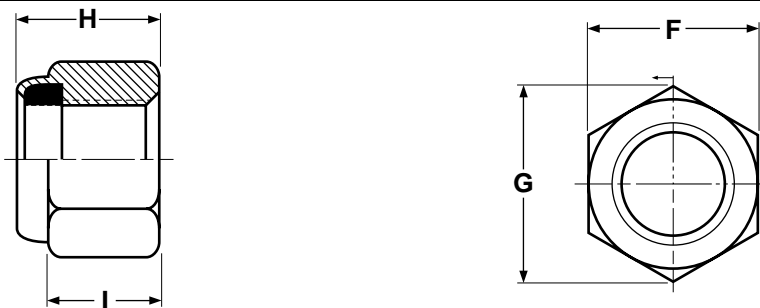


Nuts

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-- <i>Carbon: 0.58% maximum; Manganese: 0.25% minimum; Phosphorus: 0.060% maximum; Sulfur: 0.150% maximum.</i> |
| 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/mm²) | M3 - M4: 800 M5 - M7: 855 M8 - M10: 870 M12 - M16: 880 M20 - M36: 920 |
| Plating | See Appendix-A for plating information |