



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Although the DIN 985 standard has now been superseded by ISO 10511, off the shelf parts are currently more generally available to the older specification.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.

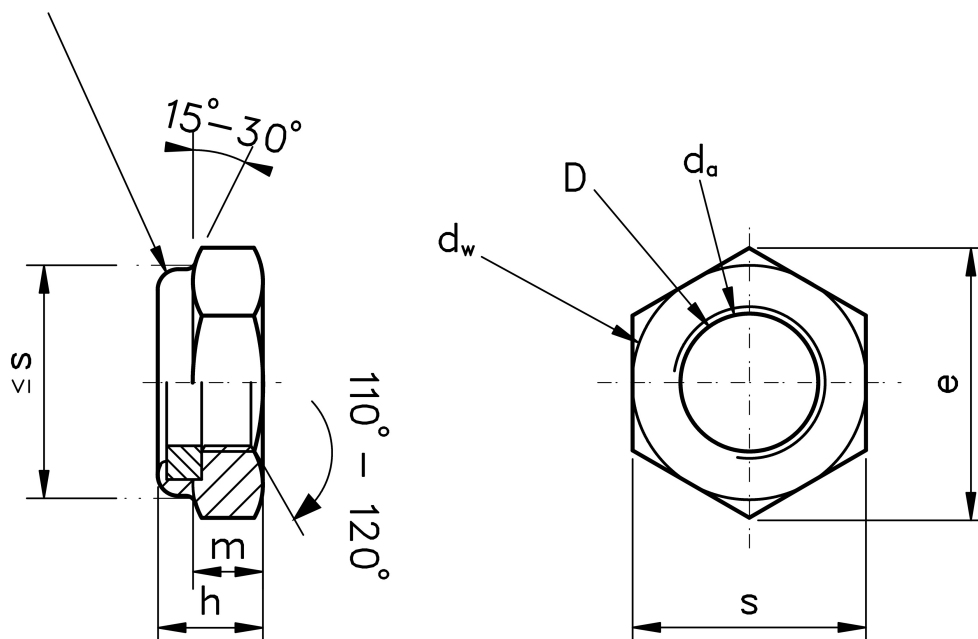


Figure 1: Thin Nyloc Nut (Type T)

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 |
| | | - | - | - | - | - | - | M10x1.25 | M12x1.25 | - | - | M18x1.5 | M20x1.5 | M22x1.5 | - | - | - | - | - | - | - | - | - |
| 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 _a | 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 _w | 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.