



The American Society of
Mechanical Engineers

A N A M E R I C A N N A T I O N A L S T A N D A R D

CLEARANCE HOLES FOR BOLTS, SCREWS, AND STUDS

ASME B18.2.8-1999

TABLE 1 INCH CLEARANCE HOLE ALLOWANCES

| Nominal Screw Size | Fit Classes | | |
|-----------------------|-------------|-------|-------|
| | Normal | Close | Loose |
| #0-#4 | 1/64 | 0.008 | 1/32 |
| #5-7/16 | 1/32 | 1/64 | 3/64 |
| 1/2, 5/8 | 1/16 | 1/32 | 7/64 |
| 3/4, 7/8 | 1/16 | 1/32 | 5/32 |
| 1 | 3/32 | 1/32 | 5/32 |
| 1 1/8, 1 1/4 | 3/32 | 1/32 | 3/16 |
| 1 3/8, 1 1/2 | 1/8 | 1/16 | 15/64 |

TABLE 2 CLEARANCE HOLES FOR INCH FASTENERS

| Nominal Screw Size | Fit Classes | | | | | | | | |
|-----------------------|-----------------------|---------------|-------|-----------------------|---------------|-------|-----------------------|---------------|-------|
| | Normal | | | Close | | | Loose | | |
| | Nominal Drill Size | Hole Diameter | | Nominal Drill Size | Hole Diameter | | Nominal Drill Size | Hole Diameter | |
| | | Min. | Max. | | Min. | Max. | | Min. | Max. |
| #0 | #48 | 0.076 | 0.082 | #51 | 0.067 | 0.071 | 3/32 | 0.094 | 0.104 |
| #1 | #43 | 0.089 | 0.095 | #46 | 0.081 | 0.085 | #37 | 0.104 | 0.114 |
| #2 | #38 | 0.102 | 0.108 | 3/32 | 0.094 | 0.098 | #32 | 0.116 | 0.126 |
| #3 | #32 | 0.116 | 0.122 | #36 | 0.106 | 0.110 | #30 | 0.128 | 0.140 |
| #4 | #30 | 0.128 | 0.135 | #31 | 0.120 | 0.124 | #27 | 0.144 | 0.156 |
| #5 | 5/32 | 0.156 | 0.163 | 9/64 | 0.141 | 0.146 | 11/64 | 0.172 | 0.184 |
| #6 | #18 | 0.170 | 0.177 | #23 | 0.154 | 0.159 | #13 | 0.185 | 0.197 |
| #8 | #9 | 0.196 | 0.203 | #15 | 0.180 | 0.185 | #3 | 0.213 | 0.225 |
| #10 | #2 | 0.221 | 0.228 | #5 | 0.206 | 0.211 | B | 0.238 | 0.250 |
| 1/4 | 9/32 | 0.281 | 0.290 | 17/64 | 0.266 | 0.272 | 19/64 | 0.297 | 0.311 |
| 5/16 | 11/32 | 0.344 | 0.354 | 21/64 | 0.328 | 0.334 | 23/64 | 0.359 | 0.373 |
| 3/8 | 13/32 | 0.406 | 0.416 | 25/64 | 0.391 | 0.397 | 27/64 | 0.422 | 0.438 |
| 7/16 | 15/32 | 0.469 | 0.479 | 29/64 | 0.453 | 0.460 | 31/64 | 0.484 | 0.500 |
| 1/2 | 9/16 | 0.562 | 0.572 | 17/32 | 0.531 | 0.538 | 39/64 | 0.609 | 0.625 |
| 5/8 | 11/16 | 0.688 | 0.698 | 21/32 | 0.656 | 0.663 | 47/64 | 0.734 | 0.754 |
| 3/4 | 13/16 | 0.812 | 0.824 | 25/32 | 0.781 | 0.789 | 29/32 | 0.906 | 0.926 |
| 7/8 | 15/16 | 0.938 | 0.950 | 29/32 | 0.906 | 0.914 | 1 1/32 | 1.031 | 1.051 |
| 1 | 1 3/32 | 1.094 | 1.106 | 1 1/32 | 1.031 | 1.039 | 1 5/32 | 1.156 | 1.181 |
| 1 1/8 | 1 7/32 | 1.219 | 1.235 | 1 5/32 | 1.156 | 1.164 | 1 5/16 | 1.312 | 1.337 |
| 1 1/4 | 1 11/32 | 1.344 | 1.360 | 1 9/32 | 1.281 | 1.291 | 1 7/16 | 1.438 | 1.463 |
| 1 3/8 | 1 1/2 | 1.500 | 1.516 | 1 7/16 | 1.438 | 1.448 | 1 39/64 | 1.609 | 1.634 |
| 1 1/2 | 1 5/8 | 1.625 | 1.641 | 1 9/16 | 1.562 | 1.572 | 1 47/64 | 1.734 | 1.759 |

GENERAL NOTE: Dimensions are in inches.

