

DECIMAL EQUIVALENT CONVERSION CHART

Fraction, Metric, Number & Letter Sizes

| Size | Decimal Inches | Size | Decimal Inches | Size | Decimal Inches | Size | Decimal Inches | Size | Decimal Inches | Size | Decimal Inches | Size | Decimal Inches |
|-----------------|----------------|-----------------|----------------|-----------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|
| 97 | .0059 | .9 mm | .0354 | 43 | .0890 | 4.1 mm | .1614 | 6.2 mm | .2441 | 11/32 in. | .3438 | 19/32 in. | .5938 |
| 96 | .0063 | 64 | .0360 | 2.3 mm | .0906 | 4.2 mm | .1654 | D | .2460 | 8.75 mm | .3445 | 39/64 in. | .6094 |
| 95 | .0067 | 63 | .0370 | 2.35 mm | .0925 | 19 | .1660 | 6.25 mm | .2461 | 8.8 mm | .3465 | 15.5 mm | .6102 |
| 94 | .0071 | .95 mm | .0374 | 42 | .0935 | 4.25 mm | .1673 | 6.3 mm | .2480 | S | .3480 | 5/8 in. | .6250 |
| 93 | .0075 | 62 | .0380 | 3/32 in. | .0938 | 4.3 mm | .1693 | E | .2500 | 8.9 mm | .3504 | 16 mm | .6299 |
| 9 | .0079 | 61 | .0390 | 2.4 mm | .0945 | 18 | .1695 | 1/4 in. | .2500 | 9 mm | .3543 | 41/64 in. | .6406 |
| .2 mm | .0079 | 1 mm | .0394 | 41 | .0960 | 11/64 in. | .1719 | 6.4 mm | .2520 | T | .3580 | 16.5 mm | .6496 |
| 91 | .0083 | 60 | .0400 | 2.45 mm | .0965 | 17 | .1730 | 6.5 mm | .2559 | 9.1 mm | .3583 | 21/32 in. | .6562 |
| 90 | .0087 | 59 | .0410 | 40 | .0980 | 4.4 mm | .1732 | F | .2570 | 23/64 in. | .3594 | 17 mm | .6693 |
| .22 mm | .0087 | 1.05 mm | .0413 | 2.5 mm | .0984 | 16 | .1770 | 6.6 mm | .2598 | 9.2 mm | .3622 | 43/64 in. | .6719 |
| 89 | .0091 | 58 | .0420 | 39 | .0995 | 4.5 mm | .1772 | G | .2610 | 9.25 mm | .3642 | 11/16 in. | .6875 |
| 88 | .0095 | 57 | .0430 | 38 | .1015 | 15 | .1800 | 6.7 mm | .2638 | 9.3 mm | .3661 | 17.5 mm | .6890 |
| .25 mm | .0098 | 1.1 mm | .0433 | 2.6 mm | .1024 | 4.6 mm | .1811 | 17/64 in. | .2656 | U | .3680 | 45/64 in. | .7031 |
| 87 | .0100 | 1.15 mm | .0453 | 37 | .1040 | 14 | .1820 | 6.75 mm | .2657 | 9.4 mm | .3701 | 18 mm | .7087 |
| 86 | .0105 | 56 | .0465 | 2.7 mm | .1063 | 13 | .1850 | H | .2660 | 9.5 mm | .3740 | 23/32 in. | .7188 |
| 85 | .0110 | 3/64 in. | .0469 | 36 | .1065 | 4.7 mm | .1850 | 6.8 mm | .2677 | 9.6 mm | .3780 | 18.5 mm | .7283 |
| .28 mm | .0110 | 1.2 mm | .0472 | 2.75 mm | .1083 | 4.75 mm | .1870 | 6.9 mm | .2717 | V | .3770 | 47/64 in. | .7344 |
| 84 | .0115 | 1.25 mm | .0492 | 7/64 in. | .1094 | 35 | .1100 | I | .2720 | 9.7 mm | .3819 | 19 mm | .7480 |
| .3 mm | .0118 | 1.3 mm | .0512 | 35 | .1100 | 4.8 mm | .1890 | 7 mm | .2756 | 9.75 mm | .3839 | 3/4 in. | .7500 |
| 83 | .0120 | 55 | .0520 | 2.8 mm | .1102 | 12 | .1890 | J | .2770 | 9.8 mm | .3858 | 49/64 in. | .7656 |
| 82 | .0125 | 1.35 mm | .0531 | 34 | .1110 | 11 | .1910 | 7.1 mm | .2795 | 9.8 mm | .3858 | 19.5 mm | .7677 |
| .32 mm | .0126 | 54 | .0550 | 33 | .1130 | 4.9 mm | .1929 | K | .2810 | W | .3860 | 25/32 in. | .7812 |
| 81 | .0130 | 1.4 mm | .0551 | 2.9 mm | .1142 | 10 | .1935 | 9/32 in. | .2812 | 9.9 mm | .3898 | 20 mm | .7874 |
| 80 | .0135 | 1.45 mm | .0571 | 32 | .1160 | 9 | .1960 | 7.2 mm | .2835 | 10 mm | .3937 | 51/64 in. | .7969 |
