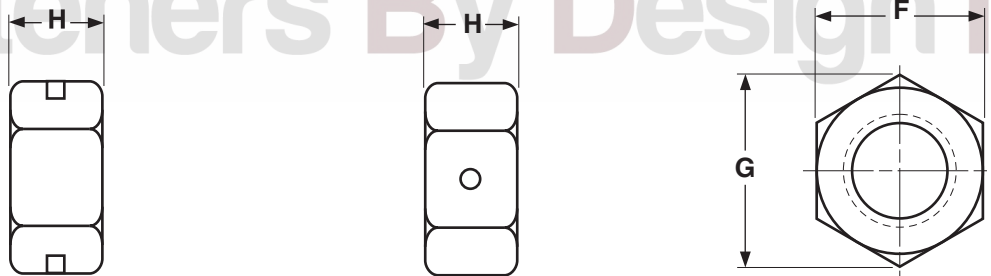


NUTS

TWO-WAY REVERSIBLE LOCK Steel & Stainless

Fasteners By Design Inc.



| TWO WAY REVERSIBLE LOCK NUTS | | | | | | | | | | Aztech* |
|---|--------|--------------------|-------|-------|----------------------|-------|-----------|-------|-------|---------|
| Nominal or Basic Major Diameter of Thread | | F | | | G | | H | | | |
| | | Width Across Flats | | | Width Across Corners | | Thickness | | | |
| | | Basic | Max | Min | Max | Min | Basic | Max | Min | |
| 8 | 0.1640 | 11/32 | 0.344 | 0.332 | 0.397 | 0.378 | 3/16 | 0.193 | 0.178 | |
| 10 | 0.1900 | 3/8 | 0.375 | 0.362 | 0.433 | 0.413 | 13/64 | 0.203 | 0.187 | |
| 1/4 | 0.2500 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 7/32 | 0.226 | 0.212 | |
| 5/16 | 0.3125 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 17/64 | 0.273 | 0.258 | |
| 3/8 | 0.3750 | 9/16 | 0.562 | 0.551 | 0.650 | 0.628 | 21/64 | 0.337 | 0.320 | |
| 7/16 | 0.4375 | 11/16 | 0.688 | 0.675 | 0.794 | 0.768 | 3/8 | 0.385 | 0.365 | |
| 1/2 | 0.5000 | 3/4 | 0.750 | 0.736 | 0.866 | 0.840 | 7/16 | 0.448 | 0.427 | |
| 9/16 | 0.5625 | 7/8 | 0.875 | 0.861 | 1.010 | 0.982 | 31/64 | 0.496 | 0.473 | |
| 5/8 | 0.6250 | 15/16 | 0.938 | 0.922 | 1.083 | 1.051 | 35/64 | 0.559 | 0.535 | |
| 3/4 | 0.7500 | 1-1/8 | 1.125 | 1.088 | 1.299 | 1.240 | 41/64 | 0.665 | 0.617 | |
| 7/8 | 0.8750 | 1-5/16 | 1.312 | 1.269 | 1.516 | 1.447 | 3/4 | 0.776 | 0.724 | |
| 1 | 1.0000 | 1-1/2 | 1.500 | 1.450 | 1.732 | 1.653 | 55/64 | 0.887 | 0.831 | |

| | | |
|---------------------------------|---|--|
| Description | Hex nut with two or three, round or rectangular indentations, compressed onto the flat sides of the nut equidistant from each other. The compressions create slightly distorted center threads resulting in a controlled locking action when the threads of the mating part become engaged. | |
| Applications/ Advantages | This is the least expensive prevailing torque type of nut, designed for use with machine screws and low-carbon bolts (or 18-8 screws with the stainless nuts). It allows for automatic assembly because the top and bottom of the nut are identical. It creates a locking action even without being fully threaded onto its mating screw. | |
| Material | Steel | Stainless |
| | Nuts shall be made from a low-carbon steel which conforms to the following chemical composition requirements-- <i>Carbon: 0.47% max.; Phosphorus: 0.12% max.; Sulfur: 0.23% max..</i> | 18-8 Stainless |
| Hardness | Rockwell C28 maximum | - |
| Proof Load | 90,000 psi. | - |
| Plating | See Appendix-A for plating information. | Parts are typically supplied plain with a wax coating. |

*Aztech is the author of these two-way reversible lock nut specifications.

Prevailing Torque—
STEEL Nuts

TWO-WAY REVERSIBLE LOCK

Fasteners By Design Inc.

| STEEL TWO WAY REVERSIBLE LOCK NUTS, <u>COARSE</u> THREAD | | | ASME B18.16.6 2014 |
|--|-----------------------------------|-------------------------------|-------------------------------|
| Nut Size & Threads per Inch | Prevailing Torque | | |
| | First Installation, Max (in.-lb.) | First Removal, Min. (in.-lb.) | Third Removal, Min. (in.-lb.) |
| 8-32 | 12.0 | 2.0 | 0.5 |
| 10-24 | 17 | 2.5 | 1.0 |
| 12-24 | 27 | 3.5 | 1.0 |
| 1/4-20 | 40 | 5.0 | 1.5 |
| 5/16-18 | 80 | 8.0 | 2.5 |
| 3/8-16 | 110 | 12.0 | 4.0 |
| 7/16-14 | 135 | 17.0 | 5.0 |
| 1/2-13 | 204 | 22.0 | 7.5 |
| 9/16-12 | 300 | 30.0 | 10.0 |
| 5/8-11 | 420 | 39.0 | 12.5 |
| 3/4-10 | 540 | 58.0 | 20.0 |
| 7/8-9 | 840 | 88.0 | 30.0 |
| 1-8 | 1,080 | 120.0 | 40.0 |

Fasteners By Design Inc.

| STEEL TWO WAY REVERSIBLE LOCK NUTS, <u>FINE</u> THREAD | | | ASME B18.16.6 2014 |
|--|-----------------------------------|-------------------------------|-------------------------------|
| Nut Size & Threads per Inch | Prevailing Torque | | |
| | First Installation, Max (in.-lb.) | First Removal, Min. (in.-lb.) | Third Removal, Min. (in.-lb.) |
| 10-32 | 17 | 2.5 | 1.0 |
| 1/4-28 | 40 | 5.0 | 1.5 |
| 5/16-24 | 80 | 8.0 | 2.5 |
| 3/8-24 | 110 | 12.0 | 4.0 |
| 7/16-20 | 135 | 17 | 5.0 |
| 1/2-20 | 204 | 22 | 7.5 |
| 9/16-18 | 300 | 30 | 10.0 |
| 5/8-18 | 420 | 39 | 12.5 |
| 3/4-16 | 540 | 58 | 20.0 |

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