

**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>	<b>Steel:</b> 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. <b>Stainless:</b> 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>	<b>Steel:</b> 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.. <b>Stainless:</b> 304L or equivalent stainless.
<b>Plating</b>	See Appendix-A for information about the plating of steel cap nuts.