

Westfield Fasteners Product Specification:

DIN 982 - Nyloc Nuts, High Type (Type P)

This product guide contains the specification for metric threaded high type nyloc nuts, a range of standard parts available from Westfield Fasteners. The basis of this specification is the DIN standard DIN 982.

Product Description

A type of prevailing torque nut, hexagon shaped, incorporating a nylon insert to help prevent loosening when fitted. This is the higher profile (Type P) variant with more available thread engagement and is typically fitted with a spanner or ratchet with socket. A lower profile, where perhaps space is at a premium is also available under DIN 985 (Type T).

Scope of the ISO standard.

DIN 982 covers prevailing torque type hexagon nuts with a non metallic insert, and specifies dimensions and tolerances for sizes from M5 up to and including M24. DIN 982 mentions steel as the material, with property classes 8 and 10. It does not mention stainless steel or brass, but the dimensions will be the same.

Table 1 below defines the overall dimensions and tolerances of this nut type.

Although the DIN 982 standard has now been superseded by ISO 7040, off the shelf parts are currently more generally available to the older specification. The ISO standard specifies revised nut heights and across the flats dimensions on certain sizes, but are otherwise interchangeable.

Prevailing torque element / shape is
at the discretion of the manufacturer.

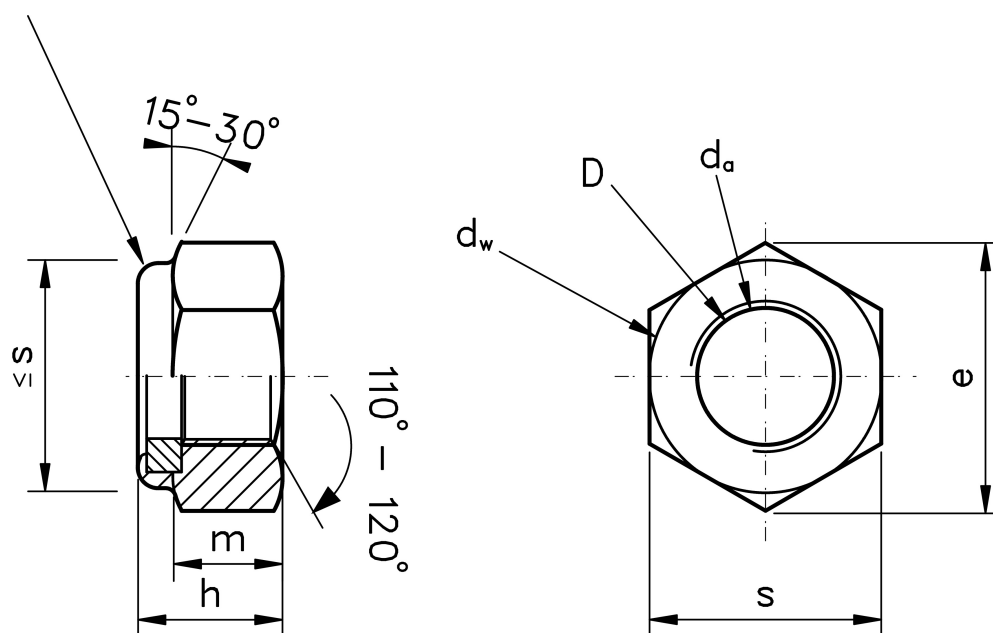


Figure 1: Nyloc Nut High Type (Type P)

Variations from DIN 985

DIN 985 covers materials including carbon steel in property classes 8 and 10. The hex nyloc nuts we stock in other materials and grades are made with reference to this standard, but are not mentioned specifically.

Table 1: Dimensions & Tolerances according to DIN 982 (mm)

Thread, d		M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24
		-	-	-	M8x1	M10x1	M12x1.5	M14x1.5	M16x1.5	M18x2	M20x2	M22x2	M24x2
		-	-	-	-	M10x1.25	M12x1.25	-	-	M18x1.5	M20x1.5	M22x1.5	-
p		0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
d _a	min	5	6	7	8	10	12	14	16	18	20	22	24
	max	5.75	6.75	7.75	8.75	10.8	13	15.1	17.3	19.5	21.6	23.7	25.9
d _w	min	6.9	8.9	9.6	11.6	15.6	17.4	20.5	22.5	24.9	27.7	29.5	33.2
e	min	8.79	11.05	12.12	14.38	18.9	21.1	24.49	26.75	29.56	32.95	35.03	39.55
h	max/nom	6.3	8	8.5	9.5	11.5	14	16	18	20	22	25	28
	min	6	7.7	8.2	9.14	11.14	13.64	15.3	17.3	19.16	20.7	23.7	26.7
m	min	4.4	4.9	6.14	6.44	8.04	10.37	12.1	14.1	15.1	16.9	18.1	20.2
s	max/nom	8	10	11	13	17	19	22	24	27	30	32	36
	min	7.78	9.78	10.73	12.73	16.73	18.67	21.67	23.67	26.16	29.16	31	35

For further details, please refer to the ISO/DIN standard document for this item.