

Metallics

An **AMERICAN** Source For Premier
and Innovative Fasteners and Anchors

HEX HEAD QUADRIE TAPPING SCREWS – STEEL ZINC

The following Specification Sheet applies to all **Hex Head QuaDrive Tapping Screws – Steel Zinc** in our **QDS** series of screws.

Four drives in one head



Hex



Slotted



Phillips



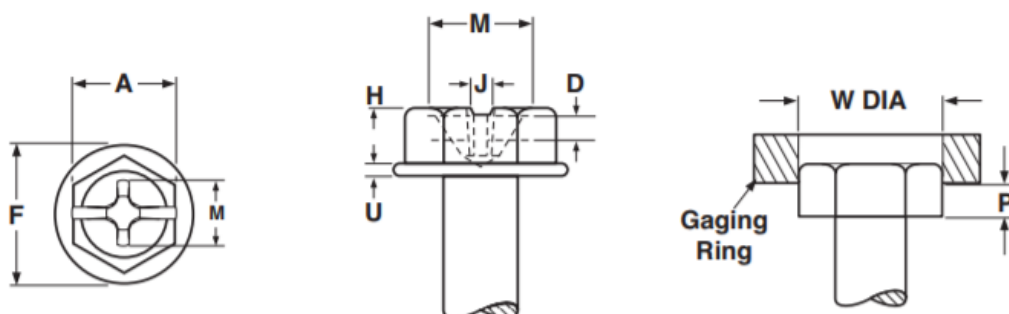
Square
Drive

Introduced in 1999

MADE IN USA



Manufactured by
Avanti Screw, Inc.,
A Metallics
Affiliate



COMBINATION HEX WASHER HEADS																ASME B18.6.3- 2013	
Nom Size	A		H		F		U		J		D		P	M	Recess Penetrating Gaging Depth		Phillips Driver Size
	Width Across Flats		Head Height		Washer Diameter		Washer Thickness		Slot Width		Slot Depth		Protrusion Beyond Gaging Ring	Recess Diameter			
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Min	Ref	Max	Min	
6	.250	.244	.093	.080	.328	.302	.025	.015	.048	.039	.053	.033	.048	.148	.089	.064	2
8	.250	.244	.110	.096	.348	.322	.031	.019	.054	.045	.074	.052	.058	.168	.115	.090	2
10	.312	.305	.120	.105	.414	.384	.031	.019	.060	.050	.080	.057	.063	.178	.127	.102	2
12	.312	.305	.155	.139	.432	.398	.039	.022	.067	.056	.103	.077	.083	.247	.152	.127	3
1/4	.375	.367	.190	.172	.520	.480	.050	.030	.075	.064	.111	.083	.103	.277	.186	.161	3

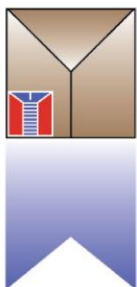
Metallics

229 Cross Street
Bristol, CT 06010

www.metallics.us

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

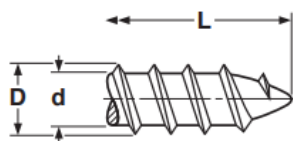
Fax: 860 584-1008 Toll Free Fax: 800 831-9358



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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										

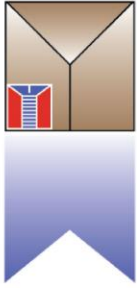
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Description	A thread forming tapping screw with wider spaced threads than a Type-AB and a gimlet point.
Applications/ Advantages	For self starting in thin (.015-.050 thick) metal or resin-filled plywood. 18-8 Stainless steel tapping screws may be used 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.

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