

# Bore Tolerance Charts

## Inches

Bore Diameter	Bore Tolerance	Nominal Press Fit		Seal OD Tolerance	
		Metal OD	Rubber OD	Metal OD	Rubber OD
Up to 2.000	+/- .001	.005	.008	+/- .002	+/- .003
2.001 to 3.000	+/- .001	.0055	.010	+/- .0025	+/- .003
3.001 to 5.000	+/- .0015	.0065	.0105	+/- .003	+/- .003
5.001 to 7.000	+/- .0015	.007	.012	+/- .003	+/- .004
7.001 to 12.000	+/- .002	.0085	.0125	+/- .0035	+/- .004
12.001 to 20.000	+/- .003	.012	.015	+/- .005	+/- .005
20.001 to 40.000	+/- .004	.013	.018	+/- .005	+/- .006
40.001 to 60.000	+/- .006	.016	.020	+/- .006	+/- .007

## Millimeters

Bore Diameter	(ISO/H8) Bore Tolerance	Seal OD Diameter Tolerance	
		Metal Case	Rubber Covered
6 to 10	+0.022 -0.000	+0.200 +0.080	+0.300 +0.150
11 to 18	+0.027 -0.000	+0.200 +0.080	+0.300 +0.150
19 to 30	+0.033 -0.000	+0.200 +0.080	+0.300 +0.150
31 to 50	+0.039 -0.000	+0.200 +0.080	+0.300 +0.150
51 to 80	+0.046 -0.000	+0.230 +0.090	+0.350 +0.200
81 to 120	+0.054 -0.000	+0.250 +0.010	+0.350 +0.200
121 to 180	+0.063 -0.000	+0.280 +0.120	+0.450 +0.250
181 to 250	+0.072 -0.000	+0.350 +0.150	+0.450 +0.250
251 to 300	+0.081 -0.000	+0.350 +0.150	+0.450 +0.250
301 to 315	+0.081 -0.000	+0.450 +0.200	+0.550 +0.300
316 to 400	+0.089 -0.000	+0.450 +0.200	+0.550 +0.300
401 to 500	+0.097 -0.000	+0.450 +0.200	+0.550 +0.300
501 to 630	+0.110 -0.000	+0.510 +0.220	+0.650 +0.350
631 to 800	+0.125 -0.000	+0.510 +0.240	+0.750 +0.400
801 to 1000	+0.140 -0.000	+0.560 +0.250	+0.850 +0.450
1001 to 1250	+0.165 -0.000	+0.610 +0.270	+1.000 +0.550
1251 to 1600	+0.195 -0.000	+0.660 +0.310	+1.000 +0.550