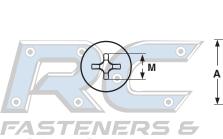
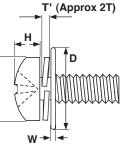
SEMS

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







► T₁ ← (Outside diameter side)

	RIC	- JIS	DIIQ	8 PHIL	LIPS S	Small I	Pan S	Split V	Vashe	er / F i		SHER SEMS	JIS B1188
Screw Dimensions							Flat Washer				Split Washer		
	Thread Pitch		4	н		М	D		v	N	D / D1	0	0
Nominal Size		Head Diameter		Head Height		Recess Diam			Thick	kness	Outside Diameter	B(min) x T (min)	Phillips Drive Size
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max	U	
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
МЗ	0.5	5.5	9	2.15	1.85	3.6	7	6.65	0.55	0.45	5.5	1.1 x 0.7	2
1013	0.5	5.5	1	2.15	1.05	3.0	6	5.7	0.55	0.45	5.5	1.1 X 0.7	2
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
													· · · · · · · · · · · · · · · · · · ·
									Nomi	inal Screw Lengths			
Talawa			Nominal Screw Size		w Size	Up to 10 mm		Over 10 mm to 20 mm, incl.		Over 20 mm to 40 mm, incl.		Over 40 mm	
Tolera	nce on L			M2.5		-0.4		-0.6		6	-0.8	PONEN	75
				M3 to M4		-0.6		-0.6		-0.8		-1	
					M5 to M8		-0.8		-1		-1	-1	
			•		7								
Desc	ription							U 1	nt of the par			nead is a helical split loo nd 20% smaller than a	
	cations/ intages	This c	double wash elec	er sems sc tronics indu	rew is typica stry. The S	ally a more ec tainless Sem	conomical a s screw is u	alternative to used in appl	o a patented lications wh	d conical w iere resista	asher sems sc nce to corrosio	rew. They are common n is a primary concern.	ly used in the
Component			Screw				Split Lockwasher				0	Flat Washer	0
			A2 Stainless				304 Stainless			FASTENERS & COMPONENTS			
Material										302 Stainless			
			0	•									