TABLE 3 CLEARANCE HOLES FOR METRIC FASTENERS

| Nominal Screw Size | Fit Classes | | | | | | | | |
|-----------------------|-----------------------|---------------|--------|-----------------------|---------------|--------|-----------------------|---------------|--------|
| | Normal | | | Close | | | Loose | | |
| | Nominal Drill Size | Hole Diameter | | Nominal Drill Size | Hole Diameter | | Nominal Drill Size | Hole Diameter | |
| | | Min. | Max. | | Min. | Max. | | Min. | Max. |
| M1.6 | 1.8 | 1.8 | 1.94 | 1.7 | 1.7 | 1.8 | 2 | 2 | 2.25 |
| M2 | 2.4 | 2.4 | 2.54 | 2.2 | 2.2 | 2.3 | 2.6 | 2.6 | 2.85 |
| M2.5 | 2.9 | 2.9 | 3.04 | 2.7 | 2.7 | 2.8 | 3.1 | 3.1 | 3.4 |
| M3 | 3.4 | 3.4 | 3.58 | 3.2 | 3.2 | 3.32 | 3.6 | 3.6 | 3.9 |
| M4 | 4.5 | 4.5 | 4.68 | 4.3 | 4.3 | 4.42 | 4.8 | 4.8 | 5.1 |
| M5 | 5.5 | 5.5 | 5.68 | 5.3 | 5.3 | 5.42 | 5.8 | 5.8 | 6.1 |
| M6 | 6.6 | 6.6 | 6.82 | 6.4 | 6.4 | 6.55 | 7 | 7 | 7.36 |
| M8 | 9 | 9 | 9.22 | 8.4 | 8.4 | 8.55 | 10 | 10 | 10.36 |
| M10 | 11 | 11 | 11.27 | 10.5 | 10.5 | 10.68 | 12 | 12 | 12.43 |
| M12 | 13.5 | 13.5 | 13.77 | 13 | 13 | 13.18 | 14.5 | 14.5 | 14.93 |
| M14 | 15.5 | 15.5 | 15.77 | 15 | 15 | 15.18 | 16.5 | 16.5 | 16.93 |
| M16 | 17.5 | 17.5 | 17.77 | 17 | 17 | 17.18 | 18.5 | 18.5 | 19.02 |
| M20 | 22 | 22 | 22.33 | 21 | 21 | 21.21 | 24 | 24 | 24.52 |
| M24 | 26 | 26 | 26.33 | 25 | 25 | 25.21 | 28 | 28 | 28.52 |
| M30 | 33 | 33 | 33.39 | 31 | 31 | 31.25 | 35 | 35 | 35.62 |
| M36 | 39 | 39 | 39.39 | 37 | 37 | 37.25 | 42 | 42 | 42.62 |
| M42 | 45 | 45 | 45.39 | 43 | 43 | 43.25 | 48 | 48 | 48.62 |
| M48 | 52 | 52 | 52.46 | 50 | 50 | 50.25 | 56 | 56 | 56.74 |
| M56 | 62 | 62 | 62.46 | 58 | 58 | 58.3 | 66 | 66 | 66.74 |
| M64 | 70 | 70 | 70.46 | 66 | 66 | 66.3 | 74 | 74 | 74.74 |
| M72 | 78 | 78 | 78.46 | 74 | 74 | 74.3 | 82 | 82 | 82.87 |
| M80 | 86 | 86 | 86.54 | 82 | 82 | 82.35 | 91 | 91 | 91.87 |
| M90 | 96 | 96 | 96.54 | 93 | 93 | 93.35 | 101 | 101 | 101.87 |
| M100 | 107 | 107 | 107.54 | 104 | 104 | 104.35 | 112 | 112 | 112.87 |

GENERAL NOTE: Dimensions are in millimeters.

