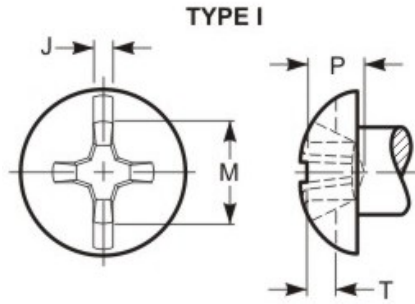


Round Head- Type I (Phillips) - Combination Slt



This type of recess has a large center opening, tapered wings, and blunt bottom, with all edges relieved or rounded. A slot crosses the head aligned with one pair of wings.



GRADE MARK

| THREAD DATA | | |
|--|---|--|
| Size: #10 | Threads per in.: 32 | Series Designation: UNF |
| Thread Class or Type: 2A | Major Diameter: 0.1891 - 0.1831 | Pitch and Functional Dia.: 0.1688 - 0.1658 |
| Tensile Stress Area: 0.0200 | Standard: ASME B1.1 - 2003 (R2008) | Length: 1/2 |
| Length Tolerance: -0.02 | | |
| DIMENSIONAL DATA | | |
| Type: Round Head- Type I (Phillips) - Combination Slt | Standard: ASME B18.6.3 - 2013 | Nominal Diameter: 0.19 |
| A - Head Diameter: 0.359 - 0.334 | H - Head Height: 0.137 - 0.123 | J - Slot Width: 0.060 - 0.050 |
| T - Slot Depth: 0.087 - 0.065 | Driver Size: 2 | Penetration Depth: 0.108 - 0.082 |
| Wobble: 12° | M - Ref. Recess Dim.: 0.188 | |
| PHYSICAL REQUIREMENTS | | |
| Nominal: 0.19 | 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): 1,200 | Yield PSI, 2% Offset, Machined Specimen: 36,000 |
| Tensile Strength, Min. (psi): 60,000 | Calculated Shear Load-BODY (ref.)(lbf): 720 | Calculated Shear Load-THREADS (ref.)(lbf): 600 |
| Straightness Factor: N/A | Calculated Pretension ² (lbf) : 540 | Tightening Torque ¹ : 2 ft.lbf, 23 in.lbf, 2.6 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.