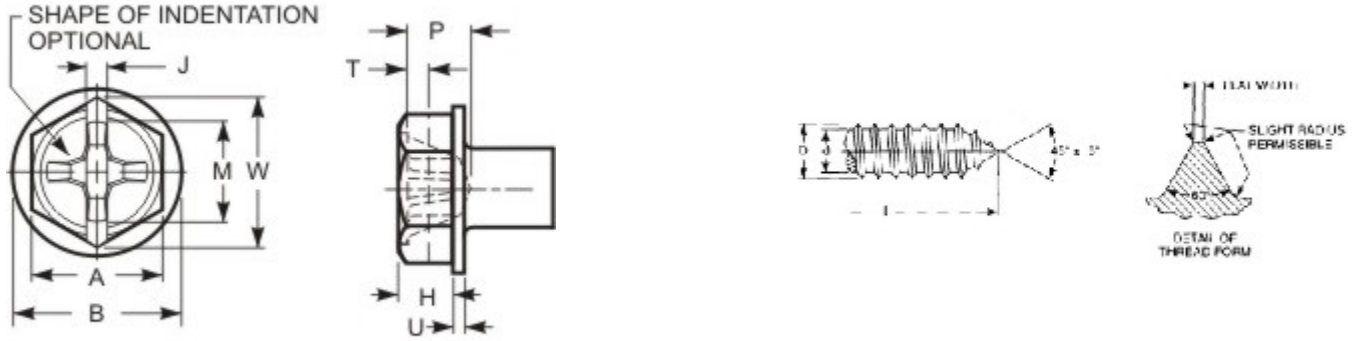


# Indented Hex Washer Head - Type I (Phillips) - Combination Slted - A, AB



THREAD DATA		
<b>Size:</b> #12	<b>Threads per in.:</b> 14	<b>Thread Class or Type:</b> AB
<b>Major Diameter:</b> 0.2150 - 0.2080	<b>Minor Dia Max/Min.:</b> 0.164 - 0.157	<b>Standard:</b> ASME B18.6.3-2013
<b>Length:</b> 1-1/4	<b>Length Tolerance:</b> ± 0.05	
DIMENSIONAL DATA		
<b>Type:</b> Indented Hex Washer Head - Type I (Phillips) - Combination Slted - A, AB	<b>Standard:</b> ASME B18.6.3 - 2013	<b>Nominal Diameter:</b> 0.216
<b>H - Head Height:</b> 0.155 - 0.139	<b>J - Slot Width:</b> 0.067 - 0.056	<b>T - Slot Depth:</b> 0.103 - 0.072
<b>Driver Size:</b> 3	<b>Penetration Depth:</b> 0.152 - 0.127	<b>Wobble:</b> 10°
<b>F - Protrusion Height:</b> 0.083 Min	<b>G - Gage Diameter:</b> 0.34	<b>A - Hex AF:</b> 0.312 - 0.305
<b>W - Hex AC:</b> 0.340 Min	<b>B - Washer Diameter:</b> 0.432 - 0.398	<b>U - Washer Thickness:</b> 0.039 - 0.022
<b>M - Ref. Recess Dim.:</b> 0.247		
PHYSICAL REQUIREMENTS		
<b>Nominal:</b> 0.216	<b>Standard:</b> ASME B18.6.3-2013, Type AB (carbon steel)	<b>Typical Materials:</b> carbon steel: 1018-1022
<b>Test Plate Thickness in.:</b> 0.1270 - 0.1230	<b>Test Plate Hole Size in.:</b> 0.1875	<b>Torsional Strength, Min. (in.lbf):</b> 88
<b>Core Hardness:</b> HRC 28 - 38	<b>Case Hardness:</b> HRC 45 Min.	<b>Case Depth (in.):</b> .009-.004
<b>Ductility Test Angle:</b> 10°	<b>Straightness Factor:</b> N/A	
FINISH DATA		
<b>Finish:</b> Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm	<b>K factor (ref. DIN 946):</b> 0.22	<b>Standard:</b> ASTM F1941/F1941M-2016, Fe/Zn 3AN

<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.

