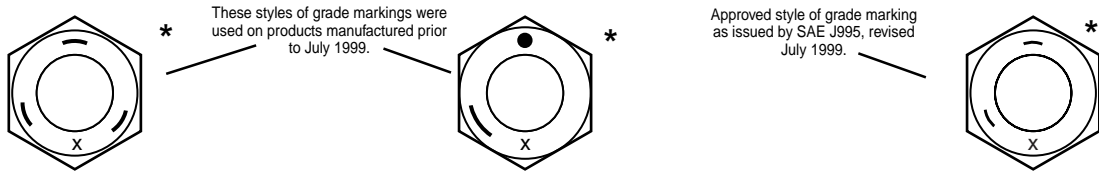
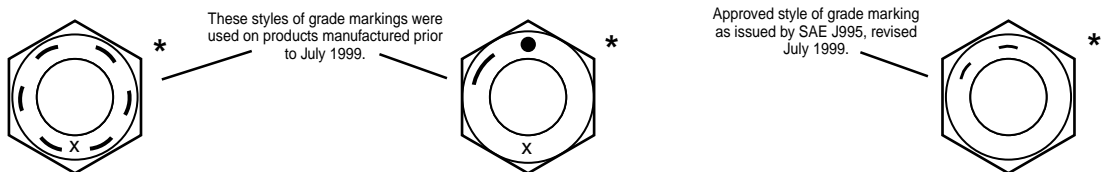


GRADE-5 & GRADE-8 FINISHED HEX NUTS										ANSI/ASME B18.2.2
Nominal or Basic Major Diameter of Thread		F			G		H			
		Width Across Flats			Width Across Corners		Thickness of Hex Nuts			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1/4	0.2500	7/16	0.438	0.428	0.505	0.488	7/32	0.226	0.212	
5/16	0.3125	1/2	0.500	0.489	0.577	0.557	17/64	0.273	0.258	
3/8	0.3750	9/16	0.562	0.551	0.650	0.628	21/64	0.337	0.320	
7/16	0.4375	11/16	0.688	0.675	0.794	0.768	3/8	0.385	0.365	
1/2	0.5000	3/4	0.750	0.736	0.866	0.840	7/16	0.448	0.427	
9/16	0.5625	7/8	0.875	0.861	1.010	0.982	31/64	0.496	0.473	
5/8	0.6250	15/16	0.938	0.922	1.083	1.051	35/64	0.559	0.535	
3/4	0.7500	1-1/8	1.125	1.088	1.299	1.240	41/64	0.665	0.617	
7/8	0.8750	1-5/16	1.312	1.269	1.516	1.447	3/4	0.776	0.724	
1	1.0000	1-1/2	1.500	1.450	1.732	1.653	55/64	0.887	0.831	
1 1/8	1.1250	1-11/16	1.688	1.631	1.949	1.859	31/32	0.999	0.939	
1 1/4	1.2500	1-7/8	1.875	1.812	2.165	2.066	1 1/16	1.094	1.030	
1 3/8	1.375	2-1/16	2.062	1.994	2.382	2.273	1 11/64	1.206	1.138	
1 1/2	1.5000	2-1/4	2.250	2.175	2.598	2.480	1 9/32	1.317	1.245	



## GRADE-5

<b>Description</b>	A finished hex nut made from steel with a maximum carbon content of 0.55%, a minimum manganese content of 0.30%, and a maximum sulfur content of 0.15%.
<b>Applications/ Advantages</b>	For use with bolts with a minimum tensile strength equal to or less than the specified proof stress of the nut.
<b>Material</b>	AISI 1008 - 1026 or equivalent steel
<b>Core Hardness</b>	Rockwell C32 maximum
<b>Proof Load</b>	<i>1/4 through 1 in. Coarse thread:</i> 120,000 psi.; <i>Fine thread:</i> 109,000 psi. <i>1-1/8 through 1-1/2 in. Coarse thread:</i> 105,000 psi.; <i>Fine thread:</i> 94,000 psi.
<b>Plating</b>	See Appendix-A for plating information.



## GRADE-8

<b>Description</b>	A finished hex nut made from steel with a maximum carbon content of 0.55%, a minimum manganese content of 0.30% and a maximum sulfur content of 0.05%. The purchaser and producer of the nuts may agree to allow a sulfur content of 0.33% maximum provided that the manganese content is at least 1.35%.
<b>Applications/ Advantages</b>	For use with bolts with a minimum tensile strength equal to or less than 150,000 psi..
<b>Material</b>	AISI 1021 - 1045 or equivalent steel
<b>Core Hardness</b>	<i>1/4 through 5/8 in.:</i> Rockwell C24 - C32 <i>3/4 through 1 in.:</i> Rockwell C26 - C34 <i>Over 1 in. through 1-1/2 in.:</i> Rockwell C26 - C36
<b>Proof Load</b>	<i>1/4 through 1-1/2 in.:</i> 150,000 psi.
<b>Plating</b>	See Appendix-A for plating information.

\*Product standards require all grade-marked nuts 1/4" diameter and larger to have a raised or depressed insignia identifying its manufacturer. "X" represents one location such an insignia may appear.