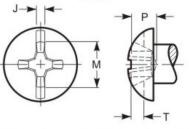
Round Head- Type I (Phillips) - Combination Sltd

TYPE I



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

Threads per in.: 20	Series Designation: UNC
Major Diameter: 0.2489 - 0.2408	Pitch and Functional Dia.: 0.2164 - 0.2127
Standard: ASME B1.1 - 2003 (R2008)	Length: 3
	-
Standard: ASME B18.6.3 - 2013	Nominal Diameter: 0.25
H - Head Height: 0.175 - 0.160	J - Slot Width: 0.075 - 0.064
Driver Size: 3	Penetration Depth: 0.130 - 0.104
M – Ref. Recess Dim.: 0.261	
Standard: ASME B18.6.3-2013, Machine Screw (carbon steel)	Typical Materials: low carbon steel, 1010 through 1022
Tensile Load, Min. (lbf): 1,908	Yield PSI, 2% Offset, Machined Specimen: 36,000
Calculated Shear Load-BODY (ref.)(lbf): 1,145	Calculated Shear Load-THREADS (ref.)(lbf): 954
Calculated Pretension ² (lbf) : 859	Tightening Torque ¹ : 4 ft.lbf, 47 in.lbf, 5.3 Nm
K factor (ref. DIN 946): 0.22	Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN
	Major Diameter: 0.2489 - 0.2408 Standard: ASME B1.1 - 2003 (R2008) Image: Standard: ASME B1.6.3 - 2013 Image: H - Head Height: 0.175 - 0.160 Driver Size: 3 Image: M - Ref. Recess Dim.: 0.261 Image: Standard: ASME B18.6.3-2013, Machine Screw (carbon steel) Image: Tensile Load, Min. (lbf): 1,908 Image: Calculated Shear Load-BODY (ref.)(lbf): 1,145 Image: Calculated Pretension ² (lbf) : 859

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.



