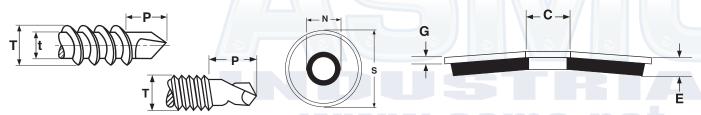
## **SELF-DRILLING**

## With Neo-EPDM Washers



	SELF-DRILLING SCREWS, TYPE BSD SAE J78-2013													
Nomir	nal Size	Threads Per Inch	T Major Diameter		t Minor Diameter		P Protrusion Allowance		Minimum Practical Nominal Screw Lengths, Formed Points				Minimum Torsional Strength, lb in.	
	ic Screw													
	neter		Max	Min	Max	Min	#2 Pt.	#3 Pt.	90° Head, #2 Pt	Csk Head, #2 Pt	90° Head, #3 Pt	Csk Head, #3 Pt	(STEEL SCREWS ONLY)	
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	
12	.2160	24	.216	.2094	-	-	.223	.293	1/2	5/8	1/2	5/8	100	
1/4	.2500	14	.246	.240	.192	.185	.318	.393	1/2	5/8	1/2	5/8	150	

Coarse Thread Self Drilling Screws - 5/16 & 3/8 Diameters, #3 Point										
//\\\\ _\\.		Threads			/ //	t	Α		В	
	Nominal Size or Basic Screw Diameter		Major Diameter		Minor Diameter		Drill Point Length		Drill Point 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

NEO-EPDM WASHERS USED WITH SELF PIERCING & SELF DRILLING SCREWS									
For Use with	,	S		N		G	E		
Screw of this Nominal		iameter of Section	11101010	ameter of Section	Thickness of	Steel Section	Total Thickness (EPDM & Steel)		
Diameter	Max	Min	Max	Min	Max	Min	Max	Min	
8	.507	.491	.212	.196	.039	.023	.125	.093	
10	.507	.491	.212	.196	.039	.023	.125	.093	
12	.558	.542	.243	.227	.039	.023	.125	.093	
14 or 1/4	.617	.601	.275	.259	.039	.023	.125	.093	
5/16	.750	.720	.345	.315	.040	.032	.116	.086	
3/8	.750	.720	.449	.419	.040	.032	.110	.080	

Description	A hex washer head tapping screw with spaced threads and a drill point which drills its own hole. Beneath the head is a thin conically-shaped circ washer, bonded to a similarly shaped rubber-like piece which as a slightly smaller outside and inside diameter. When these washers are assemb side down) to self-piercing or self-drilling screws, those fasteners become "sealing screws".								
Applications/ Advantages	When properly assembled, this washer: (a) offers protection against leakage; (b) provides load bearing qualities superior to that of a regular flat washer; (c) reduces the chance of the fastening becoming loose due to vibration; (d) minimizes damage to the mating surface caused by contact with a steel washer. Sealing screws may be used to attach roofing or metal walls to steel frames. Consult a self-drilling screw selection chart for the correct size.								
Material	Screw: AISI 1016-1024 or equivalent steel; Steel Section of washer. 20 gauge steel; Elastic Section of washer. Style 40 EPDM sheet								
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 625°F minimum.								
Case Hardness	Screw: Rockwell C52 -58 Washer. EPDM Material: Shore A 65 - 75 (Durometer scale)								
Case Depth of Screw	<b>No. 4 and 6 diameter:</b> .002007 <b>No. 8 thru 12 diameter:</b> .004009 <b>1/4" diameter and larger:</b> .005011								
Core Hardness of Screw	Rockwell C32 - 40 (after tempering)								
Plating	See Appendix-A for plating information.								