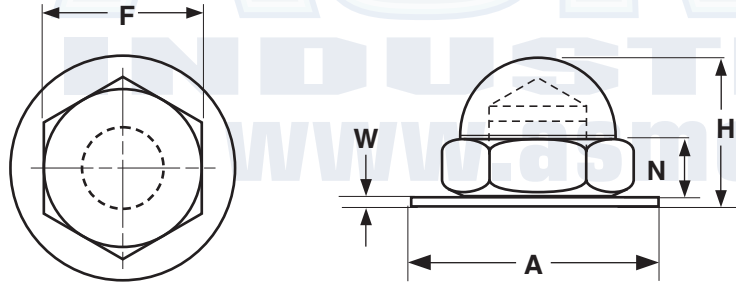


Steel **CAP, WASHER-BASED, CLOSED-END**



| WASHER-BASED CLOSED-END CAP NUTS      |        |                        |       |                  |       |                |                  |       |                      |
|---------------------------------------|--------|------------------------|-------|------------------|-------|----------------|------------------|-------|----------------------|
| Nominal Size or Basic Thread Diameter |        | F                      |       | N                |       | H              | W                |       | A                    |
|                                       |        | Width Across the Flats |       | Wrenching Height |       | Overall Height | Washer Thickness |       | Washer Base Diameter |
|                                       |        | Max                    | Min   | Max              | Min   | Nom            | Max              | Min   | Nom                  |
| 10                                    | 0.1900 | 0.382                  | 0.372 | 0.165            | 0.155 | 3/8            | 0.040            | 0.030 | 19/32                |
| 1/4                                   | 0.2500 | 0.444                  | 0.434 | 0.169            | 0.159 | 13/32          | 0.045            | 0.035 | 11/16                |
| 5/16                                  | 0.3125 | 0.569                  | 0.589 | 0.193            | 0.183 | 15/32          | 0.050            | 0.040 | 27/32                |
| 3/8                                   | 0.3750 | 0.632                  | 0.622 | 0.218            | 0.208 | 17/32          | 0.055            | 0.045 | 15/16                |

|                                  |  |
|----------------------------------|--|
| <b>Description</b>               | A zinc alloy internally threaded fastener that features a wide-diameter, integral washer base and a low-crown cap with a dome-shaped top.  |
| <b>Applications / Advantages</b> | This design is preferred by some as a more attractive alternative to a basic hex nut. Washer-base design enables the nut to be used in oversized or offset holes, and with soft materials such as wood or plastic.   |
| <b>Material</b>                  | Nuts are made from the zinc die cast alloy Zamak #3 which conforms to the following chemical composition requirements--<br><b>Aluminum:</b> 3.5-4.3%; <b>Magnesium:</b> 0.02-0.05%; <b>Copper:</b> 0.25%* max.; <b>Iron:</b> 0.10% max.; <b>Lead:</b> 0.005% max.;<br><b>Cadmium:</b> 0.004% max.; <b>Tin:</b> 0.003% max.;<br><b>Zinc:</b> balance (*Note: Most commercial applications will accept copper content within the range of 0.25-0.75% without rejecting the product). |