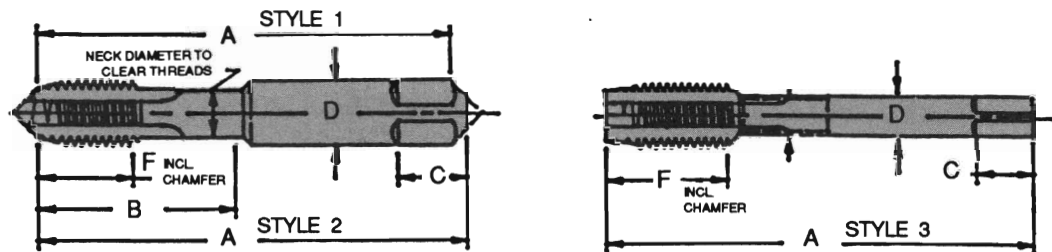


ENGINEERING DATA TAPS & DIES

Short Thread Length Taps

Table 302A



General Dimensions

Nominal Diameter Range - Inches		Machine Screw Size Number	Nominal Fractional Diameter (Inches)	Nominal Metric Diameter (Millimeters)	Style	Tap Dimensions - Inches					
						Length Overall A	*Length B	Square Length C	Shank Diameter D	Size of Square E	Thread **Length F
.104	.117	4	-----	-----	1	1-7/8	9/16	3/16	.141	.110	5/16
.117	.130	5	1/8	M3, M3.15	1	1-15/16	5/8	3/16	.141	.110	5/16
.130	.145	6	-----	M 3.5	1	2	11/16	3/16	.141	.110	3/8
.145	.171	8	5/32	M4	1	2-1/8	3/4	1/4	.168	.131	3/8
.171	.197	10	3/16	M4.5, M5	1	2-3/8	7/8	1/4	.194	.152	1/2
.197	.223	12	7/32	-----	1	2-3/8	15/16	9/32	.220	.165	1/2
.223	.260	14	1/4	M6, M6.3	2	2-1/2	1	5/16	.255	.191	5/8
.260	.323		5/16	M7, M8	2	2-23/32	1-1/8	3/8	.318	.238	11/16
.323	.395		3/8	M10	2	2-15/16	1-1/4	7/16	.381	.286	3/4
.395	.448		7/16	-----	3	3-5/32	-	13/32	.323	.242	7/8
.448	.510		1/2	M12, M12.5	3	3-3/8	-	7/16	.367	.275	15/16
.510	.573		9/16	M14	3	3-19/32	-	1/2	.429	.322	1
.573	.635		5/8	M16	3	3-13/16	-	9/16	.480	.360	1-3/32
.635	.709		11/16	M18	3	4-1/32	-	5/8	.542	.406	1-3/32
.709	.760		3/4	-----	3	4-1/4	-	11/16	.590	.442	1-7/32
.760	.823		13/16	M20	3	4-15/32	-	11/16	.652	.489	1-7/32
.823	.885		7/8	M22	3	4-11/16	-	3/4	.697	.523	1-11/32
.885	.948		15/16	M24	3	4-29/32	-	3/4	.760	.570	1-11/32
.948	1.010		1	M25	3	5-1/8	-	13/16	.800	.600	1-1/2

* "B" based on Table 302, column B and shall be no less than minimum Table 302 thread length.

***"F" based on the length of 12 pitches of the UNC series.

Notes: 1.) "F" is minimum value and has no tolerance.

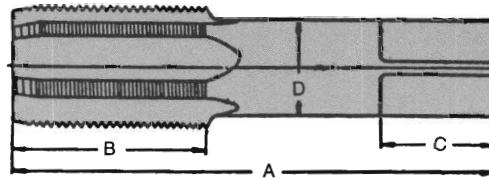
2.) Unless otherwise specified, all tolerances are in accordance with Table 302.

ENGINEERING DATA TAPS & DIES

Ground Thread Fine Pitch Tap Dimensions

Short Series, Ground Thread Dimensions

Table 303



Unless otherwise specified, special taps 1.010" to 1.510" diameter inclusive, have 14 or more threads per inch or 1.75 millimeter pitch and finer, and sizes over 1.510" diameter with 10 or more threads per inch, or 2.5 millimeter pitch and finer, will be made to the general dimensions show below.

General Dimensions

Nominal Diameter Range - Inches		Nominal Fractional Diameter Inches	Nominal Metric Diameter Millimeters	Tap Dimensions - Inches				
Over	To (Incl.)			Overall Length A	Thread Length B	Square Length C	Shank Diameter D	Size of Square E
1.010	1.073	1-1/16	M27	4	1-1/2	7/8	.896	.672
1.073	1.135	1-1/8		4	1-1/2	7/8	.896	.672
1.135	1.198	1-3/16	M30	4	1-1/2	1	1.021	.766
1.198	1.260	1-1/4		4	1-1/2	1	1.021	.766
1.260	1.323	1-5/16	M33	4	1-1/2	1	1.108	.831
1.323	1.385	1-3/8		4	1-1/2	1	1.108	.831
1.385	1.448	1-7/16	M36	4	1-1/2	1	1.233	.925
1.448	1.510	1-1/2		4	1-1/2	1	1.233	.925
1.510	1.635	1-5/8	M39	5	2	1-1/8	1.305	.979
1.635	1.760	1-3/4	M42	5	2	1-1/4	1.430	1.072
1.760	1.885	1-7/8		5	2	1-1/4	1.519	1.139
1.885	2.010	2"	M48	5	2	1-3/8	1.644	1.233
2.010	2.135	2-1/8		5-1/4	2	1-3/8	1.769	1.327
2.135	2.260	2-1/4	M56	5-1/4	2	1-7/16	1.894	1.420
2.260	2.385	2-3/8		5-1/4	2	1-7/16	2.019	1.514
2.385	2.510	2-1/2		5-1/4	2	1-1/2	2.100	1.575
2.510	2.635	2-5/8	M64	5-1/2	2	1-1/2	2.100	1.575
2.635	2.760	2-3/4		5-1/2	2	1-1/2	2.100	1.575
2.760	2.885	2-7/8	M72	5-1/2	2	1-1/2	2.100	1.575
2.885	3.010	3"		5-1/2	2	1-1/2	2.100	1.575
3.010	3.135	3-1/8		5-3/4	2	1-1/2	2.100	1.575
3.135	3.260	3-1/4	M80	5-3/4	2	1-1/2	2.100	1.575
3.260	3.385	3-3/8		5-3/4	2	1-1/2	2.100	1.575
3.385	3.510	3-1/2		5-3/4	2	1-1/2	2.100	1.575
3.510	3.635	3-5/8	M90	6	2	1-3/4	2.100	1.575
3.635	3.760	3-3/4		6	2	1-3/4	2.100	1.575
3.760	3.885	3-7/8		6	2	1-3/4	2.100	1.575
3.885	4.010	4"	M100	6	2	1-3/4	2.100	1.575

For tolerances see Table 302.