



# Washers - Self Aligning - Components - Hardened Steel

10/4/2018

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## INFORMATION

Spherical Seat Washers. Washer A (aligning) and washer B (seat) sold separately.

Hardened steel 9 S Mn Pb 28 K DIN 6319.

Order a base washer and an aligning washer to make a complete unit.

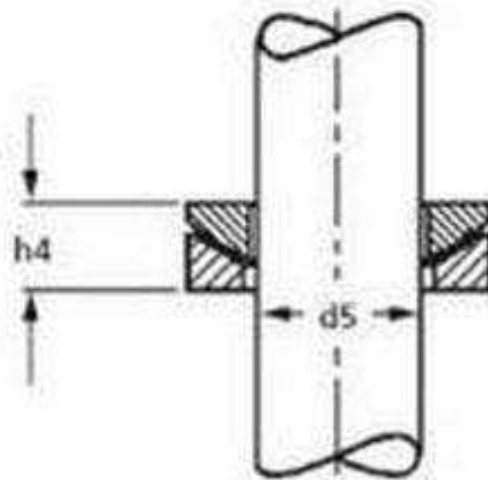
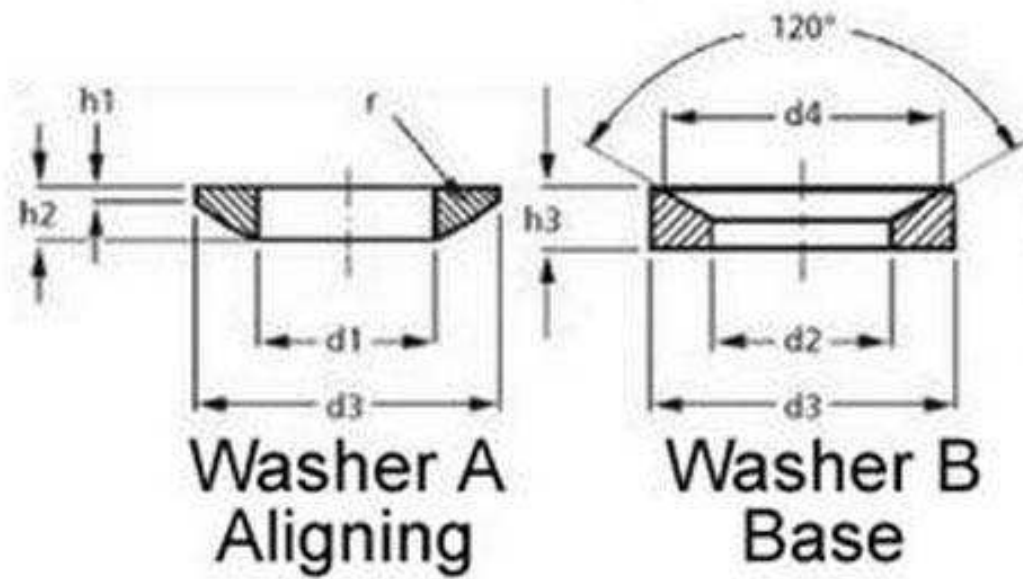
Max Shaft Size Shown will allow 3<sup>o</sup> of misalignment.

DIN 6319-NI washers are used for clamping mechanical parts with non-parallel surfaces.

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Part Number	Suits Shaft or Bolt Size mm	Bore Size (d1 or d2) mm	OD (d3) mm	Thickness (h2 or h3) mm	Overall Thickness (h4) mm	Radius (r) mm	Type	Material
	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
W0060-ALN-CA	6.00 <i>0.236</i>	6.4 <i>0.252</i>	12.00 <i>0.472</i>	2.3 <i>0.091</i>	4.0 <i>0.157</i>	9.0 <i>0.354</i>	Washer A (Aligning)	Hardened Steel
W0060-ALN-CB	6.00 <i>0.236</i>	7.1 <i>0.280</i>	12.00 <i>0.472</i>	2.8 <i>0.110</i>	4.0 <i>0.157</i>		Washer B (Base)	Hardened Steel
# W0060-ALN-CBH	6.00 <i>0.236</i>	7.1 <i>0.280</i>	17.00 <i>0.669</i>	4.0 <i>0.157</i>	5.2 <i>0.205</i>		Washer B (Base) - Heavy Duty	Hardened Steel
W0080-ALN-CA	8.00 <i>0.315</i>	8.4 <i>0.331</i>	17.00 <i>0.669</i>	3.2 <i>0.126</i>	5.0 <i>0.197</i>	12.0 <i>0.472</i>	Washer A (Aligning)	Hardened Steel
W0080-ALN-CB	8.00 <i>0.315</i>	9.6 <i>0.378</i>	17.00 <i>0.669</i>	3.5 <i>0.138</i>	5.0 <i>0.197</i>		Washer B (Base)	Hardened Steel
# W0080-ALN-CBH	8.00 <i>0.315</i>	9.6 <i>0.378</i>	23.00 <i>0.906</i>	4.0 <i>0.157</i>	5.5 <i>0.217</i>		Washer B (Base) - Heavy Duty	Hardened Steel
W0100-ALN-CA	10.00 <i>0.394</i>	10.5 <i>0.413</i>	21.00 <i>0.827</i>	4.0 <i>0.157</i>	6.3 <i>0.248</i>	15.0 <i>0.591</i>	Washer A (Aligning)	Hardened Steel
W0100-ALN-CB	10.00 <i>0.394</i>	12 <i>0.472</i>	21.00 <i>0.827</i>	4.2 <i>0.165</i>	6.3 <i>0.248</i>		Washer B (Base)	Hardened Steel
# W0100-ALN-CBH	10.00 <i>0.394</i>	12 <i>0.472</i>	30.00 <i>1.181</i>	5.0 <i>0.197</i>	7.1 <i>0.280</i>		Washer B (Base) - Heavy Duty	Hardened Steel

