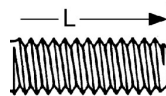
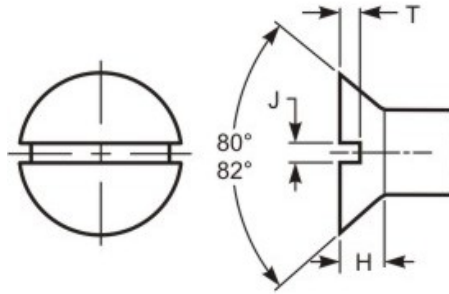


80°/82° - Flat Head - Slted



GRADE MARK

| THREAD DATA | | |
|--|---|---|
| Size: 3/8 | Threads per in.: 16 | Series Designation: UNC |
| Thread Class or Type: 2A | Major Diameter: 0.3737 - 0.3643 | Pitch and Functional Dia.: 0.3331 - 0.3287 |
| Tensile Stress Area: 0.0775 | Standard: ASME B1.1 - 2003 (R2008) | Length: 1 |
| Length Tolerance: -0.03 | | |
| DIMENSIONAL DATA | | |
| Type: 80°/82° - Flat Head - Slted | Standard: ASME B18.6.3 - 2013 | Nominal Diameter: 0.375 |
| A - Head Diameter: 0.717 - 0.670 | H - Head Height: 0.230 ref | J - Slot Width: 0.094 - 0.081 |
| T - Slot Depth: 0.106 - 0.070 | F - Protrusion Height: 0.065 - 0.039 | G - Gage Diameter: 0.653 |
| PHYSICAL REQUIREMENTS | | |
| Nominal: 0.375 | 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): 4,650 | Yield PSI, 2% Offset, Machined Specimen: 36,000 |
| Tensile Strength, Min. (psi): 60,000 | Calculated Shear Load-BODY (ref.)(lbf): 2,790 | Calculated Shear Load-THREADS (ref.)(lbf): 2,325 |
| Straightness Factor: N/A | Calculated Pretension ² (lbf) : 2,093 | Tightening Torque ¹ : 14 ft.lbf, 173 in.lbf, 19.5 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.