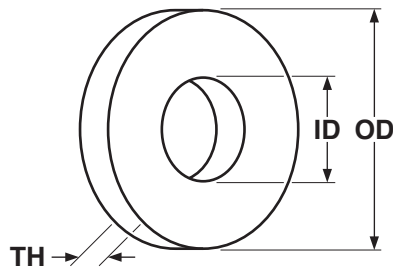


METRIC FASTENERS

DIN 9021 Fender

WASHERS



METRIC - FENDER WASHERS						DIN 9021
Nominal Size	ID		OD		TH	
	Internal Diameter		Outside Diameter		Thickness	
	Max	Min	Max	Min	Max	Min
M2	2.34	2.20	6.00	5.84	0.90	0.70
M2.5	2.84	2.70	8.00	7.64	0.90	0.70
M3	3.38	3.20	9.00	8.64	0.90	0.70
M4	4.48	4.30	12.00	11.57	1.10	0.90
M5	5.48	5.30	15.00	14.57	1.40	1.10
M6	6.62	6.40	18.00	17.57	1.80	1.40
M8	8.62	8.40	24.00	23.48	2.20	1.80
M10	10.77	10.50	30.00	29.48	2.70	2.30
M12	13.27	13.00	37.00	36.38	3.30	2.70

Description	A flat washer with significantly more surface area than a DIN 125 or DIN 433 washer. They are also made from a thinner gauge metal than most flat washers.	
Applications/ Advantages	Used where an extra wide bearing surface is required. Originally designed for auto body repair work, they are also used in sheet metal, plumbing, and electrical work. Also used to attach signs to posts, to install drywall and wood paneling.	
Material	Steel	A2 & A4 Stainless Steel
Hardness	Vickers 140-250 HV	Vickers 140-250 HV
Plating	See Appendix-A for information on the plating of steel flat washers.	Stainless washers are usually provided without additional finish.