| .35 mm | .0138 | 1.5 mm | .0591 | 3 mm | .1181 | 5 mm | .1969 | 7.25 mm | .2854 | 10 mm | .3937 | 20.5 mm | .8071 |
| 79 | .0145 | 53 | .0595 | 31 | .1200 | 8 | .1990 | 7.3 mm | .2874 | X | .3970 | 13/16 in. | .8125 |
| 1/64 in. | .0156 | 1.55 mm | .0610 | 3.1 mm | .1220 | 5.1 mm | .2008 | L | .2900 | 10.25 mm | .4016 | 21 mm | .8268 |
| .4 mm | .0157 | 1/16 in. | .0625 | 1/8 in. | .1250 | 7 | .2010 | 7.4 mm | .2913 | Y | .4040 | 53/64 in. | .8281 |
| 78 | .0160 | 1.6 mm | .0630 | 3.2 mm | .1260 | 13/64 in. | .2031 | M | .2950 | 13/32 in. | .4062 | 27/32 in. | .8438 |
| .45 mm | .0177 | 52 | .0635 | 3.25 mm | .1280 | 6 | .2040 | 7.5 mm | .2953 | Z | .4130 | 21.5 mm | .8465 |
| 77 | .0180 | 1.65 mm | .0650 | 30 | .1285 | 5.2 mm | .2047 | 19/64 in. | .2969 | 10.5 mm | .4134 | 55/64 in. | .8594 |
| .5 mm | .0197 | 1.7 mm | .0669 | 3.3 mm | .1299 | 5 | .2055 | 7.6 mm | .2992 | 27/64 in. | .4219 | 22 mm | .8661 |
| 76 | .0200 | 51 | .0670 | 3.4 mm | .1339 | 5.25 mm | .2067 | N | .3020 | 10.75 mm | .4232 | 7/8 in. | .8750 |
| 75 | .0210 | 1.75 mm | .0689 | 29 | .1360 | 5.3 mm | .2087 | 7.7 mm | .3031 | 11 mm | .4331 | 22.5 mm | .8858 |
| .55 mm | .0217 | 50 | .0700 | 3.5 mm | .1378 | 4 | .2090 | 7.75 mm | .3051 | 7/16 in. | .4375 | 57/64 in. | .8906 |
| 74 | .0225 | 1.8 mm | .0709 | 28 | .1405 | 5.4 mm | .2196 | 7.8 mm | .3071 | 11.5 mm | .4528 | 23 mm | .9055 |
| .6 mm | .0236 | 1.85 mm | .0728 | 9/64 in. | .1406 | 3 | .2130 | 7.9 mm | .3110 | 29/64 in. | .4531 | 29/32 in. | .9062 |
| 73 | .0240 | 49 | .0730 | 3.6 mm | .1417 | 5.5 mm | .2165 | 5/16 in. | .3125 | 15/32 in. | .4688 | 59/64 in. | .9219 |
| 72 | .0250 | 1.9 mm | .0748 | 27 | .1440 | 7/32 in. | .2188 | 8 mm | .3150 | 12 mm | .4724 | 23.5 mm | .9252 |
| .65 mm | .0256 | 48 | .0760 | 3.7 mm | .1457 | 5.6 mm | .2205 | O | .3160 | 31/64 in. | .4844 | 15/16 in. | .9375 |
| 71 | .0260 | 1.95 mm | .0768 | 26 | .1470 | 2 | .2210 | 8.1 mm | .3189 | 12.5 mm | .4921 | 24 mm | .9449 |
| .7 mm | .0276 | 5/64 in. | .0781 | 3.75 mm | .1476 | 5.7 mm | .2244 | 8.2 mm | .3228 | 1/2 in. | .5000 | 61/64 in. | .9531 |
| 70 | .0280 | 47 | .0785 | 25 | .1495 | 5.75 mm | .2264 | P | .3230 | 13 mm | .5118 | 24.5 mm | .9646 |
| 69 | .0292 | 2 mm | .0787 | 3.8 mm | .1496 | 1 | .2280 | 8.25 mm | .3248 | 33/64 in. | .5156 | 31/32 in. | .9688 |
| .75 mm | .0295 | 2.05 mm | .0807 | 24 | .1520 | 5.8 mm | .2283 | 8.3 mm | .3268 | 17/32 in. | .5312 | 25 mm | .9843 |
| 68 | .0310 | 46 | .0810 | 3.9 mm | .1535 | 5.9 mm | .2323 | 21/64 in. | .3281 | 13.5 mm | .5315 | 63/64 in. | .9844 |
| .8 mm | .0315 | 45 | .0820 | 23 | .1540 | A | .2340 | 8.4 mm | .3307 | 35/64 in. | .5469 | 1 in. | 1.0000 |
| 67 | .0320 | 2.1 mm | .0827 | 5/32 in. | .1562 | 15/64 in. | .2344 | Q | .3320 | 14 mm | .5512 | | |
| 66 | .0330 | 2.15 mm | .0846 | 22 | .1570 | 6 mm | .2362 | 8.5 mm | .3346 | 9/16 in. | .5625 | | |
| .85 mm | .0335 | 44 | .0860 | 4 mm | .1575 | B | .2380 | 8.6 mm | .3386 | 14.5 mm | .5709 | | |
| 65 | .0350 | 2.2 mm | .0866 | 21 | .1590 | 6.1 mm | .2402 | R | .3390 | 37/64 in. | .5781 | | |
| | | 2.25 mm | .0886 | 20 | .1610 | C | .2420 | 8.7 mm | .6425 | 15 mm | .5906 | | |

