

DECIMAL EQUIVALENTS CHART											
Drill Size	Decimal Inches	Drill Size	Decimal Inches	Drill Size	Decimal Inches	Drill Size	Decimal Inches	Drill Size	Decimal Inches	Drill Size	Decimal Inches
0.30mm	.0118	54	.0550	3.10mm	.1220	5.50mm	.2165	8.50mm	.3346	9/16	.5625
0.32mm	.0126	1.40mm	.0551	1/8	.1250	7/32	.2188	8.60mm	.3386	14.50mm	.5709
80	.0135	1.45mm	.0571	3.20mm	.1260	5.60mm	.2205	R	.3390	37/64	.5781
0.35mm	.0138	1.50mm	.0591	30	.1285	2	.2210	8.70mm	.3425	14.75mm	.5807
79	.0145	53	.0595	3.30mm	.1299	5.70mm	.2244	11/32	.3438	15.00mm	.5906
0.38mm	.0150	1.55mm	.0610	3.40mm	.1339	1	.2280	8.80mm	.3465	19/32	.5938
1/64	.0156	1/16	.0625	29	.1360	5.80mm	.2283	S	.3480	15.25mm	.6004
0.40mm	.0157	1.60mm	.0630	3.50mm	.1378	5.90mm	.2323	8.90mm	.3504	39/64	.6094
78	.0160	52	.0635	28	.1405	A	.2340	9.00mm	.3543	15.50mm	.6102
0.42mm	.0165	1.65mm	.0650	9/64	.1406	15/64	.2344	T	.3580	15.75mm	.6201
0.45mm	.0177	1.70mm	.0669	3.60mm	.1417	6.00mm	.2362	9.10mm	.3583	5/8	.6250
77	.0180	51	.0670	27	.1440	B	.2380	23/64	.3594	16.00mm	.6299
0.48mm	.0189	1.75mm	.0689	3.70mm	.1457	6.10mm	.2402	9.20mm	.3622	16.25mm	.6398
0.50mm	.0197	50	.0700	26	.1470	C	.2420	9.30mm	.3661	41/64	.6406
76	.0200	1.80mm	.0709	25	.1495	6.20mm	.2441	U	.3680	16.50mm	.6496
75	.0210	1.85mm	.0728	3.80mm	.1496	D	.2460	9.40mm	.3701	21/32	.6562
0.55mm	.0217	49	.0730	24	.1520	6.30mm	.2480	9.50mm	.3740	16.75mm	.6594
74	.0225	1.90mm	.0748	3.90mm	.1535	1/4, E	.2500	3/8	.3750	17.00mm	.6693
0.60mm	.0236	48	.0760	23	.1540	6.40mm	.2520	V	.3770	43/64	.6719
73	.0240	1.95mm	.0768	5/32	.1562	6.50mm	.2559	9.60mm	.3780	17.25mm	.6791
0.62mm	.0244	5/64	.0781	22	.1570	F	.2570	9.70mm	.3819	11/16	.6875
72	.0250	47	.0785	4.00mm	.1575	6.60mm	.2598	9.80mm	.3858	17.50mm	.6890
0.65mm	.0256	2.00mm	.0787	21	.1590	G	.2610	W	.3860	45/64	.7031
71	.0260	2.05mm	.0807	20	.1610	6.70mm	.2638	9.90mm	.3898	18.00mm	.7087
0.70mm	.0276	46	.0810	4.10mm	.1614	17/64	.2656	25/64	.3906	23/32	.7188
70	.0280	45	.0820	4.20mm	.1654	H	.2660	10.00mm	.3937	18.50mm	.7283
69	.0292	2.10mm	.0827	19	.1660	6.80mm	.2677	X	.3970	47/64	.7344
