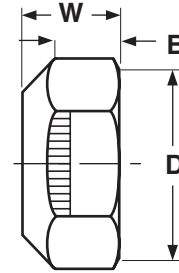
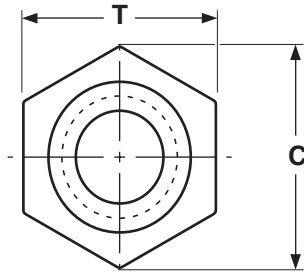


# Nuts

# METRIC

DIN 980V & ASME  
B18.16.3 Prevailing  
Torque Hex Nuts



METRIC--PREVAILING-TORQUE TYPE STEEL HEX NUTS					DIN 980V
Nominal Size	Thread Pitch	T		C	W
		Width Across Flats		Width Across Corners	Thickness
		Nom	Min	Min	Min
M6	1.00	10	11.05	6	
M8	1.25	13	14.38	8	
M10	1.25	16	18.90	10	

METRIC--PREVAILING-TORQUE TYPE STEEL HEX NUTS								ASME B18.16.3M	
Nominal Size	Thread Pitch	T		C		W		B	D
		Width Across Flats		Width Across Corners		Thickness		Wrenching Height	Bearing Face Diam.
		Max	Min						
M10	1.50	16.00	15.73	18.48	17.77	9.00	8.04	4.8	14.6
M12	1.50	18.00	17.73	20.78	20.03	11.60	10.37	6.7	16.6
M12	1.75	18.00	17.73	20.78	20.03	11.60	10.37	6.7	16.6
M20	2.50	30.00	29.16	34.64	32.95	19.00	16.90	10.9	27.7
M24	3.00	36.00	35.00	41.57	39.55	23.00	20.20	13.0	33.2

<b>Description</b>	An all-metal, one-piece hex nut which derives its prevailing torque characteristics from controlled distortion of its top threads from their normal helical form to a more elliptical shape.
<b>Applications/ Advantages</b>	These nuts are reusable. Can withstand severe vibration and shock loads. Frequently used in farm machinery, plus the automotive and related metalworking industries.
<b>Material</b>	Nuts shall be made from a low-carbon steel which conforms to the following chemical composition requirements-- <i>Carbon:</i> 0.58% max.; <i>Manganese:</i> 0.27% min.; <i>Phosphorus:</i> 0.048% max.; <i>Sulfur:</i> 0.058% max. (0.24% max if milled from the bar).
<b>Heat Treatment</b>	Nuts are heat treated to meet the mechanical and performance requirements noted on this page.
<b>Hardness</b>	Rockwell C26 - C36
<b>Proof Load</b>	<i>M3 through M10:</i> 1040 MPa <i>M12 through M16:</i> 1050 MPa <i>M20 through M36:</i> 1060 MPa
<b>Plating</b>	Parts are typically supplied with a cadmium and wax finish; see Appendix-A for additional information.