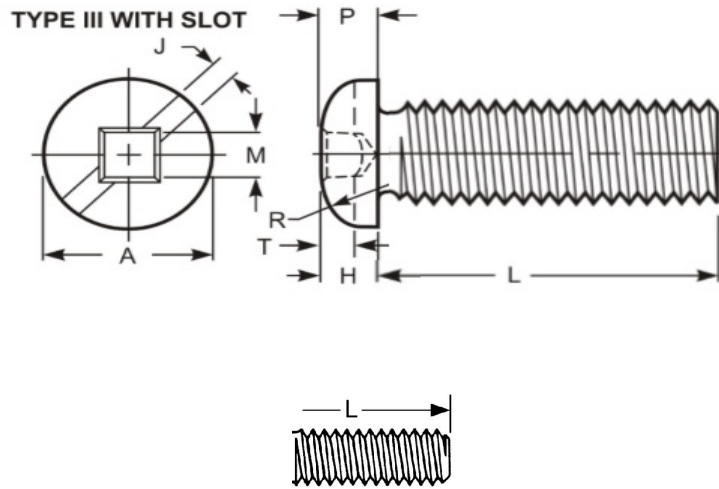


## Round Head- Type III/Sltd Combo (square socket/slot combo)



### GRADE MARK

| THREAD DATA   |  |  |
|---|--|--|
| <b>Size: #6</b>   | <b>Threads per in.: 32</b>                                       | <b>Series Designation: UNC</b>                                   |
| <b>Thread Class or Type: 2A</b>   | <b>Major Diameter: 0.1372 - 0.1312</b>                           | <b>Pitch and Functional Dia.: 0.1169 - 0.1141</b>                |
| <b>Tensile Stress Area: 0.0091</b>  | <b>Standard: ASME B1.1 - 2003 (R2008)</b>                        |  |
| DIMENSIONAL DATA  |  |  |
| <b>Type: Round Head- Type III/Sltd Combo (square socket/slot combo)</b>   | <b>Standard: ASME B18.6.3 - 2013</b>                             | <b>Nominal Diameter: 0.138</b>                                   |
| <b>A - Head Diameter: 0.260 - 0.240</b>                                   | <b>H - Head Height: 0.103 - 0.091</b>                            | <b>J - Slot Width: 0.048 - 0.039</b>                             |
| <b>T - Slot Depth: 0.068 - 0.051</b>                                      | <b>Driver Size: 1R</b>   | <b>Penetration Depth: 0.065 - 0.050</b>                          |
| <b>M - Ref. Recess Dim.: 0.091</b>  | <b>L - Length: 2</b>   | <b>Length Tolerance: -0.06</b>                                   |
| PHYSICAL REQUIREMENTS   |  |  |
| <b>Nominal: 0.138</b>   | <b>Standard: ASME B18.6.3-2013, Machine Screw (carbon steel)</b> | <b>Typical Materials: low carbon steel, 1010 through 1022</b>    |
| <b>Hardness: HRB 100 - 70</b>   | <b>Tensile Load, Min. (lbf): 545</b>                             | <b>Yield PSI, 2% Offset, Machined Specimen: 36,000</b>           |
| <b>Tensile Strength, Min. (psi): 60,000</b>                               | <b>Calculated Shear Load-BODY (ref.)(lbf): 327</b>               | <b>Calculated Shear Load-THREADS (ref.)(lbf): 273</b>            |
| <b>Straightness Factor: 0.012</b>   | <b>Calculated Pretension<sup>2</sup> (lbf) : 246</b>             | <b>Tightening Torque<sup>1</sup>: 1 ft.lbf, 7 in.lbf, 0.8 Nm</b> |
| FINISH DATA   |  |  |
| <b>Finish: Zinc &amp; Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm</b> | <b>K factor (ref. DIN 946): 0.22</b>                             | <b>Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN</b>               |

<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.<sup>2</sup> Calculated Pretension is equal to 75% of the bolt's yield strength achieved when using the indicated Tightening Torque.

