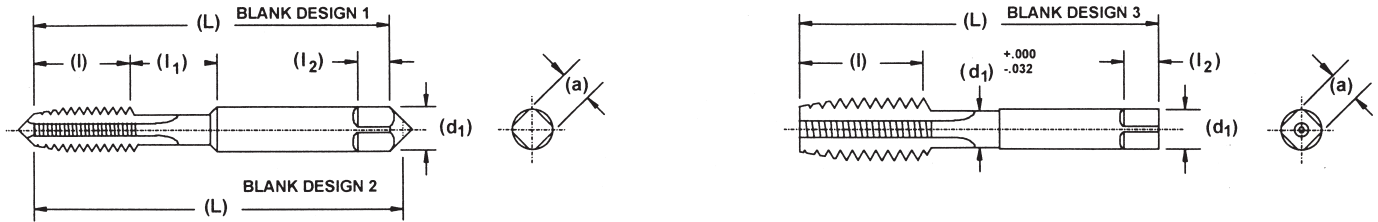


**OPTIONAL NECK AND OPTIONAL SHORTENED THREAD LENGTH
TAP DIMENSIONS, GROUND THREAD**
(Ref. USCTI Table 302-A)

General Dimensions

| Nominal Diameter Range-Inches | | Machine Screw Size No. | Nominal Fractional Diameter Inches | Nominal Metric Diameter Millimeters, (Inches) | Blank Design No. | Tap Dimensions---Inches | | | | | |
|----------------------------------|-------|---------------------------------|---|--|------------------------|-------------------------|-----------------------|----------------------|------------------------|-------------------------|------------------------|
| | | | | | | Overall Length L | Thread Length l | Neck Length l1 | Square Length l2 | Shank Diameter d1 | Size of Square a |
| .104 | .117 | 4 (.1120) | | | 1 | 1.88 | .31 | .25 | .19 | .1410 | .110 |
| .117 | .130 | 5 (.1250) | | M3 (.1181) | 1 | 1.94 | .31 | .31 | .19 | .1410 | .110 |
| .130 | .145 | 6 (.1380) | | M3.5 (.1378) | 1 | 2.00 | .38 | .31 | .19 | .1410 | .110 |
| .145 | .171 | 8 (.1640) | | M4 (.1575) | 1 | 2.13 | .38 | .38 | .25 | .1680 | .131 |
| .171 | .197 | 10 (.1900) | | M4.5 (.1772), M5 (.1969) | 1 | 2.38 | .50 | .38 | .25 | .1940 | .152 |
| .197 | .223 | 12 (.2160) | | | 1 | 2.38 | .50 | .44 | .28 | .2200 | .165 |
| .223 | .260 | | 1/4 (.2500) | M6 (.2362) | 2 | 2.50 | .63 | .38 | .31 | .2550 | .191 |
| .260 | .323 | | 5/16 (.3125) | M7 (.2756), M8 (.3150) | 2 | 2.72 | .69 | .44 | .38 | .3180 | .238 |
| .323 | .395 | | 3/8 (.3750) | M10 (.3937) | 2 | 2.94 | .75 | .50 | .44 | .3810 | .286 |
| .395 | .448 | | 7/16 (.4375) | | 3 | 3.16 | .88 | - | .41 | .3230 | .242 |
| .448 | .510 | | 1/2 (.5000) | M12 (.4724) | 3 | 3.38 | .94 | - | .44 | .3670 | .275 |
| .510 | .573 | | 9/16 (.5625) | M14 (.5512) | 3 | 3.59 | 1.00 | - | .50 | .4290 | .322 |
| .573 | .635 | | 5/8 (.6250) | M16 (.6299) | 3 | 3.81 | 1.09 | - | .56 | .4800 | .360 |
| .635 | .709 | | 11/16 (.6875) | M18 (.7087) | 3 | 4.03 | 1.09 | - | .63 | .5420 | .406 |
| .709 | .760 | | 3/4 (.7500) | | 3 | 4.25 | 1.22 | - | .69 | .5900 | .442 |
| .760 | .823 | | 13/16 (.8125) | M20 (.7874) | 3 | 4.47 | 1.22 | - | .69 | .6520 | .489 |
| .823 | .885 | | 7/8 (.8750) | M22 (.8661) | 3 | 4.69 | 1.34 | - | .75 | .6970 | .523 |
| .885 | .948 | | 15/16 (.9375) | M24 (.9449) | 3 | 4.91 | 1.34 | - | .75 | .7600 | .570 |
| .948 | 1.010 | | 1 (1.0000) | M25 (.9843) | 3 | 5.13 | 1.50 | - | .81 | .8000 | .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 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.