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## Westfield Fasteners Product Specification:

### DIN 985 - Nyloc Nuts, Low or Thin Type (Type T)

This product guide contains the specification for metric threaded low type nyloc nuts, a range of standard parts available from Westfield Fasteners. The basis of this specification is the DIN standard DIN 985.

#### Product Description

Prevailing torque type nut manufactured to DIN 985. Popularly employed hexagon nut incorporating a nylon insert to help prevent loosening when fitted. This is the standard profile variant (Type T), a higher profile option is available under DIN 982 (Type P). Typically fitted with a spanner or ratchet with socket.

#### Scope of the DIN standard.

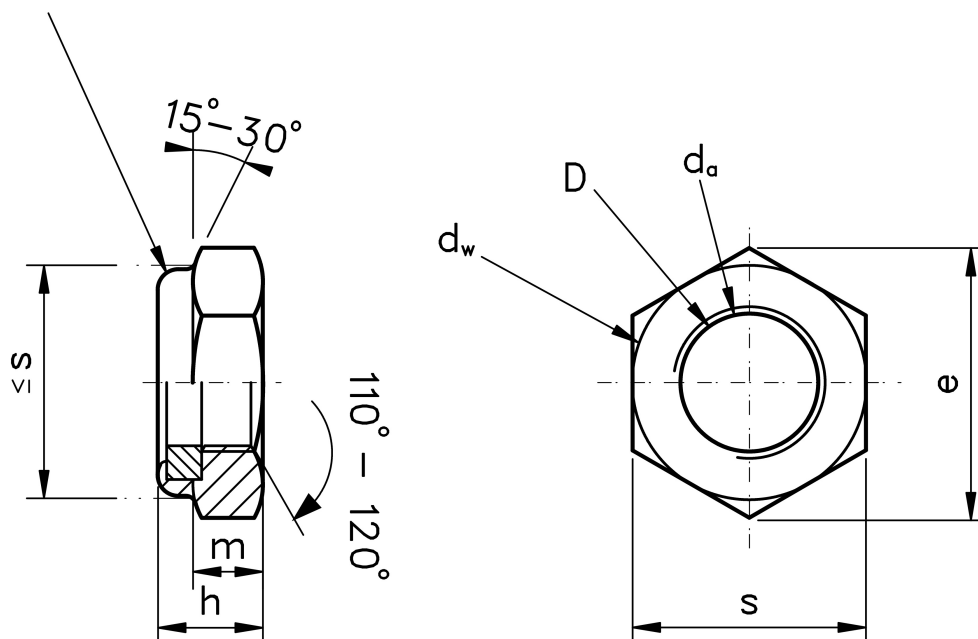
DIN 985 covers low type prevailing torque hexagon nuts, with a non-metallic insert, and specifies dimensions and tolerances for thread diameters from M3 up to and including M48.

DIN 985 mentions steel as a 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Although the DIN 985 standard has now been superseded by ISO 10511, off the shelf parts are currently more generally available to the older specification.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: Thin Nyloc Nut (Type T)**

### **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 985 (mm)

Thread, d		M3	M4	M5	M6	M7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	48
		-	-	-	-	-	M8x1	M10x1	M12x1.5	M14x1.5	M16x1.5	M18x2	M20x2	M22x2	M24x2	M27x2	M30x2	M33x2	M36x3	M39x3	M42x3	M45x3	M48x3
p		0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5
d <sub>a</sub>	min	3	4	5	6	7	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48
	max	3.45	4.6	8.75	6.75	7.75	8.75	10.8	13	15.1	17.3	19.5	21.6	23.7	25.9	29.1	32.4	35.6	38.9	42.1	45.4	48.6	51.8
d <sub>w</sub>	min	4.6	5.9	6.9	8.9	9.6	11.6	15.6	17.4	20.5	22.5	24.9	27.7	29.5	33.2	38	42.7	46.6	51.1	55.9	60.6	64.7	69.4
e	min	6.01	7.66	8.79	11.05	12.12	14.38	18.9	21.1	24.49	26.75	29.56	32.95	35.03	39.55	45.2	50.85	55.37	60.79	66.44	72.09	76.95	82.6
	max/nom	4	5	5	6	7.5	8	10	12	14	16	18.5	20	22	24	27	30	33	36	39	42	45	48
h	min	3.7	4.7	4.7	5.7	7.14	7.64	9.64	11.57	13.3	15.3	17.66	18.7	20.7	22.7	25.7	28.7	31.4	34.4	37.4	40.4	43.4	46.4
	min	2.4	2.9	3.2	4	4.7	5.5	6.5	8	9.5	10.5	13	14	15	15	17	19	22	25	27	29	32	36
s	max/nom	5.	7	8	10	11	13	17	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75
	min	5.32	6.78	7.78	9.78	10.73	12.73	16.73	18.67	21.67	23.67	26.16	29.16	31	35	40	45	49	53.8	58.8	63.8	68.1	73.1

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