

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	3/8 in.	.3750	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	3/16 in.	.1875	I	.2720	9.6 mm	.3780	19 mm	.7480
.3 mm	.0118	1.3 mm	.0512	35	.1100	4.8 mm	.1890	7 mm	.2756	9.7 mm	.3819	3/4 in.	.7500
83	.0120	55	.0520	2.8 mm	.1102	12	.1890	J	.2770	9.75 mm	.3839	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	9.9 mm	.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	25/64 in.	.3906	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
1/32 in.	.0312	45	.0820	23	.1540	A	.2340	8.4 mm	.3307	35/64 in.	.5469	1 in.	1.0000
.8 mm	.0315	2.1 mm	.0827	5/32 in.	.1562	15/64 in.	.2344	Q	.3320	14 mm	.5512		
67	.0320	2.15 mm	.0846	22	.1570	6 mm	.2362	8.5 mm	.3346	9/16 in.	.5625		
66	.0330	44	.0860	4 mm	.1575	B	.2380	8.6 mm	.3386	14.5 mm	.5709		
.85 mm	.0335	2.2 mm	.0866	21	.1590	6.1 mm	.2402	R	.3390	37/64 in.	.5781		
65	.0350	2.25 mm	.0886	20	.1610	C	.2420	8.7 mm	.6425	15 mm	.5906		

TAPPING DRILL SIZES

ISO (International Standardization Organization) METRIC								UNIFIED NATIONAL THREAD SERIES				PIPE SIZES		
COARSE THREAD			FINE THREAD					COARSE (UNC)		FINE (UNF)		TAPER (NPT)		
Tap Size	T.P.I.	Drill Size (mm)	Tap Size	T.P.I.	Drill Size (mm)	Tap Size	T.P.I.	Drill Size (mm)	Tap Size	Drill Size	Tap Size	Drill Size	Tap Size	Drill Size*
M 1 x .25	102	.75	M 2 x 25	102	1.75	M 20 x 1	25-1/2	19	1-64	No. 53	0-80	3/64	1/16-27	D
M 1.1 x .25	102	.85	M 2.2 x .25	102	1.95	M 20 x 1.5	17	18.5	2-56	No. 51	1-72	No. 53	1/8-27	R
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	3-48	5/64	2-64	No. 50	1/4-18	7/16
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	4-40	No. 43	3-56	No. 46	3/8-18	37/64
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	5-40	No. 39	4-48	No. 42	1/2-14	45/64
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	6-32	No. 36	5-44	No. 37	3/4-14	59/64
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	8-32	No. 29	6-40	No. 33	1-11-1/2	1-5/32
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	10-24	No. 25	8-36	No. 29	1-1/4-11-1/2	1-1/2
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	12-24	No. 17	10-32	No. 21	1-1/2-11-1/2	1-47/64
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	1/4-20	No. 7	12-28	No. 15	2-11-1/2	2-7/32
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	5/16-18	F	1/4-28	No. 3	2-1/2-8	2-5/8
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	3/8-16	5/16	5/16-24	I	3-8	3-1/4
M 3 x .5	51	2.5	M 5.5 x .5	51	5.0	M 30 x 1.5	17	28.5	7/16-14	U	3/8-24	Q	3-1/2-8	3-3/4
M 3.5 x .6	42	2.9	M 6 x .5	51	5.5	M 30 x 2	12-1/2	28	1/2-13	27/64	7/16-20	W	4-8	4-1/4
M 4 x .7	36	3.3	M 6 x .75	34	5.25	M 33 x 2	12-1/2	31	9/16-12	31/64	1/2-20	29/64	* For tapping without reaming	
M 4.5 x .75	34	3.75	M 7 x .75	34	6.25	M 36 x 3	8-1/2	33	5/8-11	17/32	9/16-18	33/64	STRAIGHT (NPS)	
M 5 x .8	32	4.2	M 8 x .5	51	7.5	M 39 x 3	8-1/2	36	3/4-10	21/32	5/8-18	37/64	Tap Size	Drill Size
M 6 x 1	25-1/2	5	M 8 x .75	34	7.25	BSP - BRITISH STANDARD PIPE (Straight)			7/8-9	49/64	3/4-16	11/16	1/16-27	1/4
M 7 x 1	25-1/2	6	M 8 x 1	25-1/2	7				1-8	7/8	7/8-14	13/16	1/8-27	11/32
M 8 x 1.25	20	6.75	M 9 x .75	34	8.25	Tap Size	T.P.I.	Drill Size (mm)	1-1/8-7	63/64	1-14	15/16	1/4-18	7/16
M 9 x 1.25	20	7.75	M 9 x 1	25-1/2	8.0	1/16 BSP	28	6.6	1-1/4-7	1-7/64	1-1/8-12	1-3/64	3/8-18	37/64
M 10 x 1.5	17	8.5	M 10 x .5	51	9.5	1/8 BSP	28	8.75	1-1/2-6	1-11/32	1-1/4-12	1-11/64	1/2-14	23/32
M 11 x 1.5	17	9.5	M 10 x .75	34	9.25	1/4 BSP	19	11.75	1-3/4-5	1-35/64	1-1/2-12	1-27/64	3/4-14	59/64
M 12 x 1.75	14-1/2	10.2	M 10 x 1	25-1/2	9.0	3/8 BSP	19	15.25	2-4-1/2	1/25/32	1-3/4-12	1-43/64	1-11-1/2	1-5/32
M 14 x 2	12-1/2	12	M 11 x .75	34	10.25	1/2 BSP	14	19			2-12	1-59/64	1-1/4-11-1/2	1-1/2
M 15 x 2	12-1/2	13	M 11 x 1	25-1/2	10.0	5/8 BSP	14	21					1-1/2-11-1/2	1-3/4
M 16 x 2	12-1/2	14	M 11 x 1.25	20	9.75	3/4 BSP	14	24.5					2-11-1/2	2-7/32
M 18 x 2.5	10	15.5	M 12 x .5	51	11.5	7/8 BSP	14	28.25					2-1/2-8	2-21/32
M 20 x 2.5	10	17.5	M 12 x .75	34	11.25	1 BSP	11	30.75					3-8	3-9/32
M 22 x 2.5	10	19.5	M 12 x 1	25-1/2	11	1-1/4 BSP	11	39.5					3-1/2-8	3-25/32
M 24 x 3	8-1/2	21	M 12 x 1.5	17	10.5	1-3/8 BSP	11	41.5					4-8	4-9/32
M 27 x 3	8-1/2	24	M 14 x 1	25-1/2	13	1-1/2 BSP	11	45.25						
M 30 x 3.5	7-1/4	26.5	M 14 x 1.25	20	12.8	1-3/4 BSP	11	51						
M 33 x 3.5	7-1/4	29.5	M 14 x 1.5	17	12.5	2 BSP	11	57.25						
M 36 x 4	6	32	M 16 x 1	25-1/2	15									
M 39 x 4	6	35	M 16 x 1.5	17	14.5									
			M 18 x 1	25-1/2	17									
			M 18 x 2	12-1/2	16									

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