

Oil Seal Tolerance Chart – Metric (mm)

PRESS-FIT ALLOWANCE			
Bore Diameter (mm)	Metal Case	Rubber Covered Case	Permissible Eccentricity
Up to 50	+0.10 - +0.20	+0.15 - +0.30	0.250
Over 50 to 80	0.13- +0.23	+0.20- +0.35	0.350
Over 80 to 120	+0.15- +0.25	+0.20- +0.35	0.500
Over 120 to 180	+0.18- +0.28	+0.25- +0.45	0.650
Over 180 to 300	+0.20- +0.30	+0.25- +0.45	0.800
Over 300 to 500	+0.23- +0.35	+0.30- +0.55	1.000

HOUSE TOLERANCE		SHAFT TOLERANCE	
Bore Diameter (mm)	Bore Tolerance	Shaft Diameter (mm)	Tolerance
Over 6 to 10	+0.022/-0.000	Over 3 to 6	0/-0.075
Over 10 to 18	+0.027/-0.000	Over 6 to 10	0/-0.090
Over 18 to 30	+0.033/-0.000	Over 10 to 18	0/-0.110
Over 30 to 50	+0.039/-0.000	Over 18 to 30	0/-0.130
Over 50 to 80	+0.046/-0.000	Over 30 to 50	0/-0.160
Over 80 to 120	+0.054/-0.000	Over 50 to 80	0/-0.190
Over 120 to 180	+0.063/-0.000	Over 80 to 120	0/-0.220
Over 180 to 250	+0.072/-0.000	Over 120 to 180	0/-0.250
Over 250 to 315	+0.081/-0.000	Over 180 to 250	0/-0.290
Over 315 to 400	+0.089/-0.000	Over 250 to 315	0/-0.320
Over 400 to 500	+0.097/-0.000	Over 315 to 400	0/-0.360

Although the technical details and recommendations made correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use Polymax products must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. All sales subject to our standard terms. www.polymax.co.uk/sales-terms

Oil Seal Tolerance Chart – Imperial (in)

DIAMETER (in)	TOLERANCE
Up to and including 4.000	+/-0.003
4.001 to 6.000	+/-0.004
6.001 to 10.000	+/-0.005
10.0001 and larger	+/-0.006

Bore Diameter (mm)	PRESS-FIT ALLOWANCE		BORE TOLERANCE	
	Metal Case	Rubber Case	Metal Case	Rubber Case
Up to 1.000	+0.004	+0.006	+/-0.002	+/-0.003
1.001 to 2.000	+0.004	+0.007	+/-0.002	+/-0.003
2.001 to 3.000	+0.004	+0.008	+/-0.002	+/-0.003
3.001 to 4.000	+0.005	+0.010	+/-0.002	+/-0.004
4.001 to 6.000	+0.005	+0.010	+0.003/-0.002	+/-0.004
6.001 to 8.000	+0.006	+0.010	+0.003/-0.002	+/-0.004
8.001 to 10.000	+0.008	+0.010	+0.004/-0.002	+/-0.004
10.001 to 20.000	+0.008	+0.010	+0.006/-0.002	+/-0.004
20.001 to 40.000	+0.008	+0.010	+0.008/-0.002	+/-0.004

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