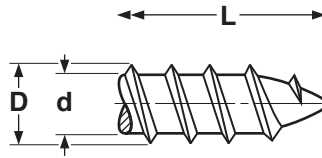


SELF- TAPPING SCREWS

Type A **THREAD FORMING**



THREADS FOR SELF-TAPPING SCREWS TYPE A									ASME B18.6.3-2013
Nominal Size or Basic Screw Diameter	Threads Per Inch	D		d		L		Minimum Torsional Strength, lb.-in. (STEEL SCREWS ONLY)	
		Major Diameter		Minor Diameter		These Lengths or Shorter Have AB Threads			
		Max	Min	Max	Min	90° Heads	Csk Heads		
5	0.1250	20	.130	.126	.095	.090	3/16	1/4	18
6	0.1380	18	.141	.136	.102	.096	1/4	5/16	24
7	0.1510	16	.158	.152	.114	.108	5/16	3/8	30
8	0.1640	15	.168	.162	.123	.116	3/8	7/16	39
• 9	0.1770	14	.181	.170	.130	.120	-	-	47
10	0.1900	12	.194	.188	.133	.126	3/8	1/2	48
12	0.2160	11	.221	.215	.162	.155	7/16	9/16	83
14	0.2420	10	.254	.248	.185	.178	1/2	5/8	125
20	0.3200	9	.333	.327	.234	.226	11/16	13/16	250
24	0.3720	9	.390	.383	.291	.282	3/4	1	492
• 1/2"	0.5000	6	.515	.482	.374	.354	-	-	-
Tolerance on Length			Up to 1" Incl.: ±0.03				Over 1": ±0.05		

• Dimensions for #9 and 1/2" nominal diameter are independent of the ASME B18.6.3 standard.

Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point.		
Applications/ Advantages	For self starting in thin (.015-.050 thick) metal or resin-filled plywood.	For self starting in thin stainless sheet when corrosion resistance is required.	For self-starting in thin stainless sheet when a harder material is preferred.
Material	Steel AISI 1016 - 1024 or equivalent steel	18-8 Stainless Parts shall conform to the following chemical composition: Carbon: 0.08-0.12%; Manganese: 2.0% max; Phosphorus: .045% max; Sulfur: 0.03% max; Chromium: 15-19%; Nickel: 8-13%	410 Stainless Parts shall conform to the following chemical composition: Carbon: 0.15% max; Manganese: 1.0% max; Phosphorus: .040% max; Sulfur: 0.030% max; Chromium: 11.5-13.5%
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.	-	Shall be annealed by heating to 1900 ± 50°F to obtain maximum corrosion resistance and minimum permeability. Screws are held for a sufficient time at temperature, then cooled at a rate sufficient to prevent precipitation of the carbide.
Surface Hardness	Steel: Rockwell C45 minimum	-	-
Case Depth (Steel only)	No. 4 thru 6 diameter: .002 - .007 No. 8 thru 12 diameter: .004 - .009 1/4" and larger: .005 - .011	-	-
Hardness	Steel: Core: Rockwell C28 - 38 (after tempering)	Rockwell B90 - C20 (approx.)	Rockwell C36 - 43
Plating	See Appendix-A for plating information.		

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