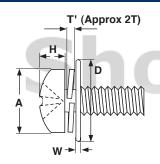
SEMS

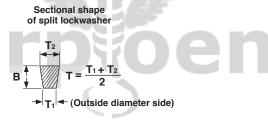
JIS B1188 Small Pan Phillips: STAINLESS Split Lockwasher/Flat Washer



M3 to M4

M5 to M8





Screw Dimensions							Flat Washer			Split Washer			
		A Head Diameter		H Head Height		M Recess Diam	D Outside Diameter		W		D1 Outside Diameter	B(min) x T (min)	Phillips Drive Size
Nominal Size	Thread Pitch												
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max	1	
M2	0.4	0.5	0.4	4.4	4.0	0.0	4.3	4	0.34	0.26	4	0.9 x 0.5	1
M2	0.4	3.5	3.1	1.4	1.2	2.2	5	4.7	0.34	0.26			
M2.5	0.45	4.5	4.1	1.8	1.6	2.6	6.5	6.15	0.55	0.45	4.8	1 x 0.6	1
МЗ	0.5	5.5	.5 5	2.15	1.85	3.6	7	6.65	0.55	0.45	5.5	1.1 x 0.7	2
IVIO	0.5	5.5	5	2.15	1.00	3.0	6	5.7	0.55	0.45			
M4	0.7	7	6.5	2.75	2.45	4.2	9	8.65	0.9	0.7	7	1.4 x 1	2
M5	0.8	9	8.4	3.45	3.15	4.9	10	9.65	1.1	0.9	8.5	1.7 x 1.3	2
M6	1.0	10.5	9.8	4.1	3.7	6.3	12.5	12.1	1.75	1.45	11.5	2.7 x 1.5	3
							Nominal Screw Lengths						
Tolerance on Length			Nominal Screw Size			Up to 1	Up to 10 mm				Over 40 mm		
Tolores								-0.4 -0.6					

-0.6

-0.8

-0.6

-0.8

-1

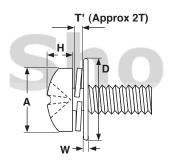
-1

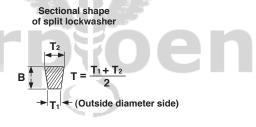
Description	A cross-recessed, pan head machine screw with two free-spinning, captive washers. Directly below the pan head is a heli beneath the split lockwasher is a round flat washer. The diameter and height of the pan head are between 5% and 20% small head.									
Applications/ Advantages	This double washer sems screw is typically a more economical alternative to a patented conical washer sems screw. They are commonly used in the electronics industry. The Stainless Sems screw is used in applications where resistance to corrosion is a primary concern.									
Component	Screw	Split Lockwasher	Flat Washer							
Material	A2 Stainless	304 Stainless	302 Stainless							
Plating	Stainless Sems are usually provided without any additional finish									

JIS B1188 *Small Pan* Phillips: STEEL Split Lockwasher/Flat Washer

SEMS







MET	TRIC	- JIS	B118	В Рніі	LIPS S	SMALL I	Pan S	PLIT V	VASHE	R/F	LAT WAS	SHER SEMS	JIS B1188
Screw Dimensions							Flat Washer			Split Washer			
		Α		н		M		D		w			1
Nominal Size	Thread Pitch	Head Diameter		Head Height		Recess Diam		side neter	Thickness		Outside Diameter	B(min) x T (min)	Phillips Drive Size
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max		
M2	0.4	3.5	3.1	1.4	1.2	2.2	5	4.7	0.34	0.26	4	0.9 x 0.5	1
M2.5	0.45	4.5	4.1	1.8	1.6	2.6	6.5	6.15	0.55	0.45	4.8	1 x 0.6	1
M3	0.5	5.5	5	2.15	1.85	3.6	7	6.65	0.55	0.45	5.5	1.1 x 0.7	2
IVIO							6	5.7	0.55	0.45			
	0.7	7	6.5	2.75	2.45	4.2	10	9.65	1.1	0.9	7	1.4 x 1	2
M4							9	8.65	0.9	0.7			
							8	7.65	0.9	0.7			
M5	0.8	9	8.4	3.45	3.15	4.9	10	9.65	1.1	0.9	8.5	1.7 x 1.3	2
M6	1.0	10.5	9.8	4.1	3.7	6.3	12.5	12.1	1.75	1.45	11.5	2.7 x 1.5	3
					1					V			
				Nominal Screw Lengths									
Tolerance on Length		Nominal Screw Size		Up to 4mm Over 4 r						20 mm to nm, incl.	Over 40 mm		
		M2 & M2.5		-0.3		-0.4		-C	.6		-0.8		
			M3 to M4.5		-		6	-c	.6		-0.8	-1	
		M5 to M8			-		8	-1		-1		-1	

Description	A cross-recessed, pan head machine screw with two free-spinning, captive washers. Directly below the pan head is a helical split lockwasher; beneath the split lockwasher is a round flat washer. The diameter and height of the pan head are between 5% and 20% smaller than a standard pan head.										
Applications/ Advantages	This double washer sems screw is typically a more economical alternative to a patented conical washer sems screw. They are commonly used in the electronics industry.										
Component	Screw	Split Lockwasher	Flat Washer								
Material	Class 4.8 carbon steel	Split lockwashers shall be made from a carbon steel that conforms to the following chemical composition requirements: Carbon: 0.54 - 0.81%; Silicon: 0.15 - 0.35%; Manganese: 0.30 - 0.90%; Phosphorus: 0.030% max.; Sulfur: 0.030% max.	Plain washers shall be made from a carbon steel that conforms to the following chemical composition requirements: *Carbon: 0.12% max.; *Manganese: 0.50% max.; *Phosphorus: 0.040% max.; *Sulfur: 0.045% max.								
Hardness	Rockwell B 71 minimum	Rockwell C 42 - 50	Rockwell B 60 maximum								
Tensile Strength	420 N/mm² (applies to screws with a minimum nominal length of 2.5d (where d is the nominal diameter of the screw)		-								
Plating	Sems are available in zinc yellow and clear zinc finishes, and baked after plating.										