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	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
W0120-ALN-CA	12.00 <i>0.472</i>	13 <i>0.512</i>	24.00 <i>0.945</i>	4.6 <i>0.181</i>	8.0 <i>0.315</i>	17.0 <i>0.669</i>	Washer A (Aligning)	Hardened Steel
W0120-ALN-CB	12.00 <i>0.472</i>	14.2 <i>0.559</i>	24.00 <i>0.945</i>	5.0 <i>0.197</i>	8.0 <i>0.315</i>		Washer B (Base)	Hardened Steel
# W0120-ALN-CBH	12.00 <i>0.472</i>	14.2 <i>0.559</i>	35.00 <i>1.378</i>	5.0 <i>0.197</i>	8.0 <i>0.315</i>		Washer B (Base) - Heavy Duty	Hardened Steel
W0160-ALN-CA	16.00 <i>0.630</i>	17 <i>0.669</i>	30.00 <i>1.181</i>	5.3 <i>0.209</i>	9.3 <i>0.366</i>	22.0 <i>0.866</i>	Washer A (Aligning)	Hardened Steel
W0160-ALN-CB	16.00 <i>0.630</i>	19 <i>0.748</i>	30.00 <i>1.181</i>	6.2 <i>0.244</i>	9.3 <i>0.366</i>		Washer B (Base)	Hardened Steel
# W0160-ALN-CBH	16.00 <i>0.630</i>	19 <i>0.748</i>	45.00 <i>1.772</i>	6.0 <i>0.236</i>	9.1 <i>0.358</i>		Washer B (Base) - Heavy Duty	Hardened Steel
W0200-ALN-CA	20.00 <i>0.787</i>	21 <i>0.827</i>	36.00 <i>1.417</i>	6.3 <i>0.248</i>	11.5 <i>0.453</i>	27.0 <i>1.063</i>	Washer A (Aligning)	Hardened Steel
W0200-ALN-CB	20.00 <i>0.787</i>	23.2 <i>0.913</i>	36.00 <i>1.417</i>	7.5 <i>0.295</i>	11.5 <i>0.453</i>		Washer B (Base)	Hardened Steel
# W0200-ALN-CBH	20.00 <i>0.787</i>	23.2 <i>0.913</i>	50.00 <i>1.969</i>	8.0 <i>0.315</i>	12.0 <i>0.472</i>		Washer B (Base) - Heavy Duty	Hardened Steel

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	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
W0240-ALN-CA	24.00 <i>0.945</i>	25 <i>0.984</i>	44.00 <i>1.732</i>	8.2 <i>0.323</i>	15.0 <i>0.591</i>	32.0 <i>1.260</i>	Washer A (Aligning)	Hardened Steel
W0240-ALN-CB	24.00 <i>0.945</i>	28 <i>1.102</i>	44.00 <i>1.732</i>	9.5 <i>0.374</i>	15.0 <i>0.591</i>		Washer B (Base)	Hardened Steel
# W0240-ALN-CBH	24.00 <i>0.945</i>	28 <i>1.102</i>	60.00 <i>2.362</i>	10.0 <i>0.394</i>	15.5 <i>0.610</i>		Washer B (Base) - Heavy Duty	Hardened Steel
W0300-ALN-CA	30.00 <i>1.181</i>	31 <i>1.220</i>	56.00 <i>2.205</i>	11.2 <i>0.441</i>	19.7 <i>0.776</i>	41.0 <i>1.614</i>	Washer A (Aligning)	Hardened Steel
W0300-ALN-CB	30.00 <i>1.181</i>	35 <i>1.378</i>	56.00 <i>2.205</i>	12.0 <i>0.472</i>	19.7 <i>0.776</i>		Washer B (Base)	Hardened Steel
W0360-ALN-CA	36.00 <i>1.417</i>	37 <i>1.457</i>	68.00 <i>2.677</i>	14.0 <i>0.551</i>	23.0 <i>0.906</i>	50.0 <i>1.969</i>	Washer A (Aligning)	Hardened Steel
W0360-ALN-CB	36.00 <i>1.417</i>	42 <i>1.654</i>	68.00 <i>2.677</i>	15.0 <i>0.591</i>	23.0 <i>0.906</i>		Washer B (Base)	Hardened Steel
W0420-ALN-CA	42.00 <i>1.654</i>	43 <i>1.693</i>	78.00 <i>3.071</i>	17.0 <i>0.669</i>	29.0 <i>1.142</i>	58.0 <i>2.283</i>	Washer A (Aligning)	Hardened Steel
W0420-ALN-CB	42.00 <i>1.654</i>	49 <i>1.929</i>	78.00 <i>3.071</i>	18.0 <i>0.709</i>	29.0 <i>1.142</i>		Washer B (Base)	Hardened Steel

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	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>	<i>inches</i>		
# W0480-ALN-CA	48.00	50	92.00	21.0	36.0	67.0	Washer A (Aligning)	Hardened Steel
	<i>1.890</i>	<i>1.969</i>	<i>3.622</i>	<i>0.827</i>	<i>1.417</i>	<i>2.638</i>		
# W0480-ALN-CB	48.00	56	92.00	22.0	36.0		Washer B (Base)	Hardened Steel
	<i>1.890</i>	<i>2.205</i>	<i>3.622</i>	<i>0.866</i>	<i>1.417</i>			

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