TABLE 4 METRIC CLEARANCE HOLE ALLOWANCES

| Nominal Screw Size | Fit Classes | | |
|-----------------------|-------------|-------|-------|
| | Normal | Close | Loose |
| M1.6 | 0.2 | 0.1 | 0.25 |
| M2 | 0.4 | 0.1 | 0.3 |
| M2.5 | 0.4 | 0.1 | 0.3 |
| M3 | 0.4 | 0.2 | 0.6 |
| M4, M5 | 0.5 | 0.3 | 0.8 |
| M6 | 0.6 | 0.4 | 1 |
| M8 | 1 | 0.4 | 2 |
| M10 | 1 | 0.5 | 2 |
| M12-M16 | 1.5 | 1 | 2.5 |
| M20, M24 | 2 | 1 | 4 |
| M30 | 3 | 1 | 5 |
| M36, M42 | 3 | 1 | 6 |
| M48 | 4 | 2 | 8 |
| M56-M72 | 6 | 2 | 10 |
| M80 | 6 | 2 | 11 |
| M90 | 6 | 3 | 11 |
| M100 | 7 | 4 | 12 |

GENERAL NOTE: Dimensions are in millimeters.

I-1 RECOMMENDED SUBSTITUTE DRILLS

If the clearance hole application is dimensioned in metric drill sizes for inch fasteners or inch drill sizes for metric fasteners, Tables I-1 and I-2 list the nearest standard drill size translations for the designated drills of Tables 2 and 3.

TABLE I-1 STANDARD METRIC DRILLS FOR INCH FASTENERS

| Nominal Screw Size, in. | Nominal Drill Size, mm | | |
|----------------------------|------------------------|-------|-------|
| | Fit Classes | | |
| | Normal | Close | Loose |
| #0 | 1.9 | 1.7 | 2.4 |
| #1 | 2.25 | 2.05 | 2.6 |
| #2 | 2.6 | 2.4 | 2.9 |
| #3 | 2.9 | 2.7 | 3.3 |
| #4 | 3.3 | 3 | 3.7 |
| #5 | 4 | 3.6 | 4.4 |
| #6 | 4.3 | 3.9 | 4.7 |
| #8 | 5 | 4.6 | 5.4 |
| #10 | 5.6 | 5.2 | 6 |
| 1/4 | 7.1 | 6.7 | 7.5 |
| 5/16 | 8.7 | 8.3 | 9.1 |
| 3/8 | 10.2 | 9.9 | 10.5 |
| 7/16 | 11.8 | 11.5 | 12.2 |
| 1/2 | 14.25 | 13.5 | 15.5 |
| 5/8 | 17.5 | 16.75 | 19 |
| 3/4 | 20.5 | 20 | 23 |
| 7/8 | 24 | 23 | 26 |
| 1 | 27.5 | 26 | 29.5 |
| 1 1/8 | 31 | 29.5 | 33.5 |
| 1 1/4 | 34 | 32.5 | 36.5 |
| 1 3/8 | 38 | 36.5 | 41 |
| 1 1/2 | 41 | 39.5 | 44 |

TABLE I-2 STANDARD INCH DRILLS FOR METRIC FASTENERS

| Nominal Screw Size, mm | Nominal Drill Size, in. | | |
|---------------------------|-------------------------|---------|---------|
| | Fit Classes | | |
| | Normal | Close | Loose |
| M1.6 | #50 | #51 | #47 |
| M2 | 3/32 | #44 | #38 |
| M2.5 | #33 | #36 | #31 |
| M3 | #29 | 1/8 | 9/64 |
| M4 | #16 | #19 | #12 |
| M5 | 7/32 | #4 | #1 |
| M6 | G | 1/4 | J |
| M8 | T | Q | 25/64 |
| M10 | 7/16 | Z | 31/64 |
| M12 | 17/32 | 33/64 | 37/64 |
| M14 | 39/64 | 19/32 | 21/32 |
| M16 | 11/32 | 43/64 | 47/64 |
| M20 | 55/64 | 53/64 | 15/16 |
| M24 | 1 1/32 | 63/64 | 1 7/64 |
| M30 | 1 9/32 | 1 7/32 | 1 3/8 |
| M36 | 1 17/32 | 1 15/32 | 1 21/32 |
| M42 | 1 25/32 | 1 11/16 | 1 29/32 |
| M48 | 2 1/32 | 1 31/32 | 2 3/16 |
| M56 | 2 7/16 | 2 5/16 | 2 5/8 |
| M64 | 2 3/4 | 2 5/8 | 2 5/16 |
| M72 | 3 1/8 | 2 15/16 | 3 1/4 |

