DECIMAL EQUIVALENT CONVERSION CHART

Fraction, Metric, Number & Letter Sizes

Size	Decimal Inches
97	.0059
96	.0063
95	.0067
94	.0071
93	.0075
9	.0079
.2 mm	.0079
91	.0083
90	.0087
.22 mm	.0087
89	.0091
88	.0095
.25 mm	.0098
87	.0100
86	.0105
85	.0110
.28 mm	.0110
84	.0115
.3 mm	.0118
83	.0120
82	.0125
.32 mm	.0126
81	.0130
80	.0135
.35 mm	.0138
79	.0145
1/64 in.	**.0156**
.4 mm	.0157
78	.0160
.45 mm	.0177
77	.0180
.5 mm	.0197
76	.0200
75	.0210
.55 mm	.0217
74	.0225
.6 mm	.0236
73	.0240
72	.0250
.65 mm	.0256
71	.0260
.7 mm	.0276
70	.0280
69	.0292
.75 mm	.0295
68	.0310
1/32 in.	**.0312**
.8 mm	.0315
67	.0320
66	.0330
.85 mm	.0335
65	.0350

Size	Decimal Inches
.9 mm	.0354
64	.0360
63	.0370
.95 mm	.0374
62	.0380
61	.0390
1 mm	.0394
60	.0400
59	.0410
1.05 mm	.0413
58	.0420
57	.0430
1.1 mm	.0433
1.15 mm	.0453
56	.0465
3/64 in.	**.0469**
1.2 mm	.0472
1.25 mm	.0492
1.3 mm	.0512
55	.0520
1.35 mm	.0531
54	.0550
1.4 mm	.0551
1.45 mm	.0571
1.5 mm	.0591
53	.0595
1.55 mm	.0610
1/16 in.	**.0625**
1.6 mm	.0630
52	.0635
1.65 mm	.0650
1.7 mm	.0669
51	.0670
1.75 mm	.0689
50	.0700
1.8 mm	.0709
1.85 mm	.0728
49	.0730
1.9 mm	.0748
48	.0760
1.95 mm	.0768
5/64 in.	**.0781**
47	.0785
2 mm	.0787
2.05 mm	.0807
46	.0810
45	.0820
2.1 mm	.0827
2.15 mm	.0846
44	.0860
2.2 mm	.0866
2.25 mm	.0886

Size	Decimal Inches
43	.0890
2.3 mm	.0906
2.35 mm	.0925
42	.0935
3/32 in.	**.0938**
2.4 mm	.0945
41	.0960
2.45 mm	.0965
40	.0980
2.5 mm	.0984
39	.0995
38	.1015
2.6 mm	.1024
37	.1040
2.7 mm	.1063
36	.1065
2.75 mm	.1083
7/64 in.	**.1094**
35	.1100
2.8 mm	.1102
34	.1110
33	.1130
2.9 mm	.1142
32	.1160
3 mm	.1181
31	.1200
3.1 mm	.1220
1/8 in.	**.1250**
3.2 mm	.1260
3.25 mm	.1280
30	.1285
3.3 mm	.1299
3.4 mm	.1339
29	.1360
3.5 mm	.1378
28	.1405
9/64 in.	**.1406**
3.6 mm	.1417
27	.1440
3.7 mm	.1457
26	.1470
3.75 mm	.1476
25	.1495
3.8 mm	.1496
24	.1520
3.9 mm	.1535
23	.1540
5/32 in.	**.1562**
22	.1570
4 mm	.1575
21	.1590
20	.1610

Size	Decimal Inches
4.1 mm	.1614
4.2 mm	.1654
19	.1660
4.25 mm	.1673
4.3 mm	.1693
18	.1695
11/64 in.	**.1719**
17	.1730
4.4 mm	.1732
16	.1770
4.5 mm	.1772
15	.1800
4.6 mm	.1811
14	.1820
13	.1850
4.7 mm	.1850
4.75 mm	.1870
3/16 in.	**.1875**
4.8 mm	.1890
12	.1890
11	.1910
4.9 mm	.1929
10	.1935
9	.1960
5 mm	.1969
8	.1990
5.1 mm	.2008
7	.2010
13/64 in.	**.2031**
6	.2040
5.2 mm	.2047
5	.2055
5.25 mm	.2067
5.3 mm	.2087
4	.2090
5.4 mm	.2196
3	.2130
5.5 mm	.2165
7/32 in.	**.2188**
5.6 mm	.2205
2	.2210
5.7 mm	.2244
5.75 mm	.2264
1	.2280
5.8 mm	.2283
5.9 mm	.2323
A	.2340
15/64 in.	**.2344**
6 mm	.2362
B	.2380
6.1 mm	.2402
C	.2420

