

**One-Piece & Two-Piece;  
Steel & Stainless**

**CAP (ACORN), CLOSED-END**



| ONE PIECE CLOSED-END 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 | Full Thread |          |
|  |        | Max                | Min   | Max                  | Min   |               |                |                | Max         | Min         |          |
| • 4  | 0.1120 | 0.248              | 0.225 | -                    | -     | -             | 0.25           | -              | 0.18        | 0.12        |          |
| 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        |          |

Dimensions for #4 nominal diameter are independent of SAE J483.

| TWO PIECE CLOSED-END 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 |
| 7/16   | 0.4375 | 0.673              | 0.659 | 0.775                | 0.750 | 0.680          | 0.660 |
| 1/2 - 13                                       | 0.5000 | 0.750              | 0.736 | 0.866                | 0.840 | 0.572          | 0.552 |
| 1/2 - 20                                       | 0.5000 | 0.750              | 0.736 | 0.866                | 0.840 | 0.755          | 0.735 |
| 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  |
| 7/8  | 0.8750 | 1.250              | 1.212 | 1.443                | 1.382 | 1.420          | 1.380 |
| 1  | 1.0000 | 1.497              | 1.447 | 1.728                | 1.650 | 1.572          | 1.414 |

NOTE: There is no single standard for cap nut dimensions. These values are offered as a guide; deviations from these specifications may occur.

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