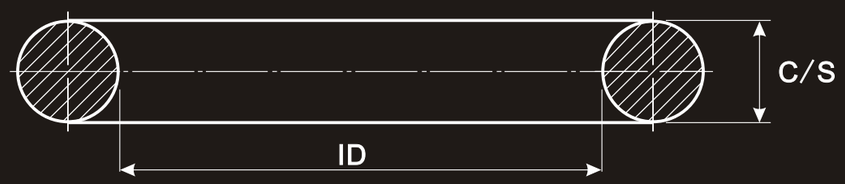
O-Ring

O-ring is mainly used in fluid static application (For example, water, oil, air, chemicals solvent, chemicals, etc.) . The temperature range is from -60 ℃ up to 220 ℃. The pressure in static application should be less than 20MPa, which varies with different materials. Sometimes O-ring is used in dynamic application with the pressure less than 5MPa and also used in semi-conductor vacuum seal.



Size indication & tolerance chart

Escort Seal

GB/T3452.1-2005

ID	Tol (±)	ID	Tol (±)	ID	Tol (±)	ID	Tol (±)
0 - 1.79	0.12	71.01 - 73.00	0.64	206.01 - 212.00	1.57	425.01 - 429.00	2.96
1.80 - 2.80	0.13	73.01 - 75.00	0.65	212.01 - 218.00	1.61	429.01 - 433.00	2.99
2.81 - 4.00	0.14	75.01 - 77.50	0.67	218.01 - 224.00	1.65	433.01 - 437.00	3.01
4.01 - 5.30	0.15	77.51 - 80.00	0.69	224.01 - 227.00	1.67	437.01 - 443.00	3.05
5.31 - 7.10	0.16	80.01 - 82.50	0.71	227.01 - 230.00	1.69	443.01 - 450.00	3.09
7.11 - 8.50	0.17	82.51 - 85.00	0.72	230.01 - 236.00	1.73	450.01 - 456.00	3.13
8.51 - 9.75	0.18	85.01 - 87.50	0.74	236.01 - 239.00	1.75	456.01 - 462.00	3.17
9.76 - 11.80	0.19	87.51 - 90.00	0.76	239.01 - 243.00	1.77	462.01 - 466.00	3.19
11.81 - 13.20	0.21	90.01 - 92.50	0.77	243.01 - 250.00	1.82	466.01 - 470.00	3.22
13.21 - 15.00	0.22	92.51 - 95.00	0.79	250.01 - 254.00	1.84	470.01 - 475.00	3.25
15.01 - 16.00	0.23	95.01 - 97.50	0.81	254.01 - 258.00	1.87	475.01 - 479.00	3.28
16.01 - 17.00	0.24	97.51 - 100.00	0.82	258.01 - 261.00	1.89	479.01 - 483.00	3.30
17.01 - 19.00	0.25	100.01 - 103.00	0.85	261.01 - 265.00	1.91	483.01 - 487.00	3.33
19.01 - 20.60	0.26	103.01 - 106.00	0.87	265.01 - 268.00	1.92	487.01 - 493.00	3.36
20.61 - 21.20	0.27	106.01 - 109.00	0.89	268.01 - 272.00	1.96	493.01 - 500.00	3.41
21.21 - 22.40	0.28	109.01 - 112.00	0.91	272.01 - 276.00	1.98	500.01 - 508.00	3.46
22.41 - 23.60	0.29	112.01 - 115.00	0.93	276.01 - 280.00	2.01	508.01 - 515.00	3.50
23.61 - 25.00	0.30	115.01 - 118.00	0.95	280.01 - 283.00	2.03	515.01 - 523.00	3.55
25.01 - 26.50	0.31	118.01 - 122.00	0.97	283.01 - 286.00	2.05	523.01 - 530.00	3.60
26.51 - 28.00	0.32	122.01 - 125.00	0.99	286.01 - 290.00	2.08	530.01 - 538.00	3.65
28.01 - 29.00	0.33	125.01 - 128.00	1.01	290.01 - 295.00	2.11	538.01 - 545.00	3.69