Size	Decimal Inches
6.2 mm	.2441
D	.2460
6.25 mm	.2461
6.3 mm	.2480
E	.2500
1/4 in.	**.2500**
6.4 mm	.2520
6.5 mm	.2559
F	.2570
6.6 mm	.2598
G	.2610
6.7 mm	.2638
17/64 in.	**.2656**
6.75 mm	.2657
H	.2660
6.8 mm	.2677
6.9 mm	.2717
I	.2720
7 mm	.2756
J	.2770
7.1 mm	.2795
K	.2810
9/32 in.	**.2812**
7.2 mm	.2835
7.25 mm	.2854
7.3 mm	.2874
L	.2900
7.4 mm	.2913
M	.2950
7.5 mm	.2953
19/64 in.	**.2969**
7.6 mm	.2992
N	.3020
7.7 mm	.3031
7.75 mm	.3051
7.8 mm	.3071
7.9 mm	.3110
5/16 in.	**.3125**
8 mm	.3150
O	.3160
8.1 mm	.3189
8.2 mm	.3228
P	.3230
8.25 mm	.3248
8.3 mm	.3268
21/64 in.	**.3281**
8.4 mm	.3307
Q	.3320
8.5 mm	.3346
8.6 mm	.3386
R	.3390
8.7 mm	.3425

Size	Decimal Inches
11/32 in.	**.3438**
8.75 mm	.3445
8.8 mm	.3465
S	.3480
8.9 mm	.3504
9 mm	.3543
T	.3580
9.1 mm	.3583
23/64 in.	**.3594**
9.2 mm	.3622
9.25 mm	.3642
9.3 mm	.3661
U	.3680
9.4 mm	.3701
9.5 mm	.3740
3/8 in.	**.3750**
V	.3770
9.6 mm	.3780
9.7 mm	.3819
9.75 mm	.3839
9.8 mm	.3858
W	.3860
9.9 mm	.3898
25/64 in.	**.3906**
10 mm	.3937
X	.3970
10.25 mm	.4016
Y	.4040
13/32 in.	**.4062**
Z	.4130
10.5 mm	.4134
27/64 in.	**.4219**
10.75 mm	.4232
11 mm	.4331
7/16 in.	**.4375**
11.5 mm	.4528
29/64 in.	**.4531**
15/32 in.	**.4688**
12 mm	.4724
31/64 in	**.4844**
12.5 mm	.4921
1/2 in.	**.5000**
13 mm	.5118
33/64 in.	**.5156**
17/32 in.	**.5312**
13.5 mm	.5315
35/64 in.	**.5469**
14 mm	.5512
9/16 in.	**.5625**
14.5 mm	.5709
37/64 in.	**.5781**
15 mm	.5906

Size	Decimal Inches
19/32 in.	**.5938**
39/64 in.	**.6094**
15.5 mm	.6102
5/8 in.	**.6250**
16 mm	.6299
41/64 in.	**.6406**
16.5 mm	.6496
21/32 in.	**.6562**
17 mm	.6693
43/64 in.	**.6719**
11/16 in.	**.6875**
17.5 mm	.6890
45/64 in.	**.7031**
18 mm	.7087
23/32 in.	**.7188**
18.5 mm	.7283
47/64 in.	**.7344**
19 mm	.7480
3/4 in.	**.7500**
49/64 in.	**.7656**
19.5 mm	.7677
25/32 in.	**.7812**
20 mm	.7874
51/64 in.	**.7969**
20.5 mm	.8071
13/16 in.	**.8125**
21 mm	.8268
53/64 in.	**.8281**
27/32 in.	**.8438**
21.5 mm	.8465
55/64 in.	**.8594**
22 mm	.8661
7/8 in.	**.8750**
22.5 mm	.8858
57/64 in.	**.8906**
23 mm	.9055
29/32 in.	**.9062**
59/64 in.	**.9219**
23.5 mm	.9252
15/16 in.	**.9375**
24 mm	.9449
61/64 in.	**.9531**
24.5 mm	.9646
31/32 in.	**.9688**
25 mm	.9843
63/64 in.	**.9844**
1 in.	**1.0000**

TAPPING DRILL SIZES

ISO (International Standardization Organization) METRIC

COARSE THREAD

Tap Size	T.P.I.	Drill Size (mm)
M 1 x .25	102	.75
M 1.1 x .25	102	.85
M 1.2 x .25	102	.95
M 1.4 x .3	85	1.1
M 1.6 x .35	72-1/2	1.25
M 1.7 x .35	72-1/2	1.35
M 1.8 x .35	72-1/2	1.45
M 2 x .4	63-1/2	1.6
M 2.2 x .45	56-1/2	1.75
M 2.3 x .4	63-1/2	1.9
M 2.5 x .45	56-1/2	2.05
M 2.6 x .45	56-1/2	2.15
M 3 x .5	51	2.5
M 3.5 x .6	42	2.9
M 4 x .7	36	3.3
M 4.5 x .75	34	3.75
M 5 x .8	32	4.2
M 6 x 1	25-1/2	5
M 7 x 1	25-1/2	6
M 8 x 1.25	20	6.75
M 9 x 1.25	20	7.75
M 10 x 1.5	17	8.5
M 11 x 1.5	17	9.5
M 12 x 1.75	14-1/2	10.2
M 14 x 2	12-1/2	12
M 15 x 2	12-1/2	13
M 16 x 2	12-1/2	14
M 18 x 2.5	10	15.5
M 20 x 2.5	10	17.5
M 22 x 2.5	10	19.5
M 24 x 3	8-1/2	21
M 27 x 3	8-1/2	24
M 30 x 3.5	7-1/4	26.5
M 33 x 3.5	7-1/4	29.5
M 36 x 4	6	32
M 39 x 4	6	35