0.75mm	.0295	2.15mm	.0846	4.30mm	.1693	6.90mm	.2717	10.20mm	.4016	19.00mm	.7480
68	.0310	44	.0860	18	.1695	I	.2720	Y	.4040	3/4	.7500
1/32	.0312	2.20mm	.0866	11/64	.1719	7.00mm	.2756	13/32	.4062	49/64	.7656
0.80mm	.0315	2.25mm	.0886	17	.1730	J	.2770	Z	.4130	19.50mm	.7677
67	.0320	43	.0890	4.40mm	.1732	7.10mm	.2795	10.50mm	.4134	25/32	.7812
66	.0330	2.30mm	.0906	16	.1770	K	.2810	27/64	.4219	20.00mm	.7874
0.85mm	.0335	2.35mm	.0925	4.50mm	.1772	9/32	.2812	10.80mm	.4252	51/64	.7969
65	.0350	42	.0935	15	.1800	7.20mm	.2835	11.00mm	.4331	20.50mm	.8071
0.90mm	.0354	3/32	.0938	4.60mm	.1811	7.30mm	.2874	7/16	.4375	13/16	.8125
64	.0360	2.40mm	.0945	14	.1820	L	.2900	11.20mm	.4409	21.00mm	.8268
63	.0370	41	.0960	4.70mm, 13	.1850	7.40mm	.2913	11.50mm	.4528	53/64	.8281
0.95mm	.0374	2.45mm	.0965	3/16	.1875	M	.2950	29/64	.4531	27/32	.8438
62	.0380	40	.0980	4.80mm, 12	.1890	7.50mm	.2953	11.80mm	.4646	21.50mm	.8465
61	.0390	2.50mm	.0984	11	.1910	19/64	.2969	15/32	.4688	55/64	.8594
1.00mm	.0394	39	.0995	4.90mm	.1929	7.60mm	.2992	12.00mm	.4724	22.00mm	.8661
60	.0400	38	.1015	10	.1935	N	.3020	12.20mm	.4803	7/8	.8750
59	.0410	2.60mm	.1024	9	.1960	7.70mm	.3031	31/64	.4844	22.50mm	.8858
1.05mm	.0413	37	.1040	5.00mm	.1969	7.80mm	.3071	12.50mm	.4921	57/64	.8906
58	.0420	2.70mm	.1063	8	.1990	7.90mm	.3110	1/2	.5000	23.00mm	.9055
57	.0430	36	.1065	5.10mm	.2008	5/16	.3125	12.80mm	.5039	29/32	.9062
1.10mm	.0433	7/64	.1094	7	.2010	8.00mm	.3150	13.00mm	.5118	59/64	.9219
1.15mm	.0453	35	.1100	13/64	.2031	O	.3160	33/64	.5156	23.50mm	.9252
56	.0465	2.80mm	.1102	6	.2040	8.10mm	.3189	13.20mm	.5197	15/16	.9375
3/64	.0469	34	.1110	5.20mm	.2047	8.20mm	.3228	17/32	.5312	24.00mm	.9449
1.20mm	.0472	33	.1130	5	.2055	P	.3230	13.50mm	.5315	61/64	.9531
1.25mm	.0492	2.90mm	.1142	5.30mm	.2087	8.30mm	.3268	13.80mm	.5433	24.50mm	.9646
1.30mm	.0512	32	.1160	4	.2090	21/64	.3281	35/64	.5469	31/32	.9688
55	.0520	3.00mm	.1181	5.40mm	.2126	8.40mm	.3307	14.00mm	.5512	25.00mm	.9843
1.35mm	.0531	31	.1200	3	.2130	Q	.3320	14.25mm	.5610	63/64	.9844
								1"	1.0000		

