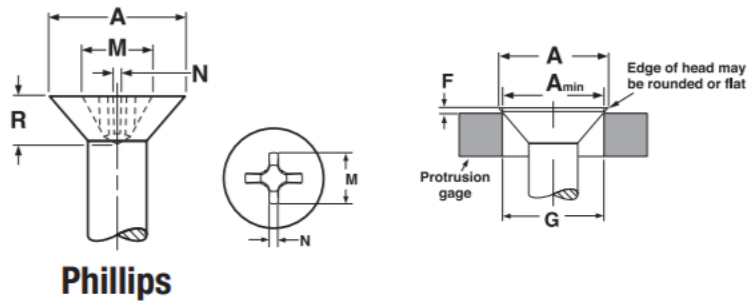


# Metallics

An **AMERICAN** Source For Premier  
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## FLAT HEAD PHILLIPS TAPPING SCREWS – STEEL ZINC & STAINLESS STEEL

The following Specification Sheet applies to all **Steel Zinc and Stainless Steel Flat Head Phillips Tapping Screws** in our **JTSF** series of screws.



**Phillips**

FLAT HEADS FOR SELF-TAPPING SCREWS																	ASME B18.6.4-1998	
Nominal Size	These Lengths or Shorter are Undercut		A		H		J		T		M	R	N	F		G	Phillips Driver Size	
			Head Dimensions				Slot Dimensions				Phillips Dimensions			Protrusion Above Gaging Diameter		Gaging Diameter		
			Diameter		Height		Width		Depth		Diam.	Depth	Width	Max	Min			
	Types A & AB	Other Types	Max	Min	Max	Min	Max	Min	Max	Min	Ref	Ref	Ref	Max	Min			
0	3/16	1/8	.112	.096	.035	.026	.023	.016	.015	.010	.062	.035	.014	.026	.016	.078	0	
1	3/16	5/32	.137	.120	.043	.033	.026	.019	.019	.012	.070	.043	.015	.028	.016	.101	0	
2	3/16	3/16	.162	.144	.051	.040	.031	.023	.023	.015	.096	.055	.017	.029	.017	.124	1	
3	7/32	7/32	.187	.167	.061	.047	.035	.027	.027	.017	.100	.060	.018	.031	.018	.148	1	
4	1/4	1/4	.212	.191	.067	.055	.039	.031	.030	.020	.122	.081	.018	.032	.019	.172	1	
5	1/4	1/4	.237	.215	.075	.062	.043	.035	.034	.022	.148	.074	.027	.034	.020	.196	2	
6	5/16	5/16	.262	.238	.083	.069	.048	.039	.038	.024	.168	.094	.029	.036	.021	.220	2	
7	3/8	3/8	.287	.262	.091	.076	.048	.039	.041	.027	.176	.102	.030	.037	.022	.243	2	
8	7/16	7/16	.312	.285	.100	.084	.054	.045	.045	.029	.182	.110	.030	.039	.023	.267	2	
9*	7/16	7/16	.358	.316	.108	.091	-	-	-	-	.191	.118	.031	-	-	-	2	
10	1/2	1/2	.362	.333	.116	.098	.060	.050	.053	.034	.198	.124	.032	.042	.025	.313	2	
12	9/16	9/16	.412	.380	.132	.112	.067	.056	.060	.039	.262	.144	.035	.045	.027	.362	3	
14	5/8	-	.462	.427	.148	.126	.075	.064	.068	.044	.276	.160	.036	.049	.029	.410	3	
1/4	5/8	5/8	.477	.442	.153	.131	.075	.064	.070	.046	.276	.160	.036	.050	.029	.424	3	
5/16	13/16	5/8	.597	.556	.191	.165	.084	.072	.088	.058	.358	.205	.061	.057	.034	.539	4	
3/8	-	5/8	.717	.670	.230	.200	.094	.081	.106	.070	.386	.234	.065	.065	.039	.653	4	
1/2	-	3/4	.815	.765	.223	.186	.106	.091	.103	.065	.418	.265	.069	.081	.049	.739	4	

\* Dimensions for #9 diameter are independent of ASME B18.6.4

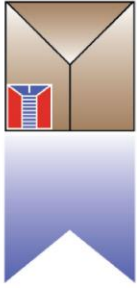
### Metallics

229 Cross Street  
Bristol, CT 06010

[www.metallics.us](http://www.metallics.us)

Phone: 860 589-4186 Toll Free: 800 243-8272

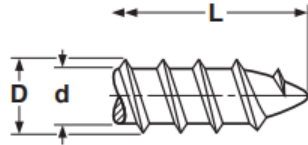
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## THREAD DIMENSIONS



THREADS FOR SELF-TAPPING SCREWS TYPE A									ASME B18.6.4
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	
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	3/8	7/16	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
Tolerance on Length			Up to 1" Incl.: ±0.03			Over 1": ±0.05			
* Dimensions for #9 diameter are independent of ASME B18.6.4									

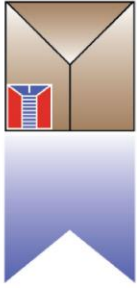
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<b>Description</b>	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point.
<b>Applications/ Advantages</b>	For self starting in thin (.015-.050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used in applications which require general atmospheric corrosion resistance. Fastening stainless steel parts to aluminum or steel can cause a type of corrosion known as a galvanic couple in some environments.
<b>Material</b>	<b>Steel:</b> AISI 1016 - 1024 or equivalent steel. <b>Stainless:</b> Austenitic 18-8 stainless steel
<b>Heat Treatment (Steel only)</b>	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
<b>Surface Hardness</b>	Steel: Rockwell C45 minimum
<b>Case Depth (Steel only)</b>	No. 6 diameter: .002 - .007 No. 8 thru 12 diameter: .004 - .009 1/4" and larger: .005 - .011
<b>Core Hardness (after tempering)</b>	<b>Steel:</b> Rockwell C28 - 38
<b>Plating</b>	See Appendix-A for information on plating of steel screws.

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