

Hex Washer Head - Unslotted and Sltd - Self-piercing Screw - Needle Point



THREAD DATA		
Size: #8	Threads per in.: 15	Series Designation: Double Lead
Thread Class or Type: DWF	Major Diameter: 0.1690 - 0.1610	Standard: ASME B18.6.1
DIMENSIONAL DATA		
Type: Hex Washer Head - Unslotted and Sltd - Self-piercing Screw - Needle Point	Standard: ASTM C1002 (DWS-Sharp Point, Fine Thread)	Nominal Diameter: 0.164
H - Head Height: 0.110 - 0.096	Point Type: Sharp 20° - 30°	J - Slot Width: 0.054 - 0.045
T - Slot Depth: 0.074 - 0.052	F - Protrusion Height: 0.058 Min	G - Gage Diameter: 0.272
A - Hex AF: 0.250 - 0.244	W - Hex AC: 0.272 Min	B - Washer Diameter: 0.348 - 0.322
U - Washer Thickness: 0.031 - 0.019	Z - Min. Point Protrusion: 0.211	L - Minimum Practical Length: 3/8
L - Length: 1-1/2	Length Tolerance: ± 0.05	
PHYSICAL REQUIREMENTS		
Nominal: 0.164	Standard: ASTM C1002	Typical Materials: carbon steel: 1018-1022
Torsional Strength, Min. (in.lbf): 39	Case Hardness: HRC 45 min.	Case Depth (in.): 0.002 min.
Straightness Factor: N/A		
FINISH DATA		
Finish: Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm	K factor (ref. DIN 946): 0.22	Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN

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.

