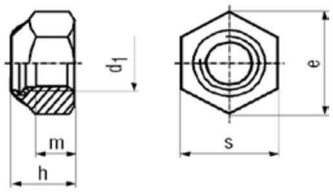


**e = WAC ( Width Across Corners)**

**Nylon Temperature Range - 58° to + 250° F**

| Thread Size d1 | (2)** | | (2.5)** | | (2.6)** | | 3 | | (3.5)** | | 4 | | 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coarse Pitch | 0.4 | | 0.45 | | 0.45 | | 0.5 | | 0.6 | | 0.7 | | 0.8 | |
| WAF s | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 3.82 | 4.00 | 4.82 | 5.00 | 4.82 | 5.00 | 5.32 | 5.50 | 5.82 | 6.00 | 6.78 | 7.00 | 7.78 | 8.00 |
| ISO 7040 (1997) | | | | | | | 5.32 | 5.50 | | | 6.78 | 7.00 | 7.78 | 8.00 |
| ANSI B 18.16.3M (1998) | | | | | | | 5.32 | 5.50 | 5.82 | 6.00 | 6.78 | 7.00 | 7.78 | 8.00 |
| Overall Height h | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 2.55 | 2.80 | 3.55 | 3.80 | 3.55 | 3.80 | 3.70 | 4.00 | 4.20 | 4.50 | 4.70 | 5.00 | 4.70 | 5.00 |
| ISO 7040 (1997) | | | | | | | 4.02 | 4.50 | | | 5.52 | 6.00 | 6.22 | 6.80 |
| ANSI B 18.16.3M (1998) | | | | | | | 3.90 | 4.50 | 4.30 | 5.00 | 5.30 | 6.00 | 6.00 | 6.80 |
| Wrenching Height m | min. | | min. | | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 1.60 | | 2.00 | | 2.00 | | 2.40 | | 2.60 | | 2.90 | | 3.20 | |
| ISO 7040 (1997) | | | | | | | 1.72 | | | | 2.32 | | 3.52 | |
| ANSI B 18.16.3M (1998) | | | | | | | 1.40 | | 1.70 | | 1.90 | | 2.70 | |
| WAC e | min. | | min. | | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 4.32 | | 5.45 | | 5.45 | | 6.01 | | 6.58 | | 7.66 | | 8.79 | |
| ISO 7040 (1997) | | | | | | | 6.01 | | | | 7.66 | | 8.79 | |
| ANSI B 18.16.3M (1998) | | | | | | | min. | max. | min. | max. | min. | max. | min. | max. |
| | | | | | | | 6.01 | 6.35 | 6.58 | 6.93 | 7.66 | 8.08 | 8.79 | 9.24 |

| Thread Size d1 | 6 | | (7) | | 8 | | 10 | | 12 | | 14 | | 16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coarse Pitch | 1 | | 1 | | 1.25 | | 1.5 | | 1.75 | | 2 | | 2 | |
| Fine Pitch | | | | | 1 | | 1.25 | | 1.5 | | 1.5 | | 1.5 | |
| Extra Fine Pitch | | | | | | | 1 | | 1.25 | | | | | |
| WAF s | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 9.78 | 10.00 | 10.73 | 11.00 | 12.73 | 13.00 | 16.73 | 17.00 | 18.67 | 19.00 | 21.67 | 22.00 | 23.67 | 24.00 |
| ISO 7040 (1997) | 9.78 | 10.00 | | | 12.73 | 13.00 | 15.73 | 16.00 | 17.73 | 18.00 | 20.67 | 21.00 | 23.67 | 24.00 |
| ANSI B 18.16.3M (1998) | 9.78 | 10.00 | | | 12.73 | 13.00 | 15.73 | 16.00 | 17.73 | 18.00 | 20.67 | 21.00 | 23.67 | 24.00 |
| Overall Height h | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 5.70 | 6.00 | 7.14 | 7.50 | 7.64 | 8.00 | 9.64 | 10.00 | 11.57 | 12.00 | 13.30 | 14.00 | 15.30 | 16.00 |
| ISO 7040 (1997) | 7.42 | 8.00 | | | 8.92 | 9.50 | 11.20 | 11.90 | 14.20 | 14.90 | 15.90 | 17.00 | 17.80 | 19.10 |
| ANSI B 18.16.3M (1998) | 7.20 | 8.00 | | | 8.50 | 9.50 | 10.90 | 11.90 | 13.90 | 14.90 | 15.80 | 17.00 | 17.90 | 19.10 |
| Wrenching Height m | min. | | min. | | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 4.00 | | 4.70 | | 5.50 | | 6.50 | | 8.00 | | 9.50 | | 10.50 | |
| ISO 7040 (1997) | 3.92 | | | | 5.15 | | 6.43 | | 8.30 | | 9.68 | | 11.28 | |
| ANSI B 18.16.3M (1998) | 3.00 | | | | 3.70 | | 4.80 | | 6.70 | | 7.80 | | 9.10 | |
| WAC e | min. | | min. | | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 11.05 | | 12.12 | | 14.38 | | 18.90 | | 21.10 | | 24.49 | | 26.75 | |
| ISO 7040 (1997) | 11.05 | | | | 14.38 | | 17.77 | | 20.03 | | 23.36 | | 26.75 | |
| ANSI B 18.16.3M (1998) | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. |
| | 11.05 | 11.55 | | | 14.38 | 15.01 | 17.77 | 18.48 | 20.03 | 20.78 | 23.35 | 24.25 | 26.75 | 27.71 |

