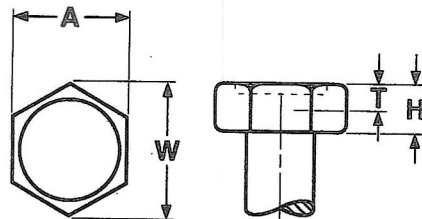
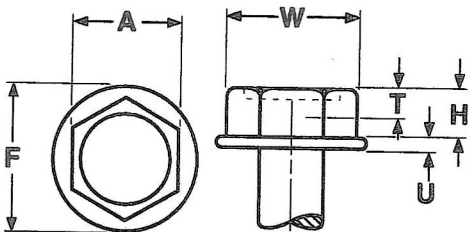
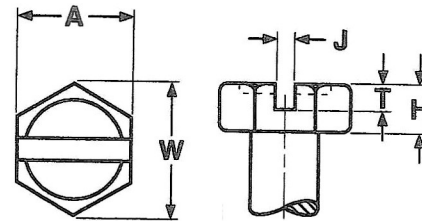
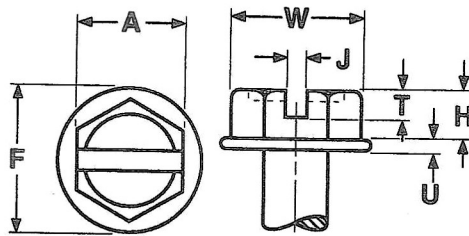


Hex and Hex Washer Heads

Head Dimensions

Self-Tapping Screws



HEX & HEX WASHER HEADS FOR SELF-TAPPING & SELF-DRILLING SCREWS

ASME B18.6.4-1998*

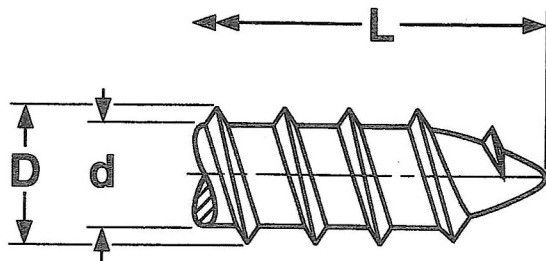
Nominal Size	A		W	H		F		U		J		T	
	Width Across Flats		Width Across Corners	Height of Head		Diameter of Washer		Thickness of Washer		Width of Slot		Depth of Slot	
	Max	Min	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
4	.188	.181	.202	.060	.049	.243	.225	.019	.011	.039	.031	.036	.025
6	.250	.244	.272	.093	.080	.328	.302	.025	.015	.048	.039	.046	.033
7	.250	.244	.272	.093	.080	.328	.302	.029	.017	.048	.039	.054	.040
8	.250	.244	.272	.110	.096	.348	.322	.031	.019	.054	.045	.066	.052
10	.312	.305	.340	.120	.105	.414	.384	.031	.019	.060	.050	.072	.057
12	.312	.305	.340	.155	.139	.432	.398	.039	.022	.067	.056	.093	.077
14	.375	.367	.409	.190	.172	.520	.480	.050	.030	.075	.064	.101	.083
1/4	.375	.367	.409	.190	.172	.520	.480	.050	.030	.075	.064	.101	.083
5/16	.500	.489	.545	.230	.208	.676	.624	.055	.035	.084	.072	.122	.100
3/8	.562	.551	.614	.295	.270	.780	.720	.063	.037	.094	.081	.156	.131
1/2*	.750	.735	.820	.400	.367	1.040	.960	.085	.050	.106	.091	.190	.165

*Slot dimensions for 1/2-inch diameter hex washer head tapping screws are independent of ASME B18.6.4.

Type-A

Thread Forming

Self-Tapping Screws



THREADS FOR SELF-TAPPING SCREWS TYPE A

ANSI 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
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		

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. 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.
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: Austenitic 18-8 stainless steel
Heat Treatment (Steel only)	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
Surface Hardness	Steel: Rockwell C45 minimum
Case Depth (Steel only)	No. 6 diameter: .002 - .007 No. 8 thru 12 diameter: .004 - .009 1/4" and larger: .005 - .011
Core Hardness (after tempering)	Steel: Rockwell C28 - 38
Plating	See Appendix-A for information on plating of steel screws.