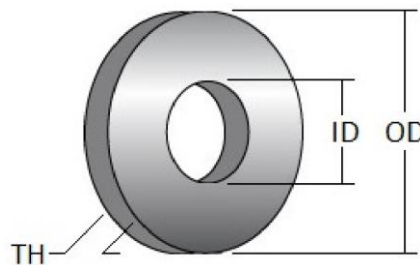


Metallics

An **AMERICAN** Source For Premier
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USS FLAT WASHER – METRIC - STEEL ZINC, 18-8 STAINLESS STEEL, AND 316 STAINLESS STEEL

The following Specification Sheet applies to all **USS Flat Washer – Metric - Steel Zinc, 18-8 Stainless Steel, and 316 Stainless Steel** in our **JMSW** series.



METRIC - STANDARD FLAT WASHERS (NORMAL SERIES, GRADE A)						
NomSize	ID		OD		Th	
	Max	Min	Max	Min	Max	Min
3	3.38	3.2	7	6.64	0.55	0.45
3.5	3.88	3.7	8	7.64	0.55	0.45
4	4.48	4.3	9	8.64	0.9	0.7
5	5.48	5.3	10	9.64	1.1	0.9
6	6.62	6.4	12	11.57	1.8	1.4
8	8.62	8.4	16	15.57	1.8	1.4
10	10.77	10.5	20	19.48	2.2	1.8
12	13.27	13	24	23.48	2.7	2.3
14	15.27	15	28	27.48	2.7	2.3
16	17.27	17	30	29.48	3.3	2.7
20	21.33	21	37	36.38	3.3	2.7
24	25.33	25	44	43.38	4.3	3.7

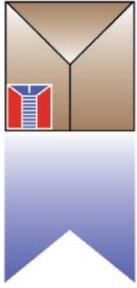
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Description	Steel	Stainless
	A thin, flat circular part with a centrally located hole. Class 300 HV washers are also hardened and tempered.	
Applications/ Advantages	Washers are for assembly around a bolt or screw, between the bearing surface of the fastener and the part to which it is attached. Flat washers are used to improve stress distribution, and to span large clearance holes. <u>Class 140 HV & Class 200 HV</u> metric washers meet the majority of industrial applications in manufacturing, maintenance and repair. <u>Class 300 HV</u> metric washers are best suited for use with through-hardened cap-screws, bolts and nuts.	Washers are for assembly around a bolt or screw, between the bearing surface of the fastener and the part to which it is attached. Flat washers are used to improve stress distribution, and to span large clearance holes. <u>Stainless</u> washers are for use with austenitic stainless steel screws and nuts in general industrial applications where parts are subject to corrosion.
Material	Low or medium carbon steel	Austenitic stainless steel
Hardness	Class 140 HV: HV 140 minimum (Rockwell B 75 minimum) Class 200 HV: HV 200-300 (Rockwell B 91.5 - C 29.8) Class 300 HV: HV 300-400 (Rockwell C 29.8 - 40.8)	HV 140 minimum (Rockwell B75 minimum)

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