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Westfield Fasteners Product Specification:

DIN 917 - Cap Nuts

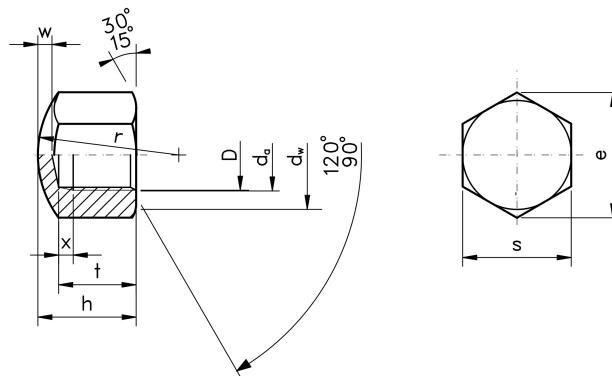
This product guide contains the specification for metric threaded hexagon cap nuts as available from Westfield Fasteners. The basis of this specification is DIN 917.

Product Description

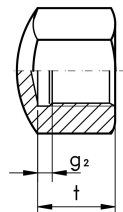
A closed-end hexagon nut with a domed cap that completely encloses the end of a mating bolt or threaded stud. Cap nuts are commonly used where an attractive finished appearance is required, while also protecting the exposed thread from damage, contamination and corrosion. The smooth closed-end also helps reduce the risk of snagging or accidental contact with exposed threads.

Scope of the DIN standard.

DIN 917 specifies the dimensions, tolerances and permissible variations for hexagon cap nuts (low type) with coarse and fine pitch metric threads, in sizes from M4 up to and including M72.



Type A – The useful thread length is given by t (thread height. x (thread run-out)).



Type B – The useful thread length is given by t (thread height. g_z (length of thread undercut)).

Figure 1: DIN 917 Cap Nut

Table 1: Dimensions & Tolerances according to DIN 917 (mm), continued

Thread, D	Series 1	M22	M24	M27	M30	M36	M42	M48	M56	M64	M72X6
	Series 2	M22x2	M24x2	M27x2	M30x2	M36x3	M42x3	M48x3	M56x4	M64x4	M72x4
	Series 3	M22x1.5	-	-	-	-	-	-	-	-	-
p		2.5	3	3	3.5	4	4.5	5	5.5	6	-
d _a	max	23.70	25.90	29.10	32.40	38.90	45.40	51.80	61.00	69.10	77.80
	min	22.00	24.00	27.00	30.00	36.00	42.00	48.00	56.00	64.00	72.00
d _w	min	31.40	33.30	38.00	42.80	51.10	60.00	69.50	78.70	88.20	97.70
e	min	37.29	39.55	45.20	50.85	60.79	72.02	82.30	93.56	104.86	116.16
x	Series 1 max	5	6	6	7	8	9	10	11	12	12
	Series 2 max	4	4	4	4	6	6	6	8	8	8
	Series 3 max	3	-	-	-	-	-	-	-	-	-
g ₂	Series 1 max	9.30	10.70	10.70	12.70	14.00	16.00	18.50	20.00	21.00	21.00
	Series 2 max	7.30	7.30	7.30	7.30	10.70	10.70	10.70	14.00	14.00	14.00
	Series 3 max	5.60	-	-	-	-	-	-	-	-	-
h	nom=max	28	30	32	34	44	52	58	68	75	85
	min	27.48	29.48	31.38	33.38	43.38	51.26	57.26	67.26	74.26	84.13
r	approx.	35	40	50	60	70	80	90	110	130	130
s	nom=max	34	36	41	46	55	65	75	85	95	105
	min	33.00	35.00	40.00	45.00	53.80	63.10	73.10	82.80	92.80	102.80
t	max	22.42	24.42	26.42	28.42	36.50	42.50	48.50	56.60	62.60	67.60
	min	21.58	23.58	25.58	27.58	35.50	41.50	47.50	55.40	61.40	66.40
w	min	3.00	3.00	3.00	3.00	4.00	4.00	4.00	5.00	5.00	5.00

Common Materials

DIN 917 cap nuts are commonly manufactured from stainless steel, carbon steel and brass. Stainless steel versions provide excellent corrosion resistance, while zinc plated steel offers a cost-effective solution for general engineering applications.

Availability

DIN 917 cap nuts are commonly available in standard metric coarse thread sizes as off-the-shelf products. Metric fine pitch variants are less common and may need to be manufactured to order, depending on the size and material required.

For complete requirements, please refer to the DIN 917 standard.