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Alignment (Spherical) Washers

Also known as equalizing, leveling, self-aligning, and spherical washers. A male & female pair are a great solution for fastening a non-parallel surface and clamping uneven parts together. The male washer has a convex bottom surface, while the female has a matching concave top. The male washer has a slightly narrower ID than the female washer while both have the same radius. This allows a bolt to pass through both washers to compensate for misaligned surfaces. A pair of spherical washers have a 3-4° angle of correction. Ideal for die and fixturing applications.

Materials and finishes offered in:

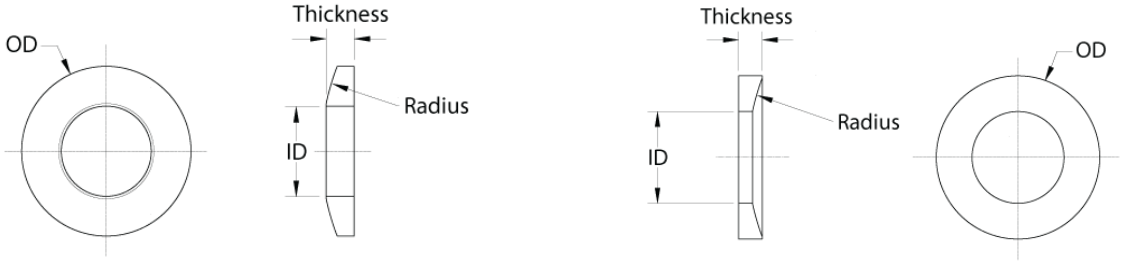
- 18-8 Stainless Steel, Plain Finish
- 316 Stainless Steel, Plain Finish
- Alloy Hardened Steel, Black-Oxide Finish
- Alloy Hardened Steel, Zinc-Plated Finish

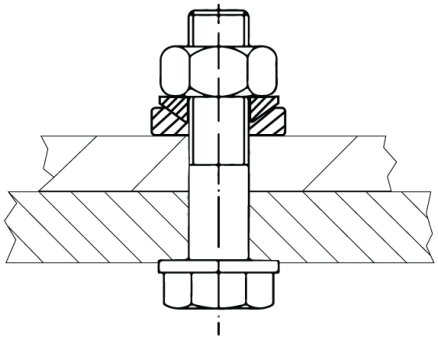


Male Washer



Female Washer





Spherical set transmitting the clamping pressure

Alignment (Spherical) Washers — Metric



18-8 SS Male Washer



18-8 SS Female Washer



18-8 SS Set

Bolt Size	Radius	Male				Female				Set	
		ID	OD	Thickness	18-8 SS Male Part Number	ID	OD	Thickness	18-8 SS Female Part Number	Thickness	18-8 SS Spherical Set Part Number
M6	M9	6.40	12.00	2.30	Z9521M	7.10	12.00	2.80	Z9521F	4.20	Z9521SET
M8	M12	8.40	17.00	3.20	Z9523M	9.60	17.00	3.50	Z9523F	5.60	Z9523SET
M10	M15	10.50	21.00	4.00	Z9525M	12.00	21.00	4.20	Z9525F	6.50	Z9525SET
M12	M17	13.00	24.00	4.60	Z9527M	14.20	24.00	5.00	Z9527F	8.00	Z9527SET
M16	M22	17.00	30.00	5.30	Z9531M	19.00	3.00	6.20	Z9531F	9.60	Z9531SET
M20	M27	21.00	36.00	6.30	Z9533M	23.20	36.00	7.50	Z9533F	11.70	Z9533SET
M24	M32	25.00	44.00	8.20	Z9535M	28.00	44.00	9.50	Z9535F	15.20	Z9535SET
M30	M41	31.00	56.00	11.20	Z9537M	35.00	56.00	12.00	Z9537F	19.20	Z9537SET



Steel, Black Oxide Male Washer



Steel, Black Oxide Female Washer



Steel, Black Oxide Set

Bolt Size	Radius	Male				Female				Set	
		ID	OD	Thickness	Steel, Black Oxide Male Part Number	ID	OD	Thickness	Steel, Black Oxide Female Part Number	Thickness	Steel, Black Oxide Spherical Set Part Number
M6	M9	6.40	12.00	2.30	Z9520M	7.10	12.00	2.80	Z9520F	4.20	Z9520SET
M8	M12	8.40	17.00	3.20	Z9522M	9.60	17.00	3.50	Z9522F	5.60	Z9522SET
M10	M15	10.50	21.00	4.00	Z9524M	12.00	21.00	4.20	Z9524F	6.50	Z9524SET
M12	M17	13.00	24.00	4.60	Z9526M	14.20	24.00	5.00	Z9526F	8.00	Z9526SET
M14	M22	15.00	28.00	5.00	Z9528M	16.50	28.00	5.60	Z9528F	9.00	Z9528SET
M16	M22	17.00	30.00	5.30	Z9530M	19.00	3.00	6.20	Z9530F	9.60	Z9530SET
M20	M27	21.00	36.00	6.30	Z9532M	23.20	36.00	7.50	Z9532F	11.70	Z9532SET
M24	M32	25.00	44.00	8.20	Z9534M	28.00	44.00	9.50	Z9534F	15.20	Z9534SET
M30	M41	31.00	56.00	11.20	Z9536M	35.00	56.00	12.00	Z9536F	19.20	Z9536SET

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