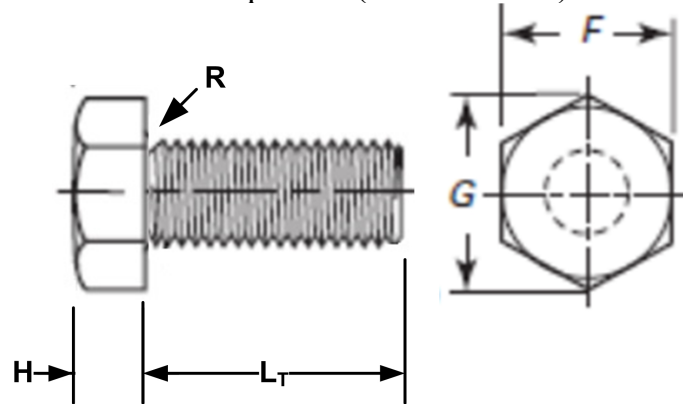


Hex Tap Bolts (3/4 thru 1-1/2)



307A

GRADE MARK

THREAD DATA		
Size: 3/4	Threads per in.: 10	Series Designation: UNC
Thread Class or Type: 2A	Major Diameter: 0.7482 - 0.7353	Pitch and Functional Dia.: 0.6832 - 0.6773
Tensile Stress Area: 0.3345	Standard: ASME B1.1 - 2019	
DIMENSIONAL DATA		
Type: Hex Tap Bolts (3/4 thru 1-1/2)	Standard: IFI - 199-2014	Nominal Diameter: 0.75
F - Width Across Flats: 1.125 - 1.088	G - Width Across Corners: 1.299 - 1.240	R - Fillet Radius: 0.060 - 0.020
H - Head Height: 0.524 - 0.455	L _T - Thread Length for Screw Length 6 in. or less: Fully Threaded	Point Type: Non-pointed
L - Length: 2-1/4	Length Tolerance: +0.08/-0.10	
PHYSICAL REQUIREMENTS		
Nominal: 0.75	Standard: ASTM A307A-2014e1	Typical Materials: low carbon steel, 1006 through 1022
Hardness: HRB 69 - 100	Tensile Load, Min. (lbf): 20,040	Yield PSI, 2% Offset, Machined Specimen: 36,000
Elongation, min. %, Machined Specimen: 18	Tensile Strength, Min. (psi): 60,000	Calculated Shear Load-BODY (ref.)(lbf): 12,024
Calculated Shear Load-THREADS (ref.)(lbf): 10,020	Straightness Factor: 0.014	Calculated Pretension ² (lbf) : 9,018
Tightening Torque ¹ : 124 ft.lbf, 1,490 in.lbf, 168.4 Nm		
FINISH DATA		
Finish: Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm	K factor (ref. DIN 946): 0.22	Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN

¹ These torque values are based on K factors determined using DIN 946, tightening tension of 75% of the yield strength, and the calculation formula T=KDP. These values are advisory only. The torque for assembling critical joints should be determined and/or verified through actual experimentation by the user. The IFI is not responsible for any losses or claims resulting from the use of these values. ² Calculated Pretension is equal to 75% of the bolt's yield strength achieved when using the indicated Tightening Torque.