TAP/DRILL RECOMMENDATIONS PIPE TAPS – NPT, NPTF, NPSM, NPSC, NPSF					
Nominal Pipe Tap Size	NPT & NPTF		NPSM	NPSC	NPSF
	W/O Reamer	W/Reamer			
1/16-27	C (.242)	A (.234)	—	—	D (.246)
1/8-27	Q (.332)	21/64	T (.358)	T (.358)	R (.339)
1/4-18	7/16	27/64	15/32	15/32	7/16
3/8-18	9/16	9/16	.603*	.557*	37/64
1/2-14	45/64	11/16	19.0mm	19.0mm	.714*
3/4-14	29/32	57/64	61/64	61/64	59/64
1-11/2	1-9/64	1-1/8	1-13/64	1-13/64	1-5/32
1-1/4-11-1/2	1-31/64	1-15/32	1.546*	1.506*	—
1-1/2-11-1/2	1-23/32	1-45/64	1-25/32	1-25/32	—
2-11-1/2	2-3/16	2-11/64	2-1/4	2-1/4	—

METRIC = GREEN FRACTIONAL = RED WIRE GAUGE = PURPLE LETTER SIZE = BLUE

TAP/DRILL RECOMMENDATIONS MACHINE SCREW, FRACTIONAL & METRIC SIZES

Inch Tap Size & Pitch	Metric	Cutting Taps		Forming Taps	
		Drill Size	Dec. Equiv.	Drill Size	Dec. Equiv.
0-80		3/64	.0469	54	.0550
	M1.6 x 0.35	1.25	.0492	1.45	.0571
	M1.8 x 0.35	1.45	.0571	1.65	.0650
1-64		53	.0595	51	.0670
1-72		53	.0595	51	.0670
	M2 x 0.40	1.60	.0630	1.80	.0709
2-56		50	.0700	5/64	.0781
2-64		50	.0700	47	.0785
	M2.2 x 0.45	1.75	.0689	2.00	.0787
	M2.5 x 0.45	2.05	.0807	2.30	.0906
3-48		47	.0785	43	.0890
3-56		46	.0810	2.30	.0906
4-40		43	.0890	38	.1015
4-48		42	.0935	2.60	.1024
	M3 x 0.50	2.50	.0984	7/64	.1094
5-40		38	.1015	33	.1130
5-44		37	.1040	2.90	.1142
	M3.5 x 0.60	2.90	.1142	3.20	.1260
6-32		36	.1065	1/8	.1250
6-40		33	.1130	3.25	.1280
	M4 x 0.70	3.30	.1299	3.70	.1457
8-32		29	.1360	25	.1495
8-36		29	.1360	24	.1520
	M4.5 x 0.75	3.70	.1457	4.10	.1614
10-24		26	.1470	11/64	.1719
10-32		21	.1590	16	.1770
	M5 x 0.80	4.20	.1654	14	.1820
12-24		16	.1770	8	.1990
12-28		15	.1800	7	.2010
	M6 x 1.00	5.00	.1969	7/32	.2188
1/4-20		7	.2010	1	.2280
1/4-28		3	.2130	15/64	.2340
	M7 x 1.00	6.00	.2362	F	.2570
5/16-18		F	.2570	L	.2900
5/16-24		I	.2720	M	.2950
	M8 x 1.25	6.70	.2638	7.40	.2913
	M8 x 1.00	7.00	.2756	19/64	.2969
3/8-16		5/16	.3125	S	.3480
3/8-24		Q	.3320	T	.3580
	M10 x 1.50	8.50	.3346	U	.3680
	M10 x 1.25	8.70	.3425	9.40	.3701
7/16-14		U	.3680	Y	.4040
7/16-20		25/64	.3906	Z	.4130
	M12 x 1.75	10.20	.4016	11.20	.4409
	M12 x 1.25	10.80	.4252	11.50	.4528
1/2-13		27/64	.4219	15/32	.4688
1/2-20		29/64	.4531	12.25	.4823
	M14 x 2.00	12.00	.4724	33/64	.5156
9/16-12		31/64	.4844	17/32	.5312
9/16-18		33/64	.5156	13.50	.5315
5/8-11		17/32	.5312	14.75	.5807
5/8-18		37/64	.5781	15.25	.6004
	M16 x 2.00	14.00	.5512	19/32	.5938
	M16 x 1.50	14.50	.5709	15.25	.6004
	M18 x 2.50	15.50	.6102	39/64	.6094
	M18 x 1.50	16.50	.6496	17.25	.6791
3/4-10		21/32	.6562	45/64	.7031
3/4-16		11/16	.6875	23/32	.7188
	M20 x 2.50	17.50	.6890		