29.01 - 30.00	0.34	128.01 - 132.00	1.04	295.01 - 300.00	2.14	545.01 - 553.00	3.74
30.01 - 31.50	0.35	132.01 - 136.00	1.07	300.01 - 303.00	2.16	553.01 - 560.00	3.78
31.51 - 33.50	0.36	136.01 - 140.00	1.09	303.01 - 307.00	2.19	560.01 - 570.00	3.85
33.51 - 34.50	0.37	140.01 - 142.50	1.11	307.01 - 311.00	2.21	570.01 - 580.00	3.91
34.51 - 36.50	0.38	142.51 - 145.00	1.13	311.01 - 315.00	2.24	580.01 - 590.00	3.97
36.51 - 37.50	0.39	145.01 - 147.50	1.14	315.01 - 320.00	2.27	590.01 - 600.00	4.03
37.51 - 38.70	0.40	147.51 - 150.00	1.16	320.01 - 325.00	2.30	600.01 - 608.00	4.08
38.71 - 40.00	0.41	150.01 - 152.50	1.18	325.01 - 330.00	2.33	608.01 - 615.00	4.12
40.01 - 41.20	0.42	152.51 - 155.00	1.19	330.01 - 335.00	2.36	615.01 - 623.00	4.17
41.21 - 42.50	0.43	155.01 - 157.50	1.21	335.01 - 340.00	2.40	623.01 - 630.00	4.22
42.51 - 45.00	0.44	157.51 - 160.00	1.23	340.01 - 345.00	2.43	630.01 - 640.00	4.28
45.01 - 46.20	0.45	160.01 - 162.50	1.24	345.01 - 350.00	2.46	640.01 - 650.00	4.34
46.21 - 47.50	0.46	162.51 - 165.00	1.26	350.01 - 355.00	2.49	650.01 - 660.00	4.40
47.51 - 48.70	0.47	165.00 - 167.50	1.28	355.01 - 360.00	2.52	660.01 - 670.00	4.47
48.71 - 50.00	0.48	167.51 - 170.00	1.29	360.01 - 365.00	2.56		
50.01 - 51.50	0.49	170.01 - 172.50	1.31	365.01 - 370.00	2.59		
51.51 - 53.00	0.50	172.51 - 175.00	1.33	370.01 - 375.00	2.62		
53.01 - 54.50	0.51	175.01 - 177.50	1.34	375.01 - 379.00	2.64		
54.51 - 56.00	0.52	177.51 - 180.00	1.36	379.01 - 383.00	2.67		
56.01 - 58.00	0.54	180.01 - 182.50	1.38	383.01 - 387.00	2.70		
58.01 - 60.00	0.55	182.51 - 185.00	1.39	387.01 - 391.00	2.72		
60.01 - 61.50	0.56	185.01 - 187.50	1.41	391.01 - 395.00	2.75		
61.51 - 63.00	0.57	187.51 - 190.00	1.43	395.01 - 400.00	2.78		
63.01 - 65.00	0.58	190.01 - 195.00	1.46	400.01 - 406.00	2.82		
65.01 - 67.00	0.60	195.01 - 200.00	1.49	406.01 - 412.00	2.85		
67.01 - 69.00	0.61	200.01 - 203.00	1.51	412.01 - 418.00	2.89		
69.01 - 71.00	0.63	203.01 - 206.00	1.53	418.01 - 425.00	2.93		

C/S	Tol (±)
0 - 1.79	0.07
1.80 - 2.64	0.08
2.65 - 3.54	0.09
3.55 - 5.29	0.10
5.30 - 6.99	0.13
7.00 - 8.00	0.15
8.01 - 10.00	0.20
10.01 - 15.00	0.25
15.01 - 25.00	0.35
25.01 - 100.00	0.45

ID>670mm TOL=0.64%