80°/82° - Flat Head - Type III-Type I Combo (Square-Phillips Combo)



GRADE MARK

Threads per in.: 32	Series Designation: UNC
Major Diameter: 0.1631 - 0.1571	Pitch and Functional Dia.: 0.1428 - 0.1399
Standard: ASME B1.1 - 2003 (R2008)	
Standard: ASME B18.6.3 - 2013 (reference)	Nominal Diameter: 0.164
H - Head Height: 0.100 ref	Driver Size: 2S
Wobble: Sq: 3º max.	F - Protrusion Height: 0.039 - 0.023
M – Ref. Recess Dim.: 0.182	L - Length: 1/2
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Standard: ASME B18.6.3-2013, Machine Screw (carbon steel)	Typical Materials: low carbon steel, 1010 through 1022
Tensile Load, Min. (Ibf): 840	Yield PSI, 2% Offset, Machined Specimen: 36,000
Calculated Shear Load-BODY (ref.)(lbf): 504	Calculated Shear Load-THREADS (ref.)(lbf): 420
Calculated Pretension ² (lbf) : 378	Tightening Torque ¹ : 1 ft.lbf, 14 in.lbf, 1.5 Nm
K factor (ref. DIN 946): 0.22	Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN
	Major Diameter: 0.1631 - 0.1571Standard: ASME B1.1 - 2003 (R2008)Standard: ASME B18.6.3 - 2013 (reference)H - Head Height: 0.100 refWobble: Sq: 3° max.M - Ref. Recess Dim.: 0.182Standard: ASME B18.6.3-2013, Machine Screw (carbon steel)Tensile Load, Min. (lbf): 840Calculated Shear Load-BODY (ref.)(lbf): 504Calculated Pretension ² (lbf) : 378

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.