TAPPING DRILL SIZES

| ISO (International Standardization Organization) METRIC | | | | | | | |
|---|--------|-----------------|-------------|--------|-----------------|------------|-----------------|
| COARSE THREAD | | FINE THREAD | | | | | |
| Tap Size | T.P.I. | Drill Size (mm) | Tap Size | T.P.I. | Drill Size (mm) | Tap Size | Drill Size (mm) |
| M 1 x .25 | 102 | .75 | M 2 x 25 | 102 | 1.75 | M 20 x 1 | 25-1/2 19 |
| M 1.1 x .25 | 102 | .85 | M 2.2 x .25 | 102 | 1.95 | M 20 x 1.5 | 17 18.5 |
| M 1.2 x .25 | 102 | .95 | M 2.3 x .25 | 63-1/2 | 2.05 | M 20 x 2 | 12-1/2 18 |
| M 1.4 x .3 | 85 | 1.1 | M 2.5 x .35 | 72-1/2 | 2.15 | M 22 x 1 | 25-1/2 21 |
| M 1.6 x .35 | 72-1/2 | 1.25 | M 2.6 x .35 | 72-1/2 | 2.25 | M 22 x 1.5 | 17 20.5 |
| M 1.7 x .35 | 72-1/2 | 1.35 | M 3 x .35 | 72-1/2 | 2.65 | M 22 x 2 | 12-1/2 20 |
| M 1.8 x .35 | 72-1/2 | 1.45 | M 3.5 x .35 | 72-1/2 | 3.15 | M 24 x 1.5 | 17 22.5 |
| M 2 x .4 | 63-1/2 | 1.6 | M 4 x .35 | 72-1/2 | 3.65 | M 24 x 2 | 12-1/2 22 |
| M 2.2 x .45 | 56-1/2 | 1.75 | M 4 x .5 | 51 | 3.5 | M 26 x 1.5 | 17 24.5 |
| M 2.3 x .4 | 63-1/2 | 1.9 | M 5 x .35 | 72-1/2 | 4.65 | M 27 x 1.5 | 17 25.5 |
| M 2.5 x .45 | 56-1/2 | 2.05 | M 5 x .5 | 51 | 4.5 | M 27 x 2 | 12-1/2 25 |
| M 2.6 x .45 | 56-1/2 | 2.15 | M 5 x .75 | 34 | 4.25 | M 28 x 1.5 | 17 26.5 |
| M 3 x .5 | 51 | 2.5 | M 5.5 x .5 | 51 | 5.0 | M 30 x 1.5 | 17 28.5 |
| M 3.5 x .6 | 42 | 2.9 | M 6 x .5 | 51 | 5.5 | M 30 x 2 | 12-1/2 28 |
| M 4 x .7 | 36 | 3.3 | M 6 x .75 | 34 | 5.25 | M 33 x 2 | 12-1/2 31 |
| M 4.5 x .75 | 34 | 3.75 | M 7 x .75 | 34 | 6.25 | M 36 x 3 | 8-1/2 33 |
| M 5 x .8 | 32 | 4.2 | M 8 x .5 | 51 | 7.5 | M 39 x 3 | 8-1/2 36 |
| M 6 x 1 | 25-1/2 | 5 | M 8 x .75 | 34 | 7.25 | | |
| M 7 x 1 | 25-1/2 | 6 | M 8 x 1 | 25-1/2 | 7 | | |
| M 8 x 1.25 | 20 | 6.75 | M 9 x .75 | 34 | 8.25 | | |
| M 9 x 1.25 | 20 | 7.75 | M 9 x 1 | 25-1/2 | 8.0 | | |
| M 10 x 1.5 | 17 | 8.5 | M 10 x .5 | 51 | 9.5 | | |
| M 11 x 1.5 | 17 | 9.5 | M 10 x .75 | 34 | 9.25 | | |
| M 12 x 1.75 | 14-1/2 | 10.2 | M 10 x 1 | 25-1/2 | 9.0 | | |
| M 14 x 2 | 12-1/2 | 12 | M 10 x 1.25 | 20 | 8.75 | | |
| M 15 x 2 | 12-1/2 | 13 | M 11 x .75 | 34 | 10.25 | | |
| M 16 x 2 | 12-1/2 | 14 | M 11 x 1 | 25-1/2 | 10.0 | | |
| M 18 x 2.5 | 10 | 15.5 | M 11 x 1.25 | 20 | 9.75 | | |
| M 20 x 2.5 | 10 | 17.5 | M 12 x .5 | 51 | 11.5 | | |
| M 22 x 2.5 | 10 | 19.5 | M 12 x .75 | 34 | 11.25 | | |
| M 24 x 3 | 8-1/2 | 21 | M 12 x 1 | 25-1/2 | 11 | | |
| M 27 x 3 | 8-1/2 | 24 | M 12 x 1.5 | 17 | 10.5 | | |
| M 30 x 3.5 | 7-1/4 | 26.5 | M 14 x 1 | 25-1/2 | 13 | | |
| M 33 x 3.5 | 7-1/4 | 29.5 | M 14 x 1.25 | 20 | 12.8 | | |
| M 36 x 4 | 6 | 32 | M 14 x 1.5 | 17 | 12.5 | | |
| M 39 x 4 | 6 | 35 | M 16 x 1 | 25-1/2 | 15 | | |
| | | | M 16 x 1.5 | 17 | 14.5 | | |
| | | | M 18 x 1 | 25-1/2 | 17 | | |
| | | | M 18 x 2 | 12-1/2 | 16 | | |

