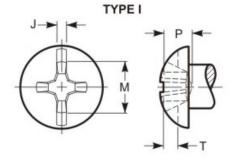
## Round Head- Type I (Phillips) - Combination Sltd



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**

	Grand Minda	
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)	Length: 1-1/2
Length Tolerance: -0.06		
DIMENSIONAL DATA		
<b>Type:</b> Round Head- Type I (Phillips) - Combination Sltd	<b>Standard:</b> ASME B18.6.3 - 2013	Nominal Diameter: 0.25
A - Head Diameter: 0.472 - 0.443	H - Head Height: 0.175 - 0.160	<b>J - Slot Width:</b> 0.075 - 0.064
T - Slot Depth: 0.109 - 0.082	Driver Size: 3	Penetration Depth: 0.130 - 0.104
Wobble: 10°	M - Ref. Recess Dim.: 0.261	
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 <sup>2</sup> (lbf): 859	Tightening Torque <sup>1</sup> : 4 ft.lbf, 47 in.lbf, 5.3 Nm
FINISH DATA		
Finish: Zinc & Clear, non-hexavalent/Cr(VI) free0001"/ 3 $\mu$ m	K factor (ref. DIN 946): 0.22	<b>Standard:</b> ASTM F1941/F1941M-2016, Fe/Zn 3AN

<sup>&</sup>lt;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.