**M2, M2,5, M2.6, And M3.5 Not in DIN 985 Standard, But Dimensions As Shown. These Sizes Along With Other Sizes With ( ) Should Not Be Used In New Designs.**

**The Strength Class Of The Nut Should Always Be Equal Or Greater Than The Strength Class Of The Screw.**

**Thread Tolerance For All Lock Nuts, Steel Plain Or Plated, Stainless Steel, Is 6H**

**FOR MORE DETAILED INFORMATION, PLEASE REFER TO COMPLETE DIN, ISO, OR ANSI STANDARD, WHICH ARE THE GOVERNING STANDARDS**

DIN 985 (1987) / ISO 7040 (1997) / ANSI B 18.16.3M(1998) - LFG 10/01/2016 REVISED



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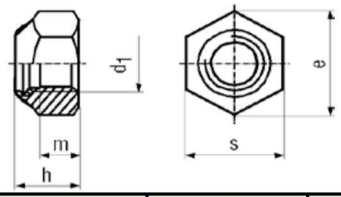


**e = WAC ( Width Across Corners)**

**Nylon Temperature Range - 58° to + 250° F**

| Thread Size d1 | (18) | | 20 | | (22) | | 24 | | (27) | | 30 | | (33) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coarse Pitch | 2.5 | | 2.5 | | 2.5 | | 3 | | 3 | | 3.5 | | 3.5 | |
| Fine Pitch | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| Extra Fine Pitch | 1.5 | | 1.5 | | 1.5 | | | | | | | | | |
| **WAF s** | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 26.16 | 27.00 | 29.16 | 30.00 | 31.00 | 32.00 | 35.00 | 36.00 | 40.00 | 41.00 | 45.00 | 46.00 | 49.00 | 50.00 |
| ISO 7040 (1997) | | | 29.16 | 30.00 | | | 35.00 | 36.00 | | | 45.00 | 46.00 | | |
| ANSI B 18.16.3M (1998) | | | 29.16 | 30.00 | | | 35.00 | 36.00 | | | 45.00 | 46.00 | | |
| **Overall Height h** | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 17.66 | 18.50 | 18.70 | 20.00 | 20.70 | 22.00 | 22.70 | 24.00 | 25.70 | 27.00 | 28.70 | 30.00 | 31.40 | 33.00 |
| ISO 7040 (1997) | | | 20.70 | 22.80 | | | 25.00 | 27.10 | | | 30.10 | 32.60 | | |
| ANSI B 18.16.3M (1998) | | | 21.50 | 22.80 | | | 25.60 | 27.10 | | | 30.60 | 32.60 | | |
| **Wrenching Height m** | min. | | min. | | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 13.00 | | 14.00 | | 15.00 | | 15.00 | | 17.00 | | 19.00 | | 22.00 | |
| ISO 7040 (1997) | | | 13.52 | | | | 16.16 | | | | 19.44 | | | |
| ANSI B 18.16.3M (1998) | | | 10.90 | | | | 13.00 | | | | 15.70 | | | |
| **WAC e** | min. | | min. | | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 29.56 | | 32.95 | | 35.03 | | 39.55 | | 45.20 | | 50.85 | | 55.37 | |
| ISO 7040 (1997) | | | 32.95 | | | | 39.55 | | | | 50.85 | | | |
| ANSI B 18.16.3M (1998) | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. |
| | | | 32.95 | 34.64 | | | 39.55 | 41.57 | | | 50.85 | 53.12 | | |

