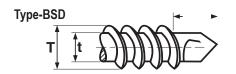
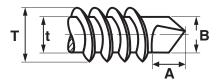
Self-Tapping Scews Self-Drilling

Type-BSD Type-CSD





5/16 & 3/8 Diameter #3 Point



	Self-Drilling Screws, Type BSD *SAE J78- 1998												
			Т		t		Р		Minimum	_			
Nominal Size or Basic Screw Diameter		Threads Per Inch	Major Diameter		Minor Diameter		Protrusion Allowance		Minimum Practical Nominal Screw Lengths, Formed Points				Minimum Tor- sional Strength, lb in. (STEEL
			Max	Min	Max	Min	#2 Pt.	#3 Pt.	90° Head, #2 Pt	Csk Head, #2 Pt	90° Head, #3 Pt	Csk Head, #3 Pt	SCREWS ONLY)
4	.1120	24	.114	.110	.086	.082	.163	-	5/16	3/8	-	-	14
6	.1380	20	.139	.135	.104	.099	.190	.220	5/16	3/8	3/8	7/16	24
7*	.1510	19	.153	.146	.113	.109	.137	.157	5/16	3/8	3/8	7/16	-
8	.1640	18	.166	.161	.122	.116	.211	.251	3/8	7/16	7/16	1/2	42
10	.1900	16	.189	.183	.141	.135	.235	.300	7/16	1/2	1/2	9/16	61
12	.2160	14	.215	.209	.164	.157	.283	.353	1/2	5/8	1/2	5/8	92
1/4	.2500	14	.246	.240	.192	.185	.318	.393	1/2	5/8	1/2	5/8	150

^{*}SAE J78 does not include Specifications for #7 diameter drill sc rews.

Coarse Thread Self Drilling Screws - 5/16 & 3/8 Diameters, #3 Point										
Nominal Size or Basic Screw Diameter			Т		t		Α		В	
		ic Threads Per	Major D	iameter	Minor Diameter		Drill Point Length		Drill Point Diameter	
00.00.	Ociew Diameter		Max	Min	Max	Min	Max	Min	Max	Min
5/16	.3125	12	.315	.307	.272	.263	.421	.361	.270	.265
3/8	.3750	12	.380	.370	.308	.298	.354	.314	.338	.330

	Steel	Stainless						
Description	Type BSD: A tapping screw with spaced threads and a drill point which drills its own hole. Type CSD: A wafer head thread forming screw with machine screw thread pitch and a drill point which drills its own hole. Both types allow the screw to form mating threads and produce a complete fastening system in a single operation.							
Applications/ Advantages	Type BSD: May be used to attach plywood, soft woods or composition board to metal, or attach metal to metal. Type CSD: The finer thread pitch reduces friction and driving torques. Type-CSD screws are normally used with thicker materials. All self-drilling screws offer economical benefits: reduces labor and tooling costs; reduces or eliminates drill bits and taps.	Type BSD: The 18-8 stainless drill screw offers superior corrosion resistance while the 410 stainless screw will drill through harder material than the 18-8. The hardness of the material to be drilled should be a minimum of 10-20 Rockwell hardness points. Minimum torques are the same for stainless and steel self-drill screws. Drill time is 2.5 seconds for a 1mm thick plate. Type CSD: The finer thread pitch reduces friction and driving torques.						
Material	AISI 1016 - 1024 or equivalent steel	410 or 18-8 stainless steel						
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 625°F minimum.	410 stainless screws shall be hardened and tempered by heating to 1800°-1900°F sufficient for austenitization, held for at least 1/2 hour and rapid air or oil-quenched then reheating to 500°-600°F for at least 1 hour and air cooled to provide the specified hardness.						
Case Hardness	Rockwell C52 -58	410 SS: Rockwell C55 minimum						
Case Depth	No. 4 and 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" diameter and larger: .005011							
Core Hardness	Rockwell C32 - 40 (after tempering)	410 SS: Rockwell C38 - 42 (after tempering) 18-8 SS: Rockwell B90 - C25 (approx.)						
Plating		Stainless drill screws are usually supplied plain.						