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



GRADE MARK

Threads per in.: 32	Series Designation: UNC
Major Diameter: 0.1372 - 0.1312	Pitch and Functional Dia.: 0.1169 - 0.1141
Standard: ASME B1.1 - 2003 (R2008)	
Standard: ASME B18.6.3 - 2013 (reference)	Nominal Diameter: 0.138
H - Head Height: 0.083 ref	Driver Size: 1S
Wobble: Sq: 3º max.	F - Protrusion Height: 0.036 - 0.021
M – Ref. Recess Dim.: 0.168	L - Length: 3/4
Standard: ASME B18.6.3-2013, Machine Screw (carbon steel)	Typical Materials: low carbon steel, 1010 through 1022
Tensile Load, Min. (Ibf): 545	Yield PSI, 2% Offset, Machined Specimen: 36,000
Calculated Shear Load-BODY (ref.)(lbf): 327	Calculated Shear Load-THREADS (ref.)(lbf): 273
Calculated Pretension ² (lbf) : 246	Tightening Torque ¹ : 1 ft.lbf, 7 in.lbf, 0.8 Nm
K factor (ref. DIN 946): 0.22	Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN
	Major Diameter: 0.1372 - 0.1312Standard: ASME B1.1 - 2003 (R2008)Standard: ASME B18.6.3 - 2013 (reference)H - Head Height: 0.083 refWobble: Sq: 3° max.M - Ref. Recess Dim.: 0.168Standard: ASME B18.6.3-2013, Machine Screw (carbon steel)Tensile Load, Min. (lbf): 545Calculated Shear Load-BODY (ref.)(lbf): 327Calculated Pretension ² (lbf) : 246

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.