| Tap size | Diameter (in) | Diameter (mm) | Thread count (TPI) | Thread pitch (mm) | Tap drill size |
|-----------|---------------|---------------|--------------------|-------------------|----------------|
| #0000-160 | 0.0210 | 0.5334 | 160 | 0.159 | 1/64 in |
| #000-120 | 0.0340 | 0.8636 | 120 | 0.212 | #71 |
| #00-90 | 0.0470 | 1.1938 | 90 | 0.282 | #65 |
| #0-80 | 0.0600 | 1.5240 | 80 | 0.318 | 3/64 in |
| #1-64 | 0.0730 | 1.8542 | 64 | 0.397 | #52 |
| #1-72 | 0.0730 | 1.8542 | 72 | 0.353 | #53 |
| #2-56 | 0.0860 | 2.1844 | 56 | 0.454 | #50 |
| #2-64 | 0.0860 | 2.1844 | 64 | 0.397 | #50 |
| #3-48 | 0.0990 | 2.5146 | 48 | 0.529 | #47 |
| #3-56 | 0.0990 | 2.5146 | 56 | 0.454 | #45 |
| #4-40 | 0.1120 | 2.8448 | 40 | 0.635 | #43 |
| #4-48 | 0.1120 | 2.8448 | 48 | 0.529 | #42 |
| #5-40 | 0.1250 | 3.1750 | 40 | 0.635 | #39 |
| #5-44 | 0.1250 | 3.1750 | 44 | 0.577 | #37 |
| #6-32 | 0.1380 | 3.5052 | 32 | 0.794 | #36 |
| #6-40 | 0.1380 | 3.5052 | 40 | 0.635 | #33 |
| #8-32 | 0.1640 | 4.1656 | 32 | 0.794 | #29 |
| #8-36 | 0.1640 | 4.1656 | 36 | 0.706 | #29 |
| #10-32 | 0.1900 | 4.8260 | 32 | 0.794 | #21 |
| #10-24 | 0.1900 | 4.8260 | 24 | 1.058 | #25 |
| #12-24 | 0.2160 | 5.4864 | 24 | 1.058 | #17 |
| #12-28 | 0.2160 | 5.4864 | 28 | 0.907 | #15 |
| 1/4-20 | 0.2500 | 6.3500 | 20 | 1.270 | #7 |
| 1/4-28 | 0.2500 | 6.3500 | 28 | 0.907 | #3 |
| 5/16-18 | 0.3125 | 7.9375 | 18 | 1.411 | F |
| 5/16-24 | 0.3125 | 7.9375 | 24 | 1.058 | I |
| 3/8-24 | 0.3750 | 9.5250 | 24 | 1.058 | Q |
| 3/8-16 | 0.3750 | 9.5250 | 16 | 1.588 | 5/16 in |
| 7/16-14 | 0.4375 | 11.1125 | 14 | 1.814 | U |
| 7/16-20 | 0.4375 | 11.1125 | 20 | 1.270 | 25/64 in |
| 1/2-20 | 0.5000 | 12.7000 | 20 | 1.270 | 29/64 in |
| 1/2-13 | 0.5000 | 12.7000 | 13 | 1.954 | 27/64 in |
| 9/16-18 | 0.5625 | 14.2875 | 18 | 1.411 | 33/64 in |
| 9/16-12 | 0.5625 | 14.2875 | 12 | 2.117 | 31/64 in |
| 5/8-18 | 0.6250 | 15.8750 | 18 | 1.411 | 37/64 in |
| 5/8-11 | 0.6250 | 15.8750 | 11 | 2.309 | 17/32 in |
| 3/4-16 | 0.7500 | 19.0500 | 16 | 1.588 | 11/16 in |
| 3/4-10 | 0.7500 | 19.0500 | 10 | 2.540 | 21/32 in |
| 7/8-9 | 0.8750 | 22.2250 | 9 | 2.822 | 49/64 in |
| 7/8-14 | 0.8750 | 22.2250 | 14 | 1.814 | 13/16 in |
| 1-14 | 1.0000 | 25.4000 | 14 | 1.814 | 15/16 in |
| 1-8 | 1.0000 | 25.4000 | 8 | 3.175 | 7/8 in |
| 1 1/8-12 | 1.1250 | 28.5750 | 12 | 2.117 | 1 3/64 in |
| 1 1/8-7 | 1.1250 | 28.5750 | 7 | 3.629 | 63/64 in |
| 1 1/4-12 | 1.2500 | 31.7500 | 12 | 2.117 | 1 11/64 in |
| 1 1/4-7 | 1.2500 | 31.7500 | 7 | 3.629 | 1 7/64 in |
| 1 1/2 -12 | 1.5000 | 38.1000 | 12 | 2.117 | 1 27/64 in |
| 1 1/2-6 | 1.5000 | 38.1000 | 6 | 4.233 | 1 11/32 in |
| 1 3/4-12 | 1.7500 | 44.4500 | 12 | 2.117 | 1 43/64 in |
| 1 3/4-5 | 1.7500 | 44.4500 | 5 | 5.080 | 1 35/64 in |
| 2-12 | 2.0000 | 50.8000 | 12 | 2.117 | 1 59/64 in |
| 2-4 1/2 | 2.0000 | 50.8000 | 4.5 | 5.644 | 1 25/32 in |

