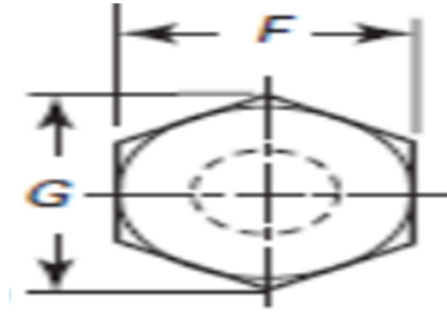
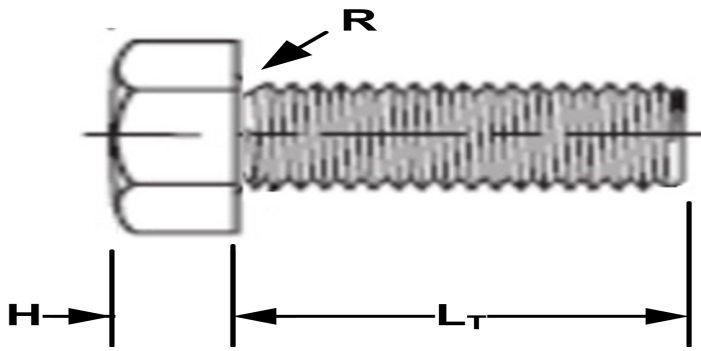


Hex Tap Bolts



F 468K

GRADE MARK

THREAD DATA		
Size: 1/2	Threads per in.: 13	Series Designation: UNC
Thread Class or Type: 2A	Major Diameter: 0.4985 - 0.4876	Pitch and Functional Dia.: 0.4485 - 0.4435
Tensile Stress Area: 0.1419	Standard: ASME B1.1 - 2003 (R2008)	
DIMENSIONAL DATA		
Type: Hex Tap Bolts	Standard: IFI - 199	Nominal Diameter: 0.5
F - Width Across Flats: 0.750 - 0.725	G - Width Across Corners: 0.866 - 0.826	R - Fillet Radius: 0.030 - 0.010
H - Head Height: 0.364 - 0.302	L _T - Thread Length for Screw Length 6 in. or less: Fully Threaded	Point Type: Non-pointed
L - Length: 1-1/2	Length Tolerance: +0.04/-0.06	
PHYSICAL REQUIREMENTS		
Nominal: 0.5	Standard: ASTM F468-2013, Silicon Bronze	Typical Materials: Cu 651
Hardness: HRB 95 - 75	Tensile Load, Min. (lbf): 9933	Yield PSI, 2% Offset, Machined Specimen: 55,000
Tensile Strength, Min. (psi): 70,000	Tensile Strength, Max. (psi): 100,000	Calculated Shear Load-BODY (ref.)(lbf): 5,960
Calculated Shear Load-THREADS (ref.)(lbf): 4,967	Straightness Factor: N/A	Calculated Pretension ² (lbf) : 5,853
Tightening Torque ¹ : 49 ft.lbf, 585 in.lbf, 66.1 Nm		
FINISH DATA		
Finish: As received steel	K factor (ref. DIN 946): 0.2	

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.