FINE THREAD

Tap Size	T.P.I.	Drill Size (mm)
M 2 x 25	102	1.75
M 2.2 x .25	102	1.95
M 2.3 x .25	63-1/2	2.05
M 2.5 x .35	72-1/2	2.15
M 2.6 x .35	72-1/2	2.25
M 3 x .35	72-1/2	2.65
M 3.5 x .35	72-1/2	3.15
M 4 x .35	72-1/2	3.65
M 4 x .5	51	3.5
M 5 x .35	72-1/2	4.65
M 5 x .5	51	4.5
M 5 x .75	34	4.25
M 5.5 x .5	51	5.0
M 6 x .5	51	5.5
M 6 x .75	34	5.25
M 7 x .75	34	6.25
M 8 x .5	51	7.5
M 8 x .75	34	7.25
M 8 x 1	25-1/2	7
M 9 x .75	34	8.25
M 9 x 1	25-1/2	8.0
M 10 x .5	51	9.5
M 10 X .75	34	9.25
M 10 x 1	25-1/2	9.0
M 10 x 1.25	20	8.75
M 11 x .75	34	10.25
M 11 x 1	25-1/2	10.0
M 11 x 1.25	20	9.75
M 12 x .5	51	11.5
M 12 x .75	34	11.25
M 12 x 1	25-1/2	11
M 12 x 1.5	17	10.5
M 14 x 1	25-1/2	13
M 14 x 1.25	20	12.8
M 14 x 1.5	17	12.5
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
M 20 x 1	25-1/2	19
M 20 x 1.5	17	18.5
M 20 x 2	12-1/2	18
M 22 x 1	25-1/2	21
M 22 x 1.5	17	20.5
M 22 x 2	12-1/2	20
M 24 x 1.5	17	22.5
M 24 x 2	12-1/2	22
M 26 x 1.5	17	24.5
M 27 x 1.5	17	25.5
M 27 x 2	12-1/2	25
M 28 x 1.5	17	26.5
M 30 x 1.5	17	28.5
M 30 x 2	12-1/2	28
M 33 x 2	12-1/2	31
M 36 x 3	8-1/2	33
M 39 x 3	8-1/2	36

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)

Tap Size	Drill Size
1–64	No. 53
2–56	No. 51
3–48	5/64
4–40	No. 43
5–40	No. 39
6–32	No. 36
8–32	No. 29
10–24	No. 25
12–24	No. 17
1/4–20	No. 7
5/16–18	F
3/8–16	5/16
7/16–14	U
1/2–13	27/64
9/16–12	31/64
5/8–11	17/32
3/4–10	21/32
7/8–9	49/64
1–8	7/8
1-1/8–7	63/64
1-1/4–7	1-7/64
1-1/2–6	1-11/32
1-3/4–5	1-35/64
2–4-1/2	1/25/32

FINE (UNF)

Tap Size	Drill Size
0–80	3/64
1–72	No. 53
2–64	No. 50
3–56	No. 46
4–48	No. 42
5–44	No. 37
6–40	No. 33
8–36	No. 29
10–32	No. 21
12–28	No. 15
1/4–28	No. 3
5/16–24	I
3/8–24	Q
7/16–20	W
1/2–20	29/64
9/16–18	33/64
5/8–18	37/64
3/4–16	11/16
7/8–14	13/16
1–14	15/16
1-1/8–12	1-3/64
1-1/4–12	1-11/64
1-1/2–12	1-27/64
1-3/4–12	1-43/64
2–12	1-59/64

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PIPE SIZES

TAPER (NPT)

Tap Size	Drill Size*
1/16–27	D
1/8–27	R
1/4–18	7/16
3/8–18	37/64
1/2–14	45/64
3/4–14	59/64
1–11-1/2	1-5/32
1-1/4–11-1/2	1-1/2
1-1/2–11-1/2	1-47/64
2–11-1/2	2-7/32
2-1/2–8	2-5/8
3–8	3-1/4
3-1/2–8	3-3/4
4–8	4-1/4

*** For tapping without reaming**

STRAIGHT (NPS)

Tap Size	Drill Size
1/16–27	1/4
1/8–27	11/32
1/4–18	7/16
3/8–18	37/64
1/2–14	23/32
3/4–14	59/64
1–11-1/2	1-5/32
1-1/4–11-1/2	1-1/2
1-1/2–11-1/2	1-3/4
2–11-1/2	2-7/32
2-1/2–8	2-21/32
3–8	3-9/32
3-1/2–8	3-25/32
4–8	4-9/32

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