

# Technical Information Seal Tolerance

## Seal Tolerance

The seal width and O.D tolerances are in tables below:

### Width Tolerance of Seal

Unit	Width Range	Tolerance
Inch	all	+/-0.015
mm	Up to 10	+/-0.20
mm	Over 10	+/-0.30

### Seal Outside Diameter Tolerances (Imperial)

Bore Diameter	Press-fit allowance		Tolerance	
	Metal Case	Rubber Covered case	Metal Case	Rubber Covered 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
40.001 to 60.000	+0.008	+0.010	+0.010 -0.002	+/-0.004

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### Seal Outside Diameter Tolerances (Metric)

Bore Diameter	Press Fit allowance		Permissible Eccentricity
	Metal Case	Rubber Covered Case	
Up to 50	+0.20 -0.10	+0.30 -0.15	0.25
Over 50 to 80	+0.23 -0.13	+0.35 -0.20	0.35
Over 80 to 120	+0.25 -0.15	+0.35 -0.20	0.50
Over 120 to 180	+0.28 -0.18	+0.45 -0.25	0.65
Over 180 to 300	+0.30 -0.20	+0.45 -0.25	0.80
Over 300 to 500	+0.35 -0.23	+0.55 -0.30	1.00