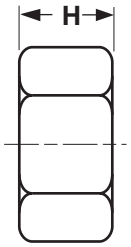
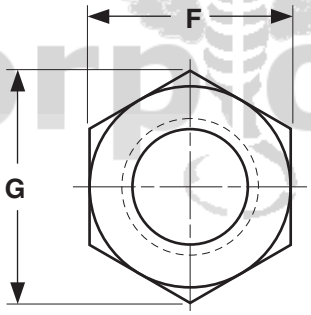
THICK HEX

Grade 9





THICK HEX NUTS

ASME B18.2.2--2010

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	9/32	0.288	0.274
5/16	0.3125	1/2	0.500	0.489	0.577	0.557	21/64	0.336	0.320
3/8	0.3750	9/16	0.562	0.551	0.650	0.628	13/32	0.415	0.398
7/16	0.4375	11/16	0.688	0.675	0.794	0.768	29/64	0.463	0.444
1/2	0.5000	3/4	0.750	0.736	0.866	0.840	9/16	0.573	0.552
9/16	0.5625	7/8	0.875	0.861	1.010	0.982	39/64	0.621	0.598
5/8	0.6250	15/16	0.938	0.922	1.083	1.051	23/32	0.731	0.706
3/4	0.7500	1-1/8	1.125	1.088	1.299	1.240	13/16	0.827	0.798
7/8	0.8750	1-5/16	1.312	1.269	1.516	1.447	29/32	0.922	0.890



GRADE-9

Description	A thick hex nut made from steel with a maximum carbon content of 0.55%, a minimum manganese content of 0.60% and a maximum sulfur content of 0.05%. Nuts are thicker than heavy hex nuts of the same nominal size.
Applications/ Advantages	For use with bolts with a minimum tensile strength equal to or less than 180,000 psi..
Material	Nuts shall be made from a steel which conforms to the following chemical composition requirements: ***Carbon***: 0.20-0.55%; ***Manganese***: 0.60% minimum; ***Phosphorous***: 0.04% maximum; ***Sulfur***: 0.05% maximum
Hardness	1/4 through 5/8 in.: Rockwell C32 - C38 3/4 and 7/8 in.: Rockwell C35 - C40
Proof Load	180,000 psi.
Plating	EcoGuard™ 1000-hour gray/silver coating