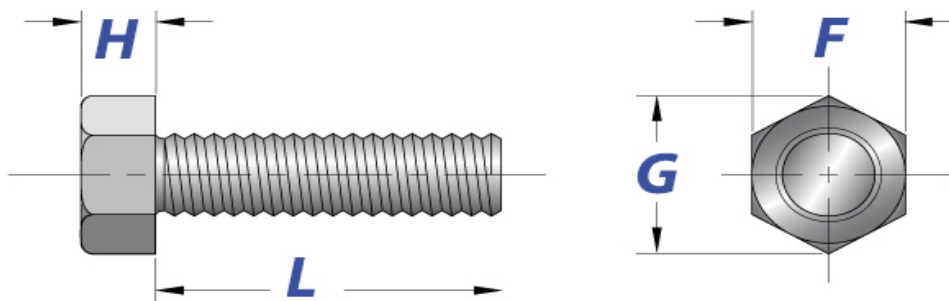


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Tap Bolts

1.0 Dimensions: IFI -199



Nominal Size or Basic Product Diameter	F			G		H		
	Width Across Flats			Width Across Corners		Head Height		
	Basic	Min	Max	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	0.552	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

Notes :

1.0 Tap bolts are hex head bolts which are fully threaded.

2.0 Thread Class of Fit : Plain : 2A. Zinc Plated : 2A before zinc plating and after zinc plating must meet 3A GO & 2A NO GO thread ring gage condition. Hot Dip Galvanized : 2A before coating.



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Tap Bolts

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		

Notes: The bolts will also have manufacturer's marking on the head in addition to the grade marking as mentioned in the table.

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 to C34	85,000 PSI	120,000 PSI	3 Radial Lines 120 Degrees Apart
	Over 1 thru 1-1/2	C19 to C30	74,000 PSI	105,000 PSI	

3.0 Surface Finish: Plain/Zinc/HDG. Zinc & HDG details given in table below:

Properties	Zinc Clear	Hot Dip Galvanized (HDG)
Type	Trivalent (Cr+3)	RoHS Complaint
Color	Clear	
Coating 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 F2329/F2329M or ASTM A153/A153M

Disclaimer: The above is a compilation of data, from various industry standards. BBI has taken every effort to present the data accurately. However BBI cannot be held liable for any claim traceable to any errors typographical or otherwise contained herein.