| Tap size | Diameter (in) | Diameter (mm) | Thread count (TPI) | Thread pitch (mm) | Tap drill size |
|-----------|---------------|---------------|--------------------|-------------------|----------------|
| M1x0.2 | 0.0394 | 1.0000 | ~127 | 0.200 | 0.8 mm |
| M1x0.25 | 0.0394 | 1.0000 | ~102 | 0.250 | 0.75 mm |
| M1.1x0.25 | 0.0433 | 1.1000 | ~102 | 0.250 | 0.85 mm |
| M1.1x0.2 | 0.0433 | 1.1000 | ~127 | 0.200 | 0.9 mm |
| M1.2x0.2 | 0.0472 | 1.2000 | ~127 | 0.200 | 1 mm |
| M1.2x0.25 | 0.0472 | 1.2000 | ~102 | 0.250 | 0.95 mm |
| M1.4x0.2 | 0.0551 | 1.4000 | ~127 | 0.200 | 1.2 mm |
| M1.4x0.3 | 0.0551 | 1.4000 | ~85 | 0.300 | 1.1 mm |
| M1.6x0.2 | 0.0630 | 1.6000 | ~127 | 0.200 | 1.4 mm |
| M1.6x0.35 | 0.0630 | 1.6000 | ~73 | 0.350 | 1.25 mm |
| M1.8x0.2 | 0.0709 | 1.8000 | ~127 | 0.200 | 1.6 mm |
| M1.8x0.35 | 0.0709 | 1.8000 | ~73 | 0.350 | 1.45 mm |
| M2x0.25 | 0.0787 | 2.0000 | ~102 | 0.250 | 1.75 mm |
| M2x0.4 | 0.0787 | 2.0000 | ~64 | 0.400 | 1.6 mm |
| M2.2x0.25 | 0.0866 | 2.2000 | ~102 | 0.250 | 1.95 mm |
| M2.2x0.45 | 0.0866 | 2.2000 | ~57 | 0.450 | 1.75 mm |
| M2.5x0.35 | 0.0984 | 2.5000 | ~73 | 0.350 | 2.1 mm |
| M2.5x0.45 | 0.0984 | 2.5000 | ~57 | 0.450 | 2.05 mm |
| M3x0.35 | 0.1181 | 3.0000 | ~73 | 0.350 | 2.6 mm |
| M3x0.5 | 0.1181 | 3.0000 | ~51 | 0.500 | 2.5 mm |
| M3.5x0.35 | 0.1378 | 3.5000 | ~73 | 0.350 | 3.1 mm |
| M3.5x0.6 | 0.1378 | 3.5000 | ~43 | 0.600 | 2.9 mm |
| M4x0.35 | 0.1575 | 4.0000 | ~73 | 0.350 | 3.6 mm |
| M4x0.5 | 0.1575 | 4.0000 | ~51 | 0.500 | 3.5 mm |
