

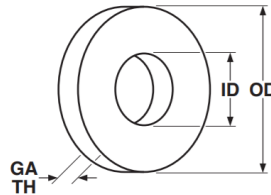


# Metallics

An **AMERICAN** Source For Premier  
and Innovative Fasteners and Anchors

## FLAT (SAE) WASHER – DOMESTIC, STEEL ZINC, 18-8 STAINLESS STEEL, AND 316 STAINLESS STEEL

The following Specification Sheet applies to all **Flat (SAE) Washers – Domestic, Steel Zinc, 18-8 Stainless Steel, and 316 Stainless Steel** in our **JSW** series.



<b>SAE LOW CARBON &amp; STAINLESS WASHERS</b>									
<b>Bolt Size</b>	<b>Outside Diameter</b>			<b>Inside Diameter</b>			<b>Thickness</b>		
	<b>Nominal</b>	<b>Max</b>	<b>Min</b>	<b>Nominal</b>	<b>Max</b>	<b>Min</b>	<b>American Standard (Gauge)</b>	<b>Max</b>	<b>Min</b>
4	5/16	0.320	0.307	1/8	0.133	0.120	(1/32)	.040	.025
6	3/8	0.390	0.370	5/32	0.164	0.151	18 (3/64)	.065	.036
8	7/16	0.453	0.433	3/16	0.196	0.183	18 (3/64)	.065	.036
10	1/2	0.515	0.495	7/32	0.227	0.214	18 (3/64)	.065	.036
3/16	9/16	0.577	0.557	1/4	0.265	0.245	18 (3/64)	.065	.036
12	9/16	0.577	0.557	1/4	0.265	0.245	16 (1/16)	.080	.051
1/4	5/8	0.640	0.620	9/32	0.296	0.276	16 (1/16)	.080	.051
5/16	11/16	0.703	0.681	11/32	0.359	0.339	16 (1/16)	.080	.051
3/8	13/16	0.827	0.805	13/32	0.419	0.401	16 (1/16)	.080	.051
7/16	59/64	0.937	0.915	15/32	0.484	0.464	16 (1/16)	.080	.051
1/2	1-1/16	1.092	1.055	17/32	0.546	0.526	13 (3/32)	.121	.074
9/16	1-3/16	1.186	1.149	19/32	0.609	0.589	13 (3/32)	.121	.074
5/8	1-5/16	1.342	1.305	21/32	0.686	0.649	13 (3/32)	.121	.074
3/4	1-1/2	1.499	1.462	13/16	0.842	0.805	10 (9/64)	.160	.108
7/8	1-3/4	1.780	1.743	15/16	0.968	0.931	10 (9/64)	.160	.108
1	2	2.030	1.993	1-1/16	1.092	1.055	10 (9/64)	.160	.108

### Metallics

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<b>Description</b>	Similar to a USS washer, but with slightly smaller inside and outside diameters. Also, most but not all SAE washers are made from thinner materials than USS washers.		
<b>Applications/ Advantages</b>	SAE washers were designed to serve similar purposes as the USS washers, but specifically to meet the requirements in the field of automotive engineering.		
<b>Material</b>	<i>Steel</i>	<i>Stainless</i>	
	Plain washers shall be punched from hot-rolled, hot-rolled and pickled, or cold-rolled steel, or shall be machined from bar stock or tubing, or may be forged at the manufacturer's option.	18-8 Stainless Steel	316 Stainless Steel
<b>Plating</b>	Steel SAE washers are supplied in zinc and black oxide finishes. Other platings are available.	Stainless SAE washers are usually supplied without any secondary finish.	

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