| Thread Size d1 | 36 | | (39) | | 42 | | (45) | | 48 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Coarse Pitch | 4 | | 4 | | 4.5 | | 4.5 | | 5 | |
| Fine Pitch | 3 | | 3 | | 3 | | 3 | | 3 | |
| **WAF s** | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 53.8 | 55.0 | 58.8 | 60.0 | 63.8 | 65.0 | 68.1 | 70.0 | 73.1 | 75.0 |
| ISO 7040 (1997) | 53.8 | 55.0 | | | | | | | | |
| ANSI B 18.16.3M (1998) | 53.8 | 55.0 | | | | | | | | |
| **Overall Height h** | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal | min. | max.= nominal |
| DIN 985 (1987) | 34.4 | 36.0 | 37.4 | 39.0 | 40.4 | 42.0 | 43.4 | 45.0 | 46.4 | 48.0 |
| ISO 7040 (1997) | 36.4 | 38.9 | | | | | | | | |
| ANSI B 18.16.3M (1998) | 36.9 | 38.9 | | | | | | | | |
| **Wrenching Height m** | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 25.00 | | 27.00 | | 29.00 | | 32.00 | | 36.00 | |
| ISO 7040 (1997) | 23.52 | | | | | | | | | |
| ANSI B 18.16.3M (1998) | 19.00 | | | | | | | | | |
| **WAC e** | min. | | min. | | min. | | min. | | min. | |
| DIN 985 (1987) | 60.79 | | 66.44 | | 72.09 | | 76.95 | | 82.60 | |
| ISO 7040 (1997) | 60.79 | | | | | | | | | |
| ANSI B 18.16.3M (1998) | min. | max. | | | | | | | | |
| | 60.79 | 63.51 | | | | | | | | |

| Stainless Steel A2 & A4 | | |
|---|---|---|
| Proof Load Stress (psi) | Property Class 50 | 72500 |
| | Property Class 70 | 101500 |
| | Property Class 80 | 116000 |
| Hardness is not a measurable attribute of Stainless Steel | | |
| Finish | Plain | |

| | Steel - Property Class | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | 6 | 8 | 10 | Vickers Hardness HV | 6 | | 8 | | 10 | |
| Proof Load Stress (psi) | | | | | min. | max. | min. | max. | min. | max. |
| up to M4 | 87000 | 116000 | 150800 | up to M4 | 150 | 302 | 170 | 302 | 272 | 353 |
| M4 to M7 | 97150 | 117450 | 150800 | M4 to M7 | | | 188 | | | |
| M7 TO M10 | 98600 | 120350 | 150800 | M7 TO M10 | | | | | | |
| M10 TO M16 | 101500 | 121800 | 152250 | M10 TO M16 | | | | | | |
| M16 TO M39 | 104400 | 133400 | 153700 | M16 TO M39 | 170 | | 233 | 353 | | |
| M39 TO M100 | - | - | - | M39 TO M100 | 142 | | 207 | | | |
| Finish | Plain or Plated | | | | | | | | | |
| Thread Tolerance | 6H | | | | | | | | | |

**FOR MORE DETAILED INFORMATION, PLEASE REFER TO COMPLETE DIN, ISO, OR ANSI STANDARD, WHICH ARE THE GOVERNING STANDARDS**

DIN 985 (1987) / ISO 7040 (1997) / ANSI B 18.16.3M(1998) - LFG 10/01/2016 REVISED



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