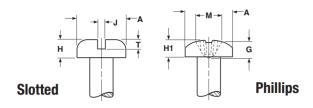


PAN HEAD MACHINE SCREWS - STEEL AND STAINLESS STEEL

The following Specification Sheet applies to all **Steel and Stainless Steel Pan Head Machine Screws** including those in our **SPM, PMP, SPMP, and SPS series** of screws.



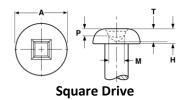
PAN HEADS FOR MACHINE SCREWS AND SEMS ASME B18.6.3-2010														
	Α		ŀ	1	H1		J		Т		M G		ì	
Nominal	Head Diameter		Height of Head								Dimensions of Recess		Phillips	
Nominal Size			Slotted		Recessed		Width of Slot		Depth of Slot		Diameter Recess Penetrat Gaging Depth			Driver Size
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Ref	Max	Min	
4	.219	.205	.068	.058	.080	.070	.039	.031	.040	.030	.115	.071	.053	1
6	.270	.256	.082	.072	.097	.087	.048	.039	.050	.037	.159	.080	.055	2
8	.322	.306	.096	.085	.115	.105	.054	.045	.058	.045	.175	.097	.071	2
10	.373	.357	.110	.099	.133	.122	.060	.050	.068	.053	.192	.113	.089	2
12	.425	.407	.125	.112	.151	.139	.067	.056	.077	.061	.252	.124	.098	3
1/4	.492	.473	.144	.130	.175	.162	.075	.064	.087	.070	.274	.144	.118	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





SQUARE SOCKET PAN HEADS B18.6										
Nominal Size or Basic Screw Diameter		,	4	н		М	т	Р		
		Head Diameter		Head Height		Recess Square	Recess Depth	Penetration Gaging Depth		Driver Size
		Max	Min	Max	Min	Ref	Ref	Max	Min	
8	.1640	.322	.306	.120	.110	.112	.127	.075	.060	2

Description	A straight shank fastener with external threads designed to go through	h a hole or nut that is pre-tapp	ed to form a mating threa	ad for the screw.						
	Machine screws form a fastening superior in strength to spaced thread screws.									
Applications/ Advantages	Steel	Stainless								
	Steel Zinc is the most common and most popular variety of steel machine screws Steel Zinc yellow screws are popular in electronics applications.	18-8 Stainless steel machine screws are used in applications which require general atmospheric corrosion resistance, in food processing machinery and refrigeration equipment. Stainless is also superior to steel in withstanding some elevation in application operating temperature while maintaining its strength.								
	Steel Zinc Black and Black Oxide screws are used to blend in with black-colored components.	316 Stainless steel offers superior corrosion resistance to 18-8 and is superior at maintaining its strength at high temperatures. 410 Stainless steel is recommended in applications where greater tensile strength is needed such as control mechanisms or valves under high stress. 410 is not as corrosion resistant as are 18-8 or 316 stainless								
Material	AISI 1006 - 1022 or equivalent steel.	SAE 18-8 stainless steel	316 stainless steel	410 stainless steel						
Hardness	Rockwell B70 - B100.	Rockwell B85 - B95 (approximate)*	Rockwell B85 - B95 (approximate)*	Rockwell C34 (approximate)						
	60,000 psi. minimum.	80,000 psi. minimum (100,000 psi after cold working)*	85,000 - 140,000 psi.	180,000 psi.						
Tensile Strength	Steel machine screws which have a nominal diameter smaller than #4 are not subject to tensile testing. No. 4 and No. 5 machine screws which are shorter than 1/2" are not subject to tensile testing. Steel machine screws of diameters No. 6 to 1/2" inclusive, which are shorter than either 1/2" or 3D (where D is the nominal screw size in inches) are not subject to tensile testing. Such steel machine screws of a size to be tested shall meet the tensile load requirements listed above. Tensile strength values for stainless screws are offered as approximations only; there is no single standard for the performance requirements of stainless machine screws.									

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