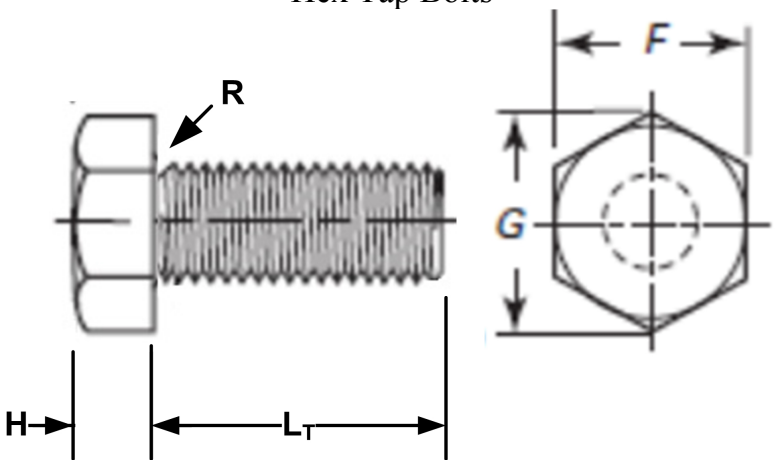
Hex Tap Bolts



307A

GRADE MARK

THREAD DATA		
Size: 5/16	**Threads per in.:** 18	**Series Designation:** UNC
Thread Class or Type: 2A	**Major Diameter:** 0.3113 - 0.3026	**Pitch and Functional Dia.:** 0.2752 - 0.2712
Tensile Stress Area: 0.0524	**Standard:** ASME B1.1 - 2003 (R2008)	**Length:** 3-1/2
Length Tolerance: +0.04/-0.06		
DIMENSIONAL DATA		
Type: Hex Tap Bolts	**Standard:** IFI - 199	**Nominal Diameter:** 0.313
F - Width Across Flats: 0.500 - 0.484	**G - Width Across Corners:** 0.577 - 0.552	**R - Fillet Radius:** 0.030 - 0.010
H - Head Height: 0.235 - 0.195	**Point Type:** Non-pointed	
PHYSICAL REQUIREMENTS		
Nominal: 0.313	**Standard:** ASTM A307A-2014	**Typical Materials:** low carbon steel, 1006 through 1022
Hardness: HRB 69 - 100	**Tensile Load, Min. (lbf):** 3,144	**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):** 1,886
Calculated Shear Load-THREADS (ref.)(lbf): 1,572	**Straightness Factor:** 0.021	**Calculated Pretension[2] (lbf) :** 1,415
Tightening Torque [1]: 8 ft.lbf, 97 in.lbf, 11.0 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.

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