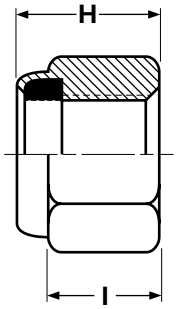
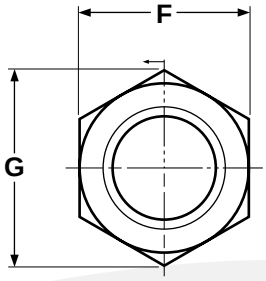
Nuts

METRIC

Nylon Insert Lock Nuts - Regular Pattern





METRIC - NYLON INSERT STOP NUTS, REGULAR PATTERN, CLASS 8 STYLE 1 — ISO 7040

Nominal Size	Thread Pitch	F		G	H		I
		Width Across Flats		Width Across Corners	Thickness		Wrenching Height
		Max	Min	Min	Max	Min	Min
M3	0.5	5.50	5.32	6.01	4.5	4.02	1.72
M4	0.7	7.00	6.78	7.66	6.00	5.52	2.32
M5	0.8	8.00	7.78	8.79	6.80	6.22	3.52
M6	1	10.00	9.78	11.05	8.00	7.42	3.92
M8	1.25	13.00	12.73	14.38	9.50	8.92	5.15
M10	1.5	16.00	15.73	17.77	11.9	11.2	6.43
M12	1.75	18.00	17.73	20.03	14.9	14.2	8.3
M16	2	24.00	23.67	26.75	19.1	17.8	11.28
M20	2.5	30.00	29.16	32.95	22.8	20.7	13.52
M24	3	36	35	39.55	27.1	25.0	16.16
M30	3.5	46	45	50.85	32.6	30.1	19.44
M36	4	55.0	53.8	60.79	38.9	36.4	23.52

Description	Hex nut with a metric thread pitch and a nylon-filled collar at its back end. Class 8, style 1 nuts of a basic diameter greater than M16 are quenched and tempered. 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	Class 8 metric nylon insert lock nuts are to be used with screw of a Class 8.8 or less. It is able to be reused more times than a two-way reversible nut. It is less expensive than a Grade-C automation lock nut. Nylon insert lock nuts are designed for use in temperatures from -73°C to +120°C.
Material	Class 8 metric nylon insert lock nuts shall be made of a steel which conforms to the following chemical composition-- *Carbon:* 0.58% maximum; *Manganese:* 0.25% minimum; *Phosphorus:* 0.060% maximum; *Sulfur:* 0.150% maximum.
Hardness	**M3 - M4:** HV 180 - 302 (Rockwell B 87.1 - C 30) **M5 - M16:** HV 200 - 302 (Rockwell B 91.5 - C 30) **M20 - M36:** HV 233 - 353 (Rockwell C 18 - C 36)
Proof Load (N/mm^2)	**M3 - M4:** 800 **M5 - M7:** 855 **M8 - M10:** 870 **M12 - M16:** 880 **M20 - M36:** 920
Plating	See Appendix-A for plating information