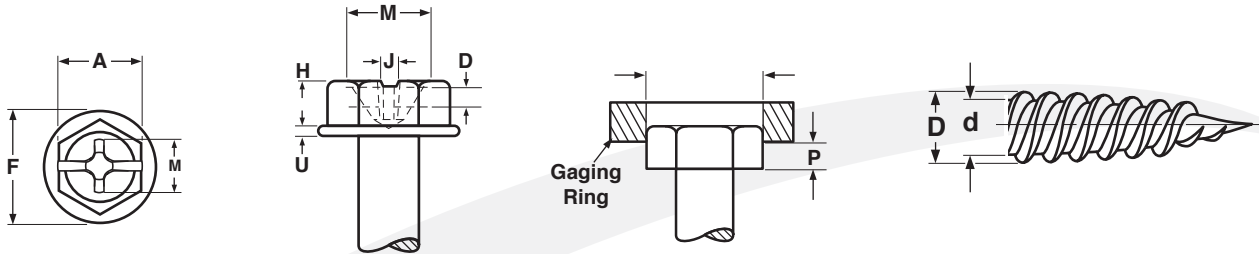


**SELF-PIERCING** Combo Phillips/Slotted Hex Washer



Head dimensions of self-piercing screws differ from those of standard tapping screws.

COMBINATION DRIVE HEX WASHER HEAD SELF-PIERCING SCREWS																					
Size	A		H		F		U		M	P		J		T		D		d		Phillips Driver Size	
	Width Across Flats		Head Height		Washer Diameter		Washer Thickness		Recess Diam.	Recess Penetration Gaging Depth		Slot Width		Slot Depth		Major Diameter		Minor Diameter			
	Max	Min	Max	Min	Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min		
10-12	.250	.244	.110	.096	.414	.384	.031	.019	.168	.115	.090	.054	.045	.074	.052	.194	.188	.133	.126	2	
Tolerance on Length									±0.05												

NOTE: There is no single standard for self-piercing screw dimensions. These values are offered as a guide; deviations from these specifications may occur.

<b>Description</b>	A hex washer head thread forming tapping screw with a single lead thread rolled to the tip of an extra sharp point, and a second thread spaced 180° apart. The head can accommodate either a slotted or a cross-recessed driver.
<b>Applications/ Advantages</b>	May be used in thin metal (less than .050 thick). Eliminates need for pre-drilled or pre-punched holes. Undercut area beneath the head allows greater length of thread engagement. Twin lead threads help to reduce driving torque.
<b>Material</b>	AISI 1018 - 1022 or equivalent steel
<b>Heat Treatment</b>	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
<b>Surface Hardness</b>	Rockwell C45 minimum
<b>Case Depth</b>	No. 7 thru 12 diameter: .004 - .009
<b>Core Hardness (after tempering)</b>	Rockwell C28 - 38
<b>Plating</b>	See Appendix-A for plating information.