| M4x0.7 | 0.1575 | 4.0000 | ~37 | 0.700 | 3.3 mm |
| M4.5x0.5 | 0.1772 | 4.5000 | ~51 | 0.500 | 4 mm |
| M4.5x0.75 | 0.1772 | 4.5000 | ~34 | 0.750 | 3.8 mm |
| M5x0.5 | 0.1969 | 5.0000 | ~51 | 0.500 | 4.5 mm |
| M5x0.8 | 0.1969 | 5.0000 | ~32 | 0.800 | 4.2 mm |
| M5.5x0.5 | 0.2165 | 5.5000 | ~51 | 0.500 | 5 mm |
| M6x0.5 | 0.2362 | 6.0000 | ~51 | 0.500 | 5.5 mm |
| M6x0.75 | 0.2362 | 6.0000 | ~34 | 0.750 | 5.2 mm |
| M6x1 | 0.2362 | 6.0000 | ~26 | 1.000 | 5 mm |
| M7x0.75 | 0.2756 | 7.0000 | ~34 | 0.750 | 6.2 mm |
| M7x1 | 0.2756 | 7.0000 | ~26 | 1.000 | 6 mm |
| M8x0.5 | 0.3150 | 8.0000 | ~51 | 0.500 | 7.5 mm |
| M8x0.75 | 0.3150 | 8.0000 | ~34 | 0.750 | 7.2 mm |
| M8x1 | 0.3150 | 8.0000 | ~26 | 1.000 | 7 mm |
| M8x1.25 | 0.3150 | 8.0000 | ~21 | 1.250 | 6.8 mm |
| M9x0.75 | 0.3543 | 9.0000 | ~34 | 0.750 | 8.2 mm |
| M9x1 | 0.3543 | 9.0000 | ~26 | 1.000 | 8 mm |
| M9x1.25 | 0.3543 | 9.0000 | ~21 | 1.250 | 7.8 mm |
| M10x0.75 | 0.3937 | 10.0000 | ~34 | 0.750 | 9.2 mm |
| M10x1.5 | 0.3937 | 10.0000 | ~17 | 1.500 | 8.5 mm |
| M10x1.25 | 0.3937 | 10.0000 | ~21 | 1.250 | 8.8 mm |
| M10x1 | 0.3937 | 10.0000 | ~26 | 1.000 | 9 mm |
| M11x0.75 | 0.4331 | 11.0000 | ~34 | 0.750 | 10.2 mm |
| M11x1 | 0.4331 | 11.0000 | ~26 | 1.000 | 10 mm |
| M11x1.5 | 0.4331 | 11.0000 | ~17 | 1.500 | 9.5 mm |
| M12x1.5 | 0.4724 | 12.0000 | ~17 | 1.500 | 10.5 mm |
| M12x1.75 | 0.4724 | 12.0000 | ~15 | 1.750 | 10.2 mm |
| M12x0.75 | 0.4724 | 12.0000 | ~34 | 0.750 | 11.25 mm |
| M12x1 | 0.4724 | 12.0000 | ~26 | 1.000 | 11 mm |

