

Oil Seal Inner Diameter Tolerance Table – Inch

Shaft Diameter	Inner Diameter	Tolerance	After Spring Installed	Tolerance
up to 0.500	-0.027	+0.004/-0.008	-0.039	±0.008
0.501~1.000	-0.032		-0.044	
1.001~2.000	-0.035	+0.006/-0.012	-0.053	±0.012
2.001~3.000	-0.040		-0.060	
3.001~4.000	-0.048		-0.068	
4.001~6.000	-0.056		-0.076	
6.001~10.000	-0.062	+0.008/-0.016	-0.086	±0.016
10.001~13.000	-0.070		-0.094	
13.001~16.000	-0.078		-0.102	
16.001~20.000	-0.086		-0.110	
20.001~40.000	-0.120	+0.010/-0.020	-0.157	±0.020
40.001~	-0.140	+0.012/-0.020	-0.178	±0.024

Oil Seal Outer Diameter Tolerance Table – Inch

Bore Diameter	Metal Case OD	Tolerance	Rubber OD	Tolerance	G-Type OD	Tolerance
up to 1.000	+0.004	±0.002	+0.006	±0.003	+0.010	±0.003
1.001~2.000			+0.007		+0.012	±0.004
2.001~3.000			+0.008		+0.014	
3.001~4.000	+0.005	+0.003/-0.002	+0.010	±0.004	+0.016	
4.001~6.000			+0.012		+0.016	+0.006/-0.004
6.001~8.000	+0.006				+0.018	
8.001~10.000	+0.008	+0.004/-0.002	+0.014		+0.020	+0.008/-0.004
10.001~20.000		+0.006/-0.002	+0.016	±0.005	+0.022	
20.001~40.000		+0.008/-0.002	+0.018	±0.006	+0.024	
40.001~60.000		+0.010/-0.002	+0.020	±0.007	+0.026	+0.010/-0.004

Oil Seal Outer Diameter Tolerance Table – Inch

Height	Tolerance
All Heights	+0.015/-0.015

Oil Seal Inner Diameter Tolerance Table – Metric

Shaft Diameter (mm)	Inner Diameter (mm)	Tolerance	After Spring Installed (mm)	Tolerance
<10.00	-0.60	+0.10/-0.20	-0.90	±0.20
10.01~18.00	-0.70		-1.00	
18.01~30.00	-0.80		-1.10	
30.01~50.00	-0.90	+0.15/-0.30	-1.40	±0.30
50.01~80.00	-1.10		-1.60	
80.01~120.00	-1.30		-1.80	
120.01~180.00	-1.50		-2.00	
180.01~250.00	-1.60	+0.20/-0.40	-2.20	±0.40
250.01~300.00	-1.80		-2.40	
300.01~400.00	-2.00		-2.60	
400.01~500.00	-2.20		-2.80	

Oil Seal Outer Diameter Tolerance Table – Metric

Bore Diameter (mm)	Metal Case OD Tolerance	Rubber OD Tolerance	G-Type OD Tolerance
<10.00	+0.20/+0.10	+0.30/+0.15	+0.40/+0.20
10.01~18.00			
18.01~30.00			
30.01~50.00			
50.01~80.00	+0.23/+0.13	+0.35/+0.20	+0.45/+0.25
80.01~120.00	+0.25/+0.15		+0.50/+0.30
120.01~180.00	+0.28/+0.18	+0.45/+0.25	+0.55/+0.35
180.01~250.00	+0.30/+0.20		+0.70/+0.40
250.01~300.00			
300.01~400.00	+0.35/+0.23	+0.55/+0.30	+0.75/+0.45
400.01~500.00			

Oil Seal Height Tolerance Table – Metric

Height (mm)	Tolerance (mm)
<10.00	+/-0.20
10.00	+/-0.30