FASTENERS & COMPONENTS

METRIC FASTENERS

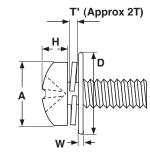
SEMS

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

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FASTENERS &



Sectional shape of split lockwasher

 $B \xrightarrow{T_2} T = \frac{T_1 + T_2}{2}$

METRIC - JIS B1188 PHILLIPS S Screw Dimensions						MALL PAN SPLIT WASHE					FLAT WASHER SEMS J Split Washer		JIS B1188
		1	A H				D Flat washe			Nol	D1		7
Nominal Size M2	Thread Pitch	Head Diameter		Head Height		M Recess Diam	Outside Diameter		Thickness		Outside Diameter	B(min) x T (min)	Phillips Drive Size
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max		C .
	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
мз	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
				0.75	0.45	10	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
						i							
						Non				inal Scre	w Lengths		1
Tolera	nce on L	enath	ngth M2.5		Up to 10 mm		Over 10 mm to 20 mm, incl.		Over 20 mm t 40 mm, incl.		Over 40 mm		
Totoru		engin			-0.4		-0.6						
				M2.5		-0.	4	-0).6	CO	-0.8	NENTS	Ń
				M2.5 M3 to M4		-0. -0.).6).6		-0.8 -0.8		<i>k</i>
0		0				-	6	-0	-			/ W/E/ W//	
Appli	cription cations/ antages	bene This c	cross-reces ath the split double wash	M3 to M4 M5 to M8 ssed, pan he lockwasher	ead maching r is a round	-0. -0. e screw with t flat washer. 1	6 8 two free-sp The diamete	-C - inning, capt er and heigl hea	0.6 1 tive washers ht of the part d. o a patente	s. Directly t	-0.8 -1 below the pan l between 5% a	-1	standard pan
Appli Adva	cations/	bene This c	cross-reces ath the split double wash	M3 to M4 M5 to M8 ssed, pan he lockwasher	ead maching r is a round	-0. -0. e screw with t flat washer. 1	6 8 two free-sp The diamete	inning, capt er and heigt hea alternative to electronics	0.6 1 tive washers ht of the part d. o a patente	s. Directly t	-0.8 -1 between 5% a asher sems so	-1 -1 nead is a helical split loo nd 20% smaller than a	standard pan
Appli Adva Com	cations/ intages	bene This c	cross-reces ath the split	M3 to M4 M5 to M8 ssed, pan he lockwasher	ead maching r is a round rew is typica	-0. -0. -0. flat washer. 1 ally a more ea Split lock carbon str ing chemi <i>Carbon</i> - 0.35%	6 8 7he diametr conomical a Split Loca washers sh eel that cor ical composi or 0.54 - 0.8 ; Mangane	inning, capt er and heigi hea alternative tr electronics kwasher nall be made nforms to th sition requir 1%; Silicon ese: 0.30 - 0 60% max.; S	0.6 1 tive washer: ht of the part d. o a patente industry. e from a e follow- ements: r. 0.15 0.90%;	s. Directly b n head are d conical w Plain v conforms t	-0.8 -1 between 5% a asher sems so washers shall I o the following tom: 0.12% m	-1 -1 nead is a helical split loo nd 20% smaller than a rew. They are common	standard pan ly used in the steel that requirements: 6 max.;
Appli Adva Com Ma	cations/ antages ponent	bene This c	cross-reces ath the split double wash Class 4.	M3 to M4 M5 to M8 ssed, pan he lockwasher her sems sc	ead machin r is a round rew is typica	-0. -0. -0. flat washer. 1 ally a more ea Split lock carbon str ing chemi <i>Carbon</i> - 0.35%	6 8 8 conomical a <i>Split Loca</i> washers sh eel that cor ical composi c 0.54 - 0.8 ; <i>Mangang</i> horus: 0.03	inning, capt er and heigt hea alternative to electronics kwasher hall be made nforms to the sition requir 11%; Silicon ese: 0.30 - (00% max.; S 6 max.	0.6 1 tive washer: ht of the part d. o a patente industry. e from a e follow- ements: r. 0.15 0.90%;	s. Directly b n head are d conical w Plain v conforms t	-0.8 -1 below the pan I between 5% a asher sems so asher sems so washers shall t o the following <i>bon:</i> 0.12% m <i>sphorus:</i> 0.044	-1 -1 head is a helical split loo nd 20% smaller than a rew. They are common Flat Washer be made from a carbon chemical composition ax.; Manganese: 0.50%	standard pan ly used in the steel that requirements: 6 max.;
Appli Adva Com Ma Har	cations/ antages ponent	th dis t	cross-reces ath the split double wash Class 4.	M3 to M4 M5 to M8 Inter sems sc Screw 8 carbon ste B 71 minim plies to scree d length of 2 diameter of	ead machin r is a round rew is typica eel uum ews with a 2.5d (where	-0. -0. -0. e screw with f flat washer. T ally a more ed Split lock carbon str ing chemi <i>Carbon</i> - 0.35% <i>Phospl</i>	6 8 8 conomical a <i>Split Loc.</i> washers sh eel that cor ical composi t 0.54 - 0.8 ; <i>Mangane</i> <i>horus</i> : 0.03 0.030%	inning, capt er and heigt hea alternative tr electronics kwasher hall be made nforms to th sition requir 11%; Silicon ese: 0.30 - (00% max.; S 6 max.	0.6 1 tive washer: ht of the part d. o a patente industry. e from a e follow- ements: r. 0.15 0.90%;	s. Directly b n head are d conical w Plain v conforms t	-0.8 -1 below the pan I between 5% a asher sems so asher sems so washers shall t o the following <i>bon:</i> 0.12% m <i>sphorus:</i> 0.044	-1 -1 nead is a helical split loo nd 20% smaller than a rew. They are common Flat Washer Flat Washer e made from a carbon chemical composition ax.; Manganese: 0.50° 0% max.; Sulfur: 0.045	standard pan ly used in the steel that requirements: 6 max.;