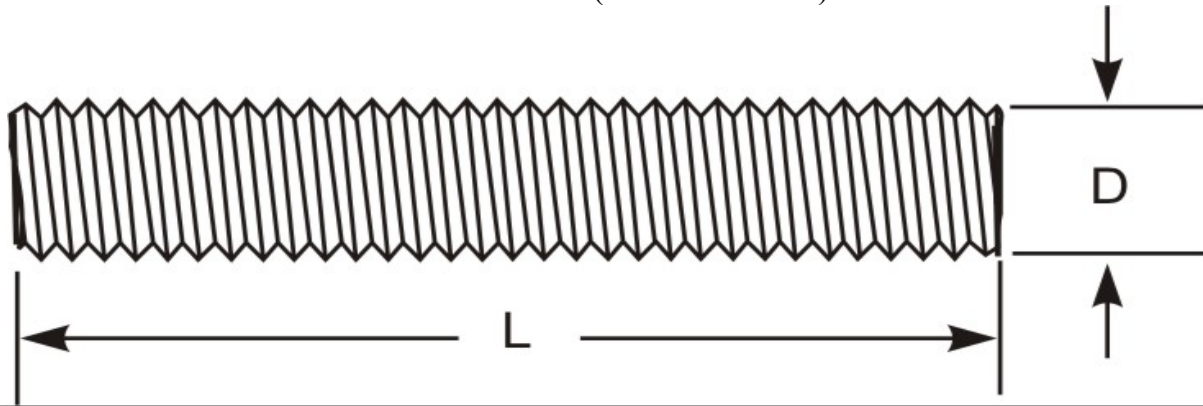


## Threaded Rod (3/4 and smaller)



THREAD DATA		
<b>Size:</b> 1/4	<b>Threads per in.:</b> 20	<b>Series Designation:</b> UNC
<b>Thread Class or Type:</b> 1A	<b>Major Diameter:</b> 0.2489 - 0.2367	<b>Pitch and Functional Dia.:</b> 0.2164 - 0.2108
<b>Tensile Stress Area:</b> 0.0318	<b>Standard:</b> ASME B1.1 - 2003 (R2008)	
DIMENSIONAL DATA		
<b>Group:</b> Threaded Rod-Inch	<b>Type:</b> Threaded Rod (3/4 and smaller)	<b>Standard:</b> ASME B18.31.3 - 2014
<b>Size:</b> 1/4	<b>TPI:</b> 20	<b>Nominal:</b> 0.25
<b>Ends:</b> Sheared	<b>L - Length:</b> 6 foot	<b>Length Tolerance:</b> +/- 1/2
PHYSICAL REQUIREMENTS		
<b>Nominal:</b> 0.25	<b>Standard:</b> ASTM F593-2013a, Condition CW1_18-8/304	<b>Typical Materials:</b> stainless steel, 304, 304L, 305, 384, 18-9LW, 302HQ
<b>Hardness:</b> HRB 95 - C32	<b>Tensile Load, Min. (lbf):</b> 3,180	<b>Tensile Load, Max. (lbf):</b> 4,770
<b>Yield PSI, 2% Offset, Machined Specimen:</b> 65,000	<b>Elongation, min. %, Machined Specimen:</b> 20% in 4D	<b>Tensile Strength, Min. (psi):</b> 100,000
<b>Tensile Strength, Max. (psi):</b> 150,000	<b>Calculated Shear Load-THREADS (ref.)(lbf):</b> 1,590	<b>Tightening Torque <sup>1</sup>:</b> 6 ft.lbf, 78 in.lbf, 8.8 Nm
FINISH DATA		
<b>Finish:</b> As received steel	<b>K factor (ref. DIN 946):</b> 0.2	

<sup>1</sup> 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.

\*Product meets all requirements of the referenced standard, however the manufacturer does not certify to that standard and threaded rod is not marked for grade or manufacturer. Test reports are available if requested.

\*If specification certified product is required we can source that for you or offer to have the stock product re-tested and certified by a third party accredited laboratory.

