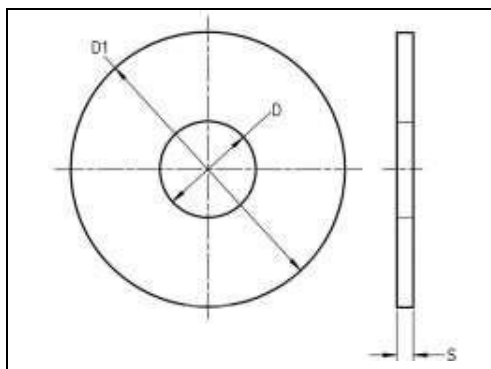




Product Dimensions and Weights

DIN 9021 / ISO 7093 Specifications

Metric DIN 9021 Flat Fender Washers OD ~3 x dia



For thread	Nominal size	D		D1		S			Weight kg/1000pcs
		min.	max.	max.	min.	Nominal size	max.	min.	
M2.5	2.7	2.7	2.84	8	7.64	0.8	0.9	0.7	0.28
M3	3.2	3.2	3.38	9	8.64	0.8	0.9	0.7	0.349
M3.5	3.7	3.7	3.88	11	10.57	0.8	0.9	0.7	0.529
M4	4.3	4.3	4.48	12	11.57	1	1.1	0.9	0.774
M5	5.3	5.3	5.48	15	14.57	1.2	1.4	1	1.46
M6	6.4	6.4	6.62	18	17.57	1.6	1.8	1.4	2.79
M7	7.4	7.4	7.62	22	21.48	2	2.2	1.8	5.29
M8	8.4	8.4	8.62	24	23.48	2	2.2	1.8	6.23
M10	10.5	10.5	10.77	30	29.48	2.5	2.7	2.3	12.2
M12	13	13	13.27	37	36.38	3	3.3	2.7	22.2
M14	15	15	15.27	44	43.38	3	3.3	2.7	31.6
M16	17	17	17.27	50	49.38	3	3.3	2.7	40.9
M18	20	20	20.52	56	54.1	4	4.6	3.4	67.4
M20	22	22	22.52	60	58.1	4	4.6	3.4	76.8
M24	26	26	26.84	72	70.1	5	6	4	139
M30	33	33	34	92	89.8	6	7	5	273
M36	39	39	40	110	107.8	8	9.2	6.8	522



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Metric DIN 9021 Flat Fender Washers are round flat washers with a larger outer diameter (OD) approximately 3 x inner diameter (ID). These larger OD washers are typically used to distribute the load over a larger bearing surface than a standard flat washer. The washer is to be positioned below the head of a bolt or below the nut. This even distribution over a larger area reduces the chance of damaging the bearing surface. A washer could also be used if the outer diameter of a mating nut is smaller than the hole through which the screw is placed. Unique Fasteners offers over 500,000 unique fastener products from stock in inch and metric standard in a variety of materials and finishes. The following sizes of metric DIN 9021 flat fender washers are available for immediate shipping from stock: Diameters ranging from M3 to M24 in steel, nylon and stainless steel A2 and A4.

DIN (Deutsches Institut für Normung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 9021 fender flat washers. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization. The ISO equivalent for DIN 9021 flat fender washers is ISO 7093.