| BSP - BRITISH STANDARD PIPE (Straight) | | |
|--|--------|-----------------|
| Tap Size | T.P.I. | Drill Size (mm) |
| 1/16 BSP | 28 | 6.6 |
| 1/8 BSP | 28 | 8.75 |
| 1/4 BSP | 19 | 11.75 |
| 3/8 BSP | 19 | 15.25 |
| 1/2 BSP | 14 | 19 |
| 5/8 BSP | 14 | 21 |
| 3/4 BSP | 14 | 24.5 |
| 7/8 BSP | 14 | 28.25 |
| 1 BSP | 11 | 30.75 |
| 1-1/4 BSP | 11 | 39.5 |
| 1-3/8 BSP | 11 | 41.5 |
| 1-1/2 BSP | 11 | 45.25 |
| 1-3/4 BSP | 11 | 51 |
| 2 BSP | 11 | 57.25 |

| UNIFIED NATIONAL THREAD SERIES | | | |
|--------------------------------|------------|------------|------------|
| COARSE (UNC) | | FINE (UNF) | |
| Tap Size | Drill Size | Tap Size | Drill Size |
| 1-64 | No. 53 | 0-80 | 3/64 |
| 2-56 | No. 51 | 1-72 | No. 53 |
| 3-48 | 5/64 | 2-64 | No. 50 |
| 4-40 | No. 43 | 3-56 | No. 46 |
| 5-40 | No. 39 | 4-48 | No. 42 |
| 6-32 | No. 36 | 5-44 | No. 37 |
| 8-32 | No. 29 | 6-40 | No. 33 |
| 10-24 | No. 25 | 8-36 | No. 29 |
| 12-24 | No. 17 | 10-32 | No. 21 |
| 14-20 | No. 7 | 12-28 | No. 15 |
| 5/16-18 | F | 1/4-28 | No. 3 |
| 3/8-16 | 5/16 | 5/16-24 | I |
| 7/16-14 | U | 3/8-24 | Q |
| 1/2-13 | 27/64 | 7/16-20 | W |
| 9/16-12 | 31/64 | 1/2-20 | 29/64 |
| 5/8-11 | 17/32 | 9/16-18 | 33/64 |
| 3/4-10 | 21/32 | 5/8-18 | 37/64 |
| 7/8-9 | 49/64 | 3/4-16 | 11/16 |
| 1-8 | 7/8 | 7/8-14 | 13/16 |
| 1-1/8-7 | 63/64 | 1-14 | 15/16 |
| 1-1/4-7 | 1-7/64 | 1-1/8-12 | 1-3/64 |
| 1-1/2-6 | 1-11/32 | 1-1/4-12 | 1-11/64 |
| 1-3/4-5 | 1-35/64 | 1-1/2-12 | 1-27/64 |
| 2-4-1/2 | 1/25/32 | 1-3/4-12 | 1-43/64 |
| | | 2-12 | 1-59/64 |

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