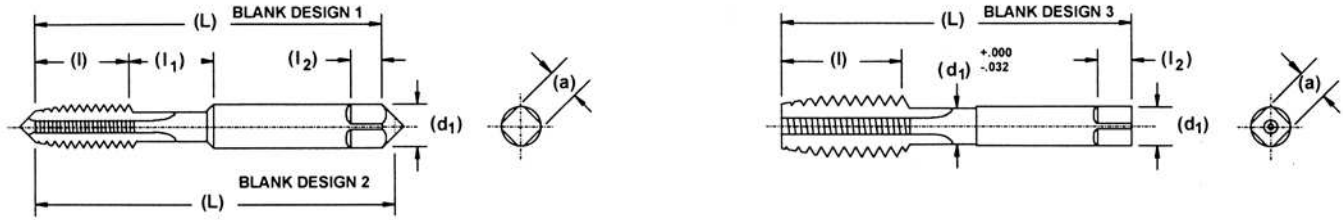


OPTIONAL NECK AND SHORTENED THREAD LENGTH

Tap Dimensions, Ground Thread

(Ref. USCTI Table 302-A)



Nominal Diameter Range - Inches		Machine Screw Size No.		Nominal Fractional Diameter Inches	Nominal Metric Diameter Millimeters, (in)	Blank Design No.	Tap Dimensions - Inches					
							Overall Length L	Thread Length l	Thread Length l ₁	Square Length l ₂	Shank Dia. d ₁	Size of Square a
Over 0.104	To (Inc.) 0.117	4	(0.1120)	-	-	1	1.88	0.31	0.25	0.19	0.1410	0.1100
0.117	0.130	5	(0.1250)	-	M3 (0.1181)	1	1.94	0.31	0.31	0.19	0.1410	0.1100
0.130	0.145	6	(0.1380)	-	M3.5 (0.1378)	1	2.00	0.38	0.31	0.19	0.1410	0.1100
0.145	0.171	8	(0.1640)	-	M4 (0.1575)	1	2.13	0.38	0.38	0.25	0.1680	0.1310
0.171	0.197	10	(0.1900)	-	M4.5 (0.1772), M5 (0.1969)	1	2.38	0.50	0.38	0.25	0.1940	0.1520
0.197	0.223	12	(0.2160)	-	-	1	2.38	0.50	0.44	0.28	0.2200	0.1650
0.223	0.260	-	1/4 (0.2500)	1/4 (0.2500)	M6 (0.2362)	2	2.50	0.63	0.38	0.31	0.2550	0.1910
0.260	0.323	-	5/16 (0.3125)	5/16 (0.3125)	M7 (0.2756), M8 (0.3150)	2	2.72	0.69	0.44	0.38	0.3180	0.2380
0.323	0.395	-	3/8 (0.3750)	3/8 (0.3750)	M10 (0.3937)	2	2.94	0.75	0.50	0.44	0.3810	0.2860
0.395	0.448	-	7/16 (0.4375)	7/16 (0.4375)	-	3	3.16	0.88	-	0.41	0.3230	0.2420
0.448	0.510	-	1/2 (0.5000)	1/2 (0.5000)	M12 (0.4724)	3	3.38	0.94	-	0.44	0.3670	0.2750
0.510	0.573	-	9/16 (0.5625)	9/16 (0.5625)	M14 (0.5512)	3	3.59	1.00	-	0.50	0.4290	0.3220
0.573	0.635	-	5/8 (0.6250)	5/8 (0.6250)	M16 (0.6299)	3	3.81	1.09	-	0.56	0.4800	0.3600
0.635	0.709	-	11/16 (0.6875)	11/16 (0.6875)	M18 (0.7087)	3	4.03	1.09	-	0.63	0.5420	0.4060
0.709	0.760	-	3/4 (0.7500)	3/4 (0.7500)	-	3	4.25	1.22	-	0.69	0.5900	0.4420
0.760	0.823	-	13/16 (0.8125)	13/16 (0.8125)	M20 (0.7874)	3	4.47	1.22	-	0.69	0.6520	0.4890
0.823	0.885	-	7/8 (0.8750)	7/8 (0.8750)	M22 (0.8661)	3	4.69	1.34	-	0.75	0.6970	0.5230
0.885	0.948	-	15/16 (0.9375)	15/16 (0.9375)	M24 (0.9449)	3	4.91	1.34	-	0.75	0.7600	0.5700
0.948	1.010	-	1 (1.0000)	1 (1.0000)	M25 (0.9843)	3	5.13	1.50	-	0.81	0.8000	0.6000

NOTES

1. Thread Length "l" is based on a length of 12 pitches of the UNC thread series.
2. Thread Length "l" is a minimum value and has no tolerance.
3. When Thread Length "l" is added to Neck Length "l₁," the total shall be no less than the minimum Table 302 Thread Length "l".
4. Unless otherwise specified, all tolerances are in accordance with Table 302.
5. For eccentricity tolerances, see Table 317.