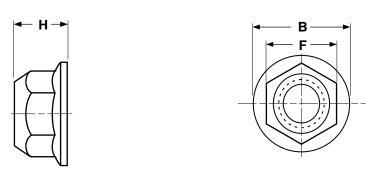
Nuts

METRIC



METRIC DIN 6923 HEX FLANGE NUTS DIN 6923							
	Thread Pitch	F Width Across Flats		н		В	
Nominal Size				Overall Height		Flange Diameter	
		Мах	Min	Мах	Min	Мах	
M6	1	10.00	9.78	6.0	5.7	14.2	
M8	1.25	13.00	12.73	8.0	7.6	17.9	
M10	1.5	15.00	14.73	10.0	9.6	21.8	
M12	1.75	18.00	17.73	12.0	11.6	26	

Description	A hex nut with an enlarged circular base flaring out from the bottom of the nut, and a metric thread pitch. The bearing surface of the flange is smooth.			
Applications/ Advantages	Class 8 nuts are intended for use with screws and bolts of property class 8.8 or lower. The flange design will span oversized or poorly aligned holes. The flange provides a more uniform bearing-stress to clamp-force ratio.	Class 10 nuts are intended for use with screws and bolts of property class 10.9 or lower. The flange design will span oversized or poorly aligned holes. The flange provides a more uniform bearing-stress to clamp-force ratio.		
	Class 8	Class 10		
Material	Class 8 nuts shall be made of a steel which conforms to the following chemical composition <i>Carbon</i> : 0.58% maximum; <i>Manganese</i> : 0.25% minimum; <i>Phosphorus</i> : 0.060% maximum; <i>Sulfur</i> : 0.150% maximum.	Class 10 nuts shall be made of a steel which conforms to the following chemical composition <i>Carbon</i> : 0.58% maximum; <i>Manganese</i> : 0.30% minimum; <i>Phosphorus</i> : 0.048% maximum; <i>Sulfur</i> . 0.058% maximum.		
Heat Treatment	Class 8 nuts of diameter less than 18mm do not require heat treatment.	Class 10 nuts shall be heat treated by quenching in a liquid medium from a temperature above the transformation temperature and tempering at a temperature of at least 425°C.		
Hardness	Diameters M5 thru M16: Vickers HV 188 - 302	Diameters M5 thru M20: Vickers HV 272 - 353		
Proof Load	<i>Diameters M5 thru M6:</i> 117,450 psi. <i>Diameters M8 thru M10:</i> 120,350 psi. <i>Diameters M12 thru M16:</i> 121,800 psi.	<i>Diameters M5 thru M10:</i> 150,800 psi. <i>Diameters M12 thru M16:</i> 152,250 psi.		
Plating	Available in various finishes, including to RoHS specifications.			