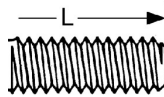
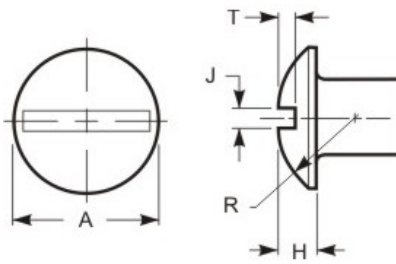


Truss Head - Sld



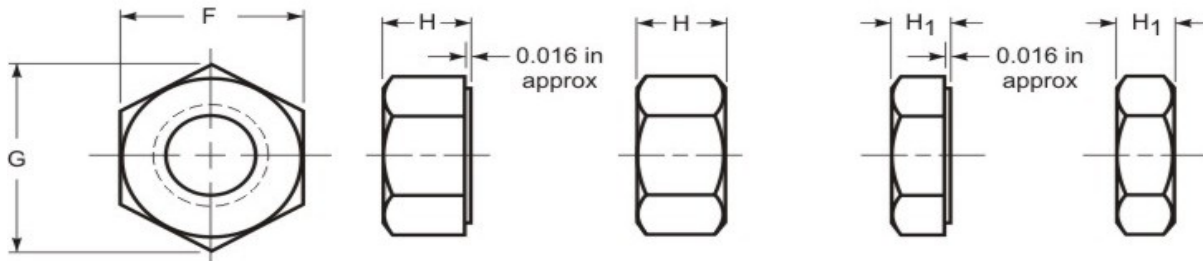
GRADE MARK

| THREAD DATA | | |
|--|---|--|
| Size: 1/4 | Threads per in.: 20 | Series Designation: UNC |
| Thread Class or Type: 2A | Major Diameter: 0.2489 - 0.2408 | Pitch and Functional Dia.: 0.2164 - 0.2127 |
| Tensile Stress Area: 0.0318 | Standard: ASME B1.1 - 2003 (R2008) | |
| DIMENSIONAL DATA | | |
| Type: Truss Head - Sld | Standard: ASME B18.6.3 - 2013 | Nominal Diameter: 0.25 |
| A - Head Diameter: 0.573 - 0.546 | H - Head Height: 0.150 - 0.133 | J - Slot Width: 0.075 - 0.064 |
| T - Slot Depth: 0.087 - 0.070 | L - Length: 1-1/4 | Length Tolerance: -0.06 |
| PHYSICAL REQUIREMENTS | | |
| Nominal: 0.25 | Standard: ASME B18.6.3-2013, Machine Screw (carbon steel) | Typical Materials: low carbon steel, 1010 through 1022 |
| Hardness: HRB 100 - 70 | Tensile Load, Min. (lbf): 1,908 | Yield PSI, 2% Offset, Machined Specimen: 36,000 |
| Tensile Strength, Min. (psi): 60,000 | Calculated Shear Load-BODY (ref.)(lbf): 1,145 | Calculated Shear Load-THREADS (ref.)(lbf): 954 |
| Straightness Factor: N/A | Calculated Pretension ² (lbf) : 859 | Tightening Torque ¹ : 4 ft.lbf, 47 in.lbf, 5.3 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.



Hex



NO MARK

GRADE MARK

| THREAD DATA | | |
|---|--|--|
| Size: 1/4 | Threads per in.: 20 | Series Designation: UNC |
| Thread Class or Type: 2B | Pitch and Functional Dia.: 0.2224 - 0.2175 | Minor Dia Max/Min.: 0.2070 - 0.1960 |
| Tensile Stress Area: 0.0318 | Standard: ASME B1.1 - 2003 (R2008) | |
| DIMENSIONAL DATA | | |
| FILTER - Thread Class or Type: 2B | Type: Hex | Standard: ASME B18.2.2-2015 |
| Size: 1/4 | Nominal: 0.25 | F - Width Across Flats: 0.438 - 0.428 |
| G - Width Across Corners: 0.505 - 0.488 | H - Thickness: 0.226 - 0.212 | Runout of Bearing Surface, FIM Proof Stress Up to 150,000 psi: 0.015 Max |
| Runout of Bearing Surface Proof Stress 150,000 psi and Greater: 0.010 Max | | |
| PHYSICAL REQUIREMENTS | | |
| Nominal: 0.25 | Type: Hex | Grade: Grade 2, SAE J995-2017 |
| Typical Material: carbon steel | Hardness: HRC 32 max. | Proof Stress, psi.: 90,000 |
| Proof Load, lbs.: 2,862 | | |
| 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 |

