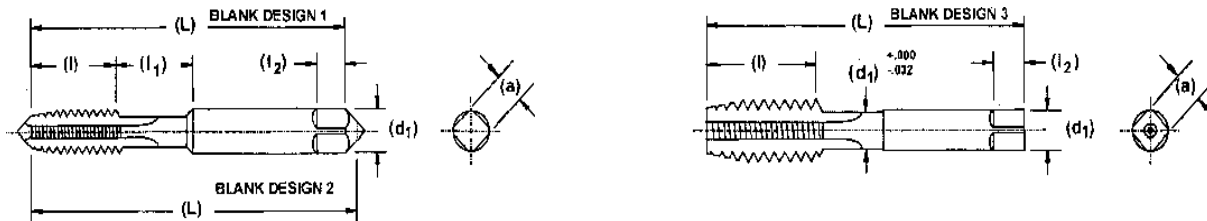


OPTIONAL NECK AND OPTIONAL SHORTENED THREAD LENGTH TAP DIMENSIONS, GROUND THREAD

(Ref. USCTI Table 302-A)



General Dimensions

Nominal Diameter Range-Inches		Mach. Screw Size No.	Nominal Fractional Diameter Inches	Nominal Metric Diameter Millimeters, (Inch)	Blank Design No.	Tap Dimensions - Inches					
Over	To (Inc.)					Overall Length L	Thread Length l	Neck Length l1	Square Length l2	Shank Diameter d1	Size of Sqaure a
.104	.117	4 (.1120)			1	1.88	.31	.25	0.19	1.141	0.11
.117	.130	5 (.1250)		M3 (.1181)	1	1.94	.31	.31	0.19	1.141	0.11
.130	.145	6 (.1380)		M3.5 (.1378)	1	2	.38	.31	0.19	1.141	0.11
.145	.171	8 (.1640)		M4 (.1575)	1	2.13	.38	.38	0.25	0.168	0.131
.171	.197	10 (.1900)		M4.5(.1772), M5(.1969)	1	2.38	.50	.38	0.25	0.194	0.152
.197	.223	12 (.2160)			1	2.38	.50	.44	0.28	0.22	0.165
.223	.260		1/4 (.2500)	M6 (.2362)	2	2.5	.63	.38	0.31	0.255	0.191
.260	.323		5/16 (.3125)	M7 (.2756), M8(.3150)	2	2.72	.69	.44	0.38	0.318	0.238
.323	.395		3/8 (.3750)	M10 (.3937)	2	2.94	.75	.50	0.44	0.381	0.286
.395	.448		7/16 (.4375)		3	3.16	.88	-	0.41	0.323	0.242
.448	.510		1/2 (.5000)	M12 (.4724)	3	3.38	.94	-	0.44	0.367	0.275
.510	.573		9/16 (.9375)	M14 (.5512)	3	3.59	1.00	-	0.5	0.429	0.322
.573	.635		5/8 (.6250)	M16 (.6299)	3	3.81	1.09	-	0.56	0.48	0.36
.635	.709		11/16 (.6875)	M18 (.7087)	3	4.03	1.09	-	0.63	0.542	0.406
.709	.760		3/4 (.7500)		3	4.25	1.22	-	0.69	0.59	0.442
.760	.823		13/16 (.8125)	M20 (.7874)	3	4.47	1.22	-	0.69	0.652	0.489
.823	.885		7/8 (.8750)	M22 (.8661)	3	4.69	1.34	-	0.75	0.697	0.523
.885	.948		15/16 (.9375)	M24 (.9449)	3	4.91	1.34	-	0.75	0.760	0.570
.948	1.010		1 (1.0000)	M25 (.9843)	3	5.13	1.50	-	0.81	0.800	0.600

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 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