32	0.876	0.749

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2.0 Mechanical Properties (For Full Size Bolt Testing)

2.1 Steel: ASTM A307 Grade A

Grade	Length	Hardness	Tensile Strength Minimum	Grade Marking
A	Less than 3 times the diameter	69 to 100 HRB	60,000 PSI	307A
	3 times the diameter and longer	100 HRB Max		

2.2 Steel: SAE J429 Grade 5

Classification		Rockwell Hardness	Proof Load Strength Minimum	Tensile Strength Minimum	Grade Marking
Grade	Nominal Size				
5	1/4 thru 1	C25-C34	85,000 PSI	120,000 PSI	3 Radial Lines 120 Degrees Apart
	Over 1-1/2	C19-C30	74,000 Psi	105,000 PSI	

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

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Properties	Zinc Clear	Hot Dip Galvanized
Type	Trivalent(Cr+3)	RoHS Complaint
Color	Clear	
Coating Thickness	0.0001"/3 Microns or 0.0002"/5 Microns Minimum	For sizes 3/8" and under: minimum 0.0017" (43 microns) and for sizes ovr 3/8" Minimum 0.0020" (50 microns)
Specification	ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN	ASTM F2329/F2329M or ASTM A153/A153M

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