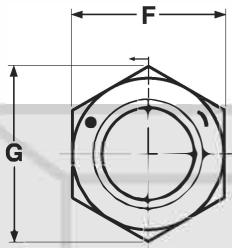


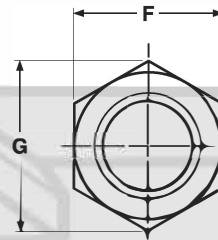
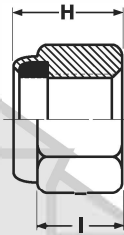
NUTS

NYLON INSERT (ELASTIC) STOP

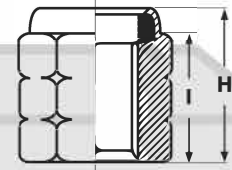
Light Hex, Grades 5 & 8



Grade-5



Grade-8



NYLON INSERT STOP NUTS, LIGHT HEX, GRADES 5 & 8

 ASME
B18.16.6
2017

Nominal Size or Basic Thread Diameter		F		H		I	G	GRADE-5 Proof Loads, Lb.		GRADE-8 Proof Loads, Lb.	
		Width Across Flats		Thickness		Side Height	Width Across Corners				
		Max	Min	Max	Min	Ref	Ref	Coarse	Fine	Coarse	Fine
1/4	0.2500	.439	.430	.328	.298	.225	.482	3,800	4,000	4,750	5,450
5/16	0.3125	.502	.492	.359	.329	.250	.552	6,300	6,350	7,850	8,700
3/8	0.3750	.564	.553	.468	.438	.335	.622	9,300	9,550	11,600	13,200
7/16	0.4375	.627	.616	.468	.438	.324	.694	12,800	13,000	15,900	17,800
1/2	0.5000	.752	.741	.609	.579	.464	.837	17,000	17,400	21,300	24,000
9/16	0.5625	.877	.865	.656	.626	.469	.978	21,800	22,100	27,300	30,400
5/8	0.6250	.940	.928	.765	.735	.593	1.051	27,200	27,900	33,900	38,400
3/4	0.7500	1.064	1.052	.890	.860	.742	1.191	40,100	40,700	50,100	56,000
7/8	0.8750	1.252	1.239	.999	.969	.790	1.403	55,400	55,500	63,900	76,400
1	1.0000	1.440	1.427	1.078	1.016	.825	1.615	72,700	74,100	90,900	101,900
1-1/8	1.1250	1.627	1.614	1.203	1.141	.930	1.826	80,100	80,400	115,000	128,000
1-1/4	1.2500	1.814	1.801	1.422	1.360	1.125	2.038	101,700	100,900	145,000	161,000
1-3/8	1.3750	2.008	1.973	1.609	1.547	1.282	2.232	121,300	123,600	173,000	197,000
1-1/2	1.5000	2.197	2.159	1.640	1.578	1.313	2.416	147,500	148,600	211,000	237,000

Description	Heat treated hex nut with a nylon-filled collar at its back end. The grade-5 nut shall be marked with a dot and dash on the chamfered surface of the nut, 120° apart. The grade-8 nut shall be grade-marked in one of two ways: (1) with double notched corners or (2) with six symmetrically spaced identical symbols on the chamfered surface on top of the nut. When the cap-screw or bolt reaches the collar, the threads and nylon form a tight, frictional fit, restricting movement of the cap-screw or bolt when it is subjected to vibration. The nylon insert comes in various colors.	
Applications/ Advantages	Designed to be used in structural applications with Grade-5 cap-screws or bolts which have a minimum tensile strength of 120,000 psi.. Nylon insert nuts are not designed to be used at temperatures over 250° F.	Designed to be used in structural applications with Grade-8 cap-screws or bolts which have a minimum tensile strength of 150,000 psi. or greater. Some such applications include engines, turbines, hydraulic cylinders, railroads and aerospace. Nylon insert nuts are not designed to be used at temperatures over 250° F.
Material	Shall be made from a low carbon steel that conforms to the following chemical composition: <i>Carbon</i> : 0.55% max.; <i>Manganese</i> : 0.30% min.; <i>Phosphorous</i> : 0.05% max.; <i>Sulfur</i> : 0.05% max.	Heat treated AISI C1137 or equivalent steel.
Hardness	Rockwell C28 max.	Rockwell C 26 - 34
Proof Load	Minimum requirements for each nominal diameter are listed in the table above.	Minimum requirements for each nominal diameter are listed in the table above.
Plating	Grade-5 nylon insert stop nuts are usually supplied zinc-plated.	Grade-8 nylon insert stop nuts are usually supplied zinc yellow-plated. See Appendix-A for more information.