| | | | | | |
|----------|--------|---------|-----|-------|---------|
| M12x1.25 | 0.4724 | 12.0000 | ~21 | 1.250 | 10.8 mm |
| M14x1.5 | 0.5512 | 14.0000 | ~17 | 1.500 | 12.5 mm |
| M14x1.25 | 0.5512 | 14.0000 | ~21 | 1.250 | 12.8 mm |
| M14x1 | 0.5512 | 14.0000 | ~26 | 1.000 | 13 mm |
| M14x2 | 0.5512 | 14.0000 | ~13 | 2.000 | 12 mm |
| M15x1 | 0.5906 | 15.0000 | ~26 | 1.000 | 14 mm |
| M15x1.5 | 0.5906 | 15.0000 | ~17 | 1.500 | 13.5 mm |
| M16x2 | 0.6299 | 16.0000 | ~13 | 2.000 | 14 mm |
| M16x1.5 | 0.6299 | 16.0000 | ~17 | 1.500 | 14.5 mm |
| M16x1 | 0.6299 | 16.0000 | ~26 | 1.000 | 15 mm |
| M17x1 | 0.6693 | 17.0000 | ~26 | 1.000 | 16 mm |
| M17x1.5 | 0.6693 | 17.0000 | ~17 | 1.500 | 15.5 mm |
| M18x2.5 | 0.7087 | 18.0000 | ~11 | 2.500 | 15.5 mm |
| M18x1 | 0.7087 | 18.0000 | ~26 | 1.000 | 17 mm |
| M18x1.5 | 0.7087 | 18.0000 | ~17 | 1.500 | 16.5 mm |
| M18x2 | 0.7087 | 18.0000 | ~13 | 2.000 | 16 mm |
| M20x2 | 0.7874 | 20.0000 | ~13 | 2.000 | 18 mm |
| M20x1.5 | 0.7874 | 20.0000 | ~17 | 1.500 | 18.5 mm |
| M20x1 | 0.7874 | 20.0000 | ~26 | 1.000 | 19 mm |
| M20x2.5 | 0.7874 | 20.0000 | ~11 | 2.500 | 17.5 mm |
| M22x2 | 0.8661 | 22.0000 | ~13 | 2.000 | 20 mm |
| M22x1.5 | 0.8661 | 22.0000 | ~17 | 1.500 | 20.5 mm |
| M22x1 | 0.8661 | 22.0000 | ~26 | 1.000 | 21 mm |
| M22x2.5 | 0.8661 | 22.0000 | ~11 | 2.500 | 19.5 mm |
| M24x3 | 0.9449 | 24.0000 | ~9 | 3.000 | 21 mm |
| M24x1 | 0.9449 | 24.0000 | ~26 | 1.000 | 23 mm |
| M24x1.5 | 0.9449 | 24.0000 | ~17 | 1.500 | 22.5 mm |
| M24x2 | 0.9449 | 24.0000 | ~13 | 2.000 | 22 mm |
| M25x2 | 0.9843 | 25.0000 | ~13 | 2.000 | 23 mm |
| M25x1 | 0.9843 | 25.0000 | ~26 | 1.000 | 24 mm |
| M25x1.5 | 0.9843 | 25.0000 | ~17 | 1.500 | 23.5 mm |
| M26x1.5 | 1.0236 | 26.0000 | ~17 | 1.500 | 24.5 mm |
| M27x1.5 | 1.0630 | 27.0000 | ~17 | 1.500 | 25.5 mm |
| M27x3 | 1.0630 | 27.0000 | ~9 | 3.000 | 24 mm |
| M27x1 | 1.0630 | 27.0000 | ~26 | 1.000 | 26 mm |
| M27x2 | 1.0630 | 27.0000 | ~13 | 2.000 | 25 mm |
| M28x2 | 1.1024 | 28.0000 | ~13 | 2.000 | 26 mm |
| M28x1 | 1.1024 | 28.0000 | ~26 | 1.000 | 27 mm |
| M28x1.5 | 1.1024 | 28.0000 | ~17 | 1.500 | 26.5 mm |
| M30x1.5 | 1.1811 | 30.0000 | ~17 | 1.500 | 28.5 mm |
| M30x3.5 | 1.1811 | 30.0000 | ~8 | 3.500 | 26.5 mm |
| M30x2 | 1.1811 | 30.0000 | ~13 | 2.000 | 28 mm |
| M33x2 | 1.2992 | 33.0000 | ~13 | 2.000 | 31 mm |
| M33x3.5 | 1.2992 | 33.0000 | ~8 | 3.500 | 29.5 mm |
| M36x3 | 1.4173 | 36.0000 | ~9 | 3.000 | 33 mm |
| M36x4 | 1.4173 | 36.0000 | ~7 | 4.000 | 32 mm |
| M39x4 | 1.5354 | 39.0000 | ~7 | 4.000 | 35 mm |
| M39x3 | 1.5354 | 39.0000 | ~9 | 3.000 | 36 mm |
| M42x4.5 | 1.6535 | 42.0000 | ~6 | 4.500 | 37.5 mm |
| M45x4.5 | 1.7717 | 45.0000 | ~6 | 4.500 | 40.5 mm |
| M48x5 | 1.8898 | 48.0000 | ~6 | 5.000 | 43 mm |
| M52x5 | 2.0472 | 52.0000 | ~6 | 5.000 | 47 mm |
| M56x5.5 | 2.2047 | 56.0000 | ~5 | 5.500 | 50.5 mm |
| M60x5.5 | 2.3622 | 60.0000 | ~5 | 5.500 | 54.5 mm |
| M64x6 | 2.5197 | 64.0000 | ~5 | 6.000 | 58 mm |
| M68x6 | 2.6772 | 68.0000 | ~5 | 6.000 | 62 mm |