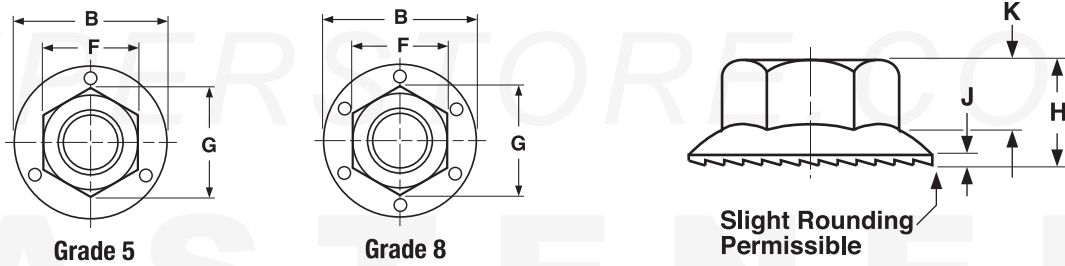


Grades 5 & 8 **SERRATED HEX FLANGE**



SERRATED HEX FLANGE LOCK NUTS—GRADES 5 & 8											ASME B18.16.4 & SAE J995*	
Nominal Size or Basic Major Diameter of Thread		F		G		B		H		K	J	
		Width Across Flats		Width Across Corners		Flange Diameter		Nut Thickness		Wrenching Height	Flange Thickness	
		Max	Min	Max	Min	Max	Min	Max	Min	Min	Min	
10	0.1900	0.375	0.365	0.433	0.416	0.500	0.480	0.219	0.203	0.13	0.03	
1/4	0.2500	0.438	0.428	0.505	0.488	0.594	0.574	0.236	0.222	0.14	0.04	
5/16	0.3125	0.500	0.489	0.577	0.557	0.680	0.660	0.283	0.268	0.17	0.04	
3/8	0.3750	0.562	0.551	0.650	0.628	0.750	0.728	0.347	0.330	0.23	0.04	
7/16	0.4375	0.688	0.675	0.794	0.768	0.937	0.910	0.395	0.375	0.26	0.04	
1/2	0.5000	0.750	0.736	0.866	0.840	1.031	1.000	0.458	0.437	0.31	0.05	
9/16	0.5625	0.875	0.861	1.010	0.982	1.188	1.155	0.506	0.483	0.35	0.05	
5/8	0.6250	0.938	0.922	1.083	1.051	1.281	1.248	0.569	0.545	0.40	0.05	
3/4	0.7500	1.125	1.088	1.299	1.240	1.500	1.460	0.675	0.627	0.46	0.06	

Description	Hex nut with an enlarged circular base flaring out from the bottom of the nut. The bearing surface of the flange has serrations which displace material on the mating surface when the nut is wrenched into place, forming a connection which resists loosening.	
Applications/ Advantages	Requires a greater amount of torque to loosen than to tighten the nut. Will span oversized or poorly aligned holes. Flange provides a more uniform bearing-stress to clamp-force ratio than other low carbon lock nuts. Does not gall screw threads. Grade 5 nuts are designed to be used with Grade 5 screws and bolts; Grade 8 nuts are designed to be used with Grade 8 screws and bolts.	
Material	<i>Grade 5</i> Nuts shall be made from a carbon steel which conforms to the following chemical composition requirements-- Carbon: 0.55% max.; Manganese: 0.30% min.; Phosphorus: 0.05% max.; Sulfur: 0.15% max.	<i>Grade 8</i> Nuts shall be made from a carbon steel which conforms to the following chemical composition requirements-- Carbon: 0.55% max.; Manganese: 0.30% min.; Phosphorus: 0.04% max.; Sulfur: 0.05% max.
Proof Load	Coarse thread: 120,000 psi.; Fine thread: 109,000 psi.	Coarse thread: 150,000 psi.; Fine thread: 150,000 psi.
Hardness	Rockwell 32 HRC max	
Plating	Grade 5 Flange Nuts are usually supplied in zinc finish	Grade 8 Flange Nuts are usually supplied in zinc yellow finish

*Dimensions are to ASME B18.16.4; material and performance requirements are to SAE J995.