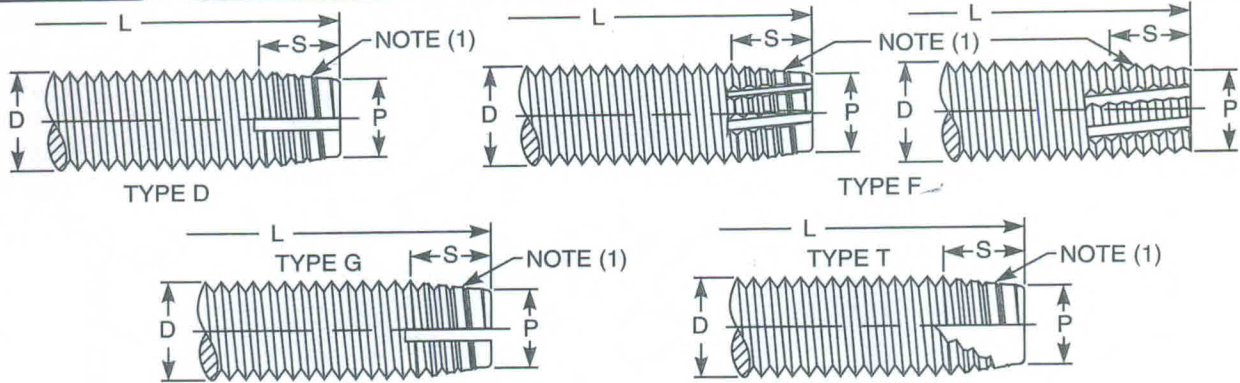


THREAD CUTTING TAPPING SCREWS — TYPES D, F, G, AND T



**Table 9 Dimensions of Threads and Points for Types D, F, G, and T
Thread Cutting Tapping Screws**

Nominal Size or Basic Screw Diameter	Threads per Inch	D		P	S				L			
		Major Diameter		Point Diameter	Point Taper Length				Determinant Lengths for Point Taper		Minimum Practical Nominal Screw Lengths	
		Max	Min	Ref	For Short Screws		For Long Screws		90° Heads	Csk Heads	90° Heads	Csk Heads
					Max	Min	Max	Min				
2 0.0860	56	0.0860	0.0813	0.068	0.062	0.045	0.080	0.062	5/32	3/16	5/32	3/16
2 0.0860	64	0.0860	0.0816	0.070	0.055	0.039	0.070	0.055	1/8	3/16	1/8	5/32
3 0.0990	48	0.0990	0.0938	0.078	0.073	0.052	0.094	0.073	3/16	7/32	5/32	7/32
3 0.0990	56	0.0990	0.0942	0.081	0.062	0.045	0.080	0.062	5/32	3/16	5/32	3/16
4 0.1120	40	0.1120	0.1061	0.087	0.088	0.062	0.112	0.088	7/32	1/4	3/16	1/4
4 0.1120	48	0.1120	0.1068	0.091	0.073	0.052	0.094	0.073	3/16	7/32	5/32	7/32
5 0.1250	40	0.1250	0.1191	0.100	0.088	0.062	0.112	0.088	7/32	9/32	3/16	1/4
5 0.1250	44	0.1250	0.1195	0.102	0.080	0.057	0.102	0.080	3/16	1/4	3/16	1/4
6 0.1380	32	0.1380	0.1312	0.107	0.109	0.078	0.141	0.109	1/4	5/16	1/4	5/16
6 0.1380	40	0.1380	0.1321	0.113	0.088	0.062	0.112	0.088	7/32	9/32	3/16	1/4
8 0.1640	32	0.1640	0.1571	0.132	0.109	0.078	0.141	0.109	1/4	11/32	1/4	5/16
8 0.1640	36	0.1640	0.1577	0.136	0.097	0.069	0.125	0.097	7/32	5/16	7/32	9/32
10 0.1900	24	0.1900	0.1818	0.148	0.146	0.104	0.188	0.146	11/32	7/16	5/16	13/32
10 0.1900	32	0.1900	0.1831	0.158	0.109	0.078	0.141	0.109	1/4	11/32	1/4	5/16
12 0.2160	24	0.2160	0.2078	0.174	0.146	0.104	0.188	0.146	11/32	7/16	5/16	13/32
12 0.2160	28	0.2160	0.2085	0.180	0.125	0.089	0.161	0.125	5/16	13/32	9/32	3/8
1/4 0.2500	20	0.2500	0.2408	0.200	0.175	0.125	0.225	0.175	13/32	17/32	3/8	1/2
1/4 0.2500	28	0.2500	0.2425	0.214	0.125	0.089	0.161	0.125	5/16	13/32	9/32	3/8
5/16 0.3125	18	0.3125	0.3026	0.257	0.194	0.139	0.250	0.194	15/32	19/32	7/16	9/16
5/16 0.3125	24	0.3125	0.3042	0.271	0.146	0.104	0.188	0.146	11/32	15/32	5/16	15/32
3/8 0.3750	16	0.3750	0.3643	0.312	0.219	0.156	0.281	0.219	1/2	11/16	15/32	5/8
3/8 0.3750	24	0.3750	0.3667	0.333	0.146	0.104	0.188	0.146	11/32	1/2	5/16	1/2
7/16 0.4375	14	0.4375	0.4258	0.366	0.250	0.179	0.321	0.250	19/32	3/4	9/16	23/32
7/16 0.4375	20	0.4375	0.4281	0.387	0.175	0.125	0.225	0.175	13/32	9/16	3/8	17/32
1/2 0.5000	13	0.5000	0.4876	0.423	0.269	0.192	0.346	0.269	5/8	25/32	19/32	3/4
1/2 0.5000	20	0.5000	0.4906	0.450	0.175	0.125	0.225	0.175	13/32	9/16	3/8	17/32
See Notes 2					3	3			3			

NOTES:

- (1) Points of screws shall be tapered and fluted or slotted as illustrated above for the respective types. The flute on Type T screws shall have an included angle of 90° to 95° and the thread cutting edge located above the axis of screw. Tapered threads shall have unfinished crests, and the flutes or slots shall extend through the first full thread beyond taper except for Type F screws on which tapered threads may be complete at manufacturer's option and flutes may be one pitch short of the first full form thread. Other details of taper and flute design shall be optional with the manufacturer, provided the screws meet the specified performance requirements.
- (2) Where specifying nominal size in decimals, zeros preceding decimal and in the fourth decimal place shall be omitted.
- (3) Screws of these nominal lengths and shorter shall have point taper lengths specified for short screws. Longer lengths shall have point taper lengths specified for long screws.
- (4) For additional requirements, refer to Introductory Notes and General Data, page H-13 and page H-18.