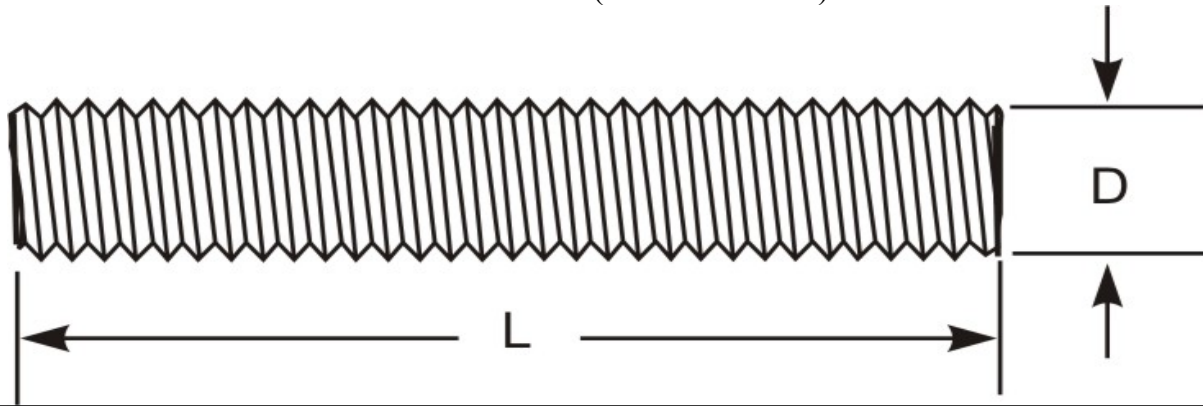


Threaded Rod (3/4 and smaller)



THREAD DATA		
Size: 5/16	Threads per in.: 18	Series Designation: UNC
Thread Class or Type: 1A	Major Diameter: 0.3113 - 0.2982	Pitch and Functional Dia.: 0.2752 - 0.2691
Tensile Stress Area: 0.0524	Standard: ASME B1.1 - 2003 (R2008)	
DIMENSIONAL DATA		
Group: Threaded Rod-Inch	Type: Threaded Rod (3/4 and smaller)	Standard: ASME B18.31.3 - 2014
Size: 5/16	TPI: 18	Nominal: 0.313
Ends: Sheared	L - Length: 12 foot	Length Tolerance: +/- 1/2
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-THREADS (ref.)(lbf): 1,572
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.

