



ONE PIECE HEX CAP NUTS, LOW CROWN

SAE J483

| Nominal Size or Basic Major Diameter of Thread | | F | | G | | A | H | Q | T | U |
|--|--------|--------------------|-------|----------------------|-------|---------------|----------------|----------------|-------------|------|
| | | Width Across Flats | | Width Across Corners | | Body Diameter | Overall Height | Hexagon Height | Drill Depth | |
| | | Max | Min | Max | Min | | | | Max | Min |
| 6 | 0.1380 | 0.3125 | 0.302 | 0.361 | 0.344 | 0.30 | 0.34 | 0.16 | 0.25 | 0.16 |
| 8 | 0.1640 | 0.3125 | 0.302 | 0.361 | 0.344 | 0.30 | 0.34 | 0.16 | 0.25 | 0.16 |
| 10 | 0.1900 | 0.3750 | 0.362 | 0.433 | 0.413 | 0.36 | 0.41 | 0.19 | 0.28 | 0.19 |
| 1/4 | 0.2500 | 0.4375 | 0.428 | 0.505 | 0.488 | 0.41 | 0.47 | 0.22 | 0.34 | 0.25 |
| 5/16 | 0.3125 | 0.5000 | 0.489 | 0.577 | 0.557 | 0.47 | 0.53 | 0.25 | 0.41 | 0.31 |
| 3/8 | 0.3750 | 0.5625 | 0.551 | 0.650 | 0.628 | 0.53 | 0.62 | 0.28 | 0.45 | 0.38 |
| 1/2 | 0.5000 | 0.7500 | 0.736 | 0.866 | 0.840 | 0.72 | 0.81 | 0.38 | 0.59 | 0.50 |
| 5/8 | 0.6250 | 0.9375 | 0.922 | 1.083 | 1.051 | 0.91 | 1.00 | 0.47 | 0.75 | 0.62 |
| 3/4 | 0.7500 | 1.0625 | 1.045 | 1.227 | 1.191 | 1.03 | 1.16 | 0.53 | 0.88 | 0.75 |

TWO PIECE HEX CAP NUTS

| Nominal Size or Basic Major Diameter of Thread | | F | | G | | H | |
|--|--------|--------------------|-------|----------------------|-------|----------------|-------|
| | | Width Across Flats | | Width Across Corners | | Overall Height | |
| | | Max | Min | Max | Min | Max | Min |
| 4 | 0.1120 | 0.248 | 0.225 | - | - | 0.200 | 0.177 |
| 5 | 0.1250 | 0.3125 | 0.302 | 0.361 | 0.344 | 0.260 | 0.240 |
| 6 | 0.1380 | 0.3125 | 0.302 | 0.361 | 0.344 | 0.260 | 0.240 |
| 8 | 0.1640 | 0.3125 | 0.302 | 0.361 | 0.344 | 0.260 | 0.240 |
| 10 | 0.1900 | 0.3750 | 0.362 | 0.433 | 0.413 | 0.291 | 0.271 |
| 1/4 | 0.2500 | 0.4375 | 0.423 | 0.505 | 0.482 | 0.338 | 0.318 |
| 5/16 | 0.3125 | 0.562 | 0.545 | 0.650 | 0.621 | 0.385 | 0.365 |
| 3/8 | 0.3750 | 0.625 | 0.607 | 0.722 | 0.692 | 0.432 | 0.412 |
| 1/2 | 0.5000 | 0.750 | 0.736 | 0.866 | 0.840 | 0.572 | 0.552 |
| 5/8 | 0.6250 | 0.938 | 0.909 | 1.083 | 1.037 | 0.807 | 0.787 |
| 3/4 | 0.7500 | 1.12 | 1.08 | - | - | 1.12 | 1.08 |

| | |
|--------------------------------|--|
| Description | <p>Steel: The low-crown cap nut is usually manufactured in two pieces, a hex nut and an acorn-shaped top, zinc die cast to form the finished part.</p> <p>Stainless: Similar in design to the steel nut but made from an austenitic stainless alloy. Nuts may be one or two-piece style.</p> |
| Applications/Advantages | <p>Cap nuts serve two main purposes: (1) as decorative pieces, and (2) as covers for projecting threads.</p> |
| Material | <p>Steel: Nuts shall be made from a low-carbon steel which conforms to the following chemical composition requirements-- <i>Carbon:</i> 0.47% max.; <i>Phosphorus:</i> 0.12% max.; <i>Sulfur:</i> 0.23% max..</p> <p>Stainless: 304L or equivalent stainless.</p> |
| Plating | <p>See Appendix-A for information about the plating of steel cap nuts.</p> |