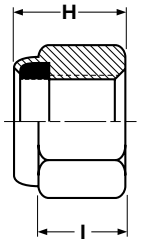
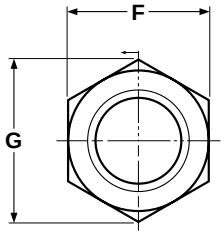
Nylon Insert (Elastic) Stop Nuts

Standard Pattern





Nylon Insert Stop Nuts, Standard Pattern

Esna®

Nominal Size or Basic Thread Diameter		Esna® Part Numbers				F			H		I	G
		Steel, Zinc-plate		Stainless		Width Across Flats			Thickness		Side Height	Width Across Corners
		Coarse	Fine	Coarse	Fine	Basic	Max	Min	Max	Min	Ref	Ref
2	0.0860	21NM-26	--	79NM-26	--	1/4	0.251	0.243	0.153	0.133	0.081	0.268
4	0.1120	21NM-40	--	79NM-40	--	1/4	0.251	0.243	0.153	0.133	0.081	0.268
5	0.1250	21NM-50	--	--	--	1/4	0.251	0.243	0.153	0.133	0.081	0.268
6	0.1380	21NM-62	--	79NM-62	--	5/16	0.313	0.305	0.188	0.168	0.103	0.339
8	0.1640	21NM-82	--	79NM-82	--	11/32	0.345	0.336	0.239	0.219	0.140	0.374
10	0.1900	21NM-04	21NM-02	79NM-04	79NM-02	3/8	0.376	0.367	0.249	0.229	0.140	0.410
1/4	0.2500	21NE-040	21NE-048	79NE-040	--	7/16	0.439	0.430	0.328	0.298	0.225	0.482
5/16	0.3125	21NE-058	21NE-054	79NE-058	--	1/2	0.502	0.492	0.359	0.329	0.250	0.552
3/8	0.3750	21NE-066	21NE-064	79NE-066	--	9/16	0.564	0.553	0.468	0.438	0.335	0.622
7/16	0.4375	21NE-074	21NE-070	--	--	5/8	0.627	0.616	0.468	0.438	0.324	0.698
1/2	0.5000	21NE-083	21NE-080	79NE-083	--	3/4	0.752	0.741	0.609	0.579	0.464	0.837
9/16	0.5625	21NE-092	21NE-098	--	--	7/8	0.877	0.865	0.656	0.626	0.469	0.978
5/8	0.6250	21NE-101	21NE-108	79NE-108	--	15/16	0.940	0.928	0.765	0.735	0.593	1.051
3/4	0.7500	41NE-120	41NE-126	79NE-120	--	1-1/8	1.064	1.052	0.890	0.860	0.742	1.191
7/8	0.8750	41NE-149	41NE-144	--	--	1-5/16	1.252	1.239	0.999	0.969	0.790	1.403
1	1.0000	41NE-168	41NE-164	--	--	1-1/2	1.440	1.427	1.078	1.016	0.825	1.615
1-1/8	1.1250	41NE-177	--	--	--	1-11/16	1.627	1.614	1.203	1.141	0.930	1.826
1-1/4	1.2500	41NE-197	41NE-202	--	--	1-7/8	1.815	1.801	1.422	1.360	1.125	2.038
1-1/2	1.5000	41NE-242	--	--	--	2-1/4	2.197	2.159	1.640	1.578	1.313	2.444

Description	Hex nut with a nylon-filled collar at its back end. When a screw reaches the collar, the threads and nylon form a tight, frictional fit, restricting movement of the screw when it is subjected to vibration. The nylon insert comes in various colors.	
Applications/ Advantages	Designed to be used with like-material machine screws and bolts. It is able to be reused more times than a two-way reversible nut. Steel nylon insert stop nuts are less expensive than grade-C automation lock nuts. However, nylon will begin to deteriorate at temperatures from 150^0-350^0 F.	
Material	*Steel*	*Stainless*
	#2 through 5/8" -- AISI 1008 - 1010 or equivalent steel; 3/4 through 1-1/2"-- AISI C1117 or equivalent steel.	**18-8:** AISI 303 or equivalent stainless steel. **316:** Type 316 stainless steel.
Hardness	Rockwell C28 maximum	1/4 through 5/8"-- Rockwell B95 - C32; 3/4 through 1-1/2"-- Rockwell B80 - C32
Proof Load	90,000 psi. minimum	1/4 through 5/8"-- Rockwell B95 - C32; 3/4 through 1-1/2"-- Rockwell B80 - C32
Plating	Steel nylon insert stop nuts are usually supplied with a zinc plating.	Stainless nylon insert stop nuts are usually provided without any additional plating.

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