



# Imperial external Circlips

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
0.125	0.112		0.010	±0.001
0.156	0.142		0.010	
0.188	0.168		0.015	
0.197	0.179	+0.002	0.015	
0.219	0.196	-0.004	0.015	
0.236	0.215		0.015	
0.250	0.225		0.025	
0.276	0.250		0.025	
0.281	0.256		0.025	
0.312	0.281		0.025	
0.344	0.309		0.025	
0.354	0.320		0.025	
0.375	0.338	+0.002	0.025	
0.394	0.354	-0.005	0.025	
0.406	0.366		0.025	
0.438	0.395		0.025	
0.469	0.428		0.025	
0.500	0.461		0.035	
0.551	0.509		0.035	±0.002
0.561	0.521		0.035	
0.594	0.550		0.035	
0.625	0.579		0.035	
0.672	0.621		0.035	
0.688	0.635		0.042	
0.750	0.693	+0.005	0.042	
0.781	0.722	-0.010	0.042	
0.812	0.751		0.042	
0.875	0.810		0.042	
0.938	0.867		0.042	
0.984	0.910		0.042	
1.000	0.925		0.042	
1.023	0.946		0.042	
1.062	0.982	+0.010	0.050	
		-0.015		

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
1.125	1.041		0.050	
1.118	1.098		0.050	
1.250	1.156		0.050	
1.312	1.214	+0.010	0.050	±0.002
1.375	1.272	-0.015	0.050	
1.438	1.333		0.050	
1.500	1.387		0.050	
1.562	1.446		0.062	
1.625	1.503		0.062	
1.688	1.560		0.062	
1.750	1.618		0.062	
1.772	1.618	+0.013	0.062	
1.812	1.675	-0.020	0.062	
1.875	1.735		0.062	
1.968	1.819		0.062	
2.000	1.850		0.062	
2.062	1.906		0.062	
2.125	1.964		0.078	
2.156	1.993		0.078	
2.250	2.081	+0.015	0.078	±0.003
2.312	2.139	-0.025	0.078	
2.375	2.197		0.078	
2.438	2.255		0.078	
2.500	2.313		0.078	
2.559	2.377		0.078	
2.625	2.428		0.078	
2.688	2.485		0.078	
2.750	2.543		0.093	
2.875	2.659	+0.020	0.093	
2.938	2.717	-0.030	0.093	
3.000	2.775		0.093	
3.062	2.832		0.093	
3.125	2.892		0.093	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
3.125	2.892		0.093	
3.156	2.920		0.093	
3.250	3.006		0.093	
3.346	3.092		0.093	
3.438	3.179		0.093	
3.500	3.237		0.109	
3.543	3.277		0.109	
3.625	3.352		0.109	
3.688	3.410	+0.020	0.109	±0.003
3.750	3.468	-0.030	0.109	
3.875	3.584		0.109	
3.938	3.642		0.109	
4.000	3.700		0.109	
4.250	3.989		0.109	
4.375	4.106		0.109	
4.500	4.223		0.109	
4.750	4.458		0.109	
5.000	4.692		0.109	
5.250	4.927		0.125	
5.500	5.162	+0.020	0.125	±0.004
5.750	5.396	-0.040	0.125	
6.000	5.631		0.125	
6.250	5.866		0.156	
6.500	6.100	+0.020	0.156	
6.750	6.335	-0.050	0.156	
7.000	6.570		0.156	
7.500	7.039		0.187	±0.005
8.000	7.508		0.187	
8.500	7.977	+0.020	0.187	
9.000	8.445	-0.100	0.187	
9.500	8.915		0.187	
10.000	9.385		0.187	



# Imperial Internal Circlips

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
0.250	0.280		0.015	
0.312	0.346		0.015	
0.375	0.415		0.025	
0.438	0.482		0.025	
0.453	0.498		0.025	
0.500	0.548	+0.010	0.035	
0.512	0.560	-0.005	0.035	
0.562	0.620		0.035	
0.625	0.694		0.035	
0.658	0.763		0.035	
0.750	0.831		0.035	
0.777	0.859		0.042	
0.812	0.901		0.042	
0.866	0.961		0.042	
0.875	0.971		0.042	±0.002
0.901	1.000	+0.015	0.042	
0.938	1.041	-0.010	0.042	
1.000	1.111		0.042	
1.023	1.136		0.042	
1.062	1.180		0.050	
1.125	1.249		0.050	
1.188	1.319		0.050	
1.250	1.388		0.050	
1.312	1.456	+0.025	0.050	
1.375	1.526	-0.020	0.050	
1.438	1.596		0.050	
1.456	1.616		0.050	
1.500	1.660		0.050	
1.562	1.734		0.062	
1.625	1.780	+0.035	0.062	±0.003
1.653	1.835	-0.025	0.062	
1.688	1.874		0.062	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
1.750	1.942		0.062	
1.812	2.012		0.062	
1.850	2.054	+0.035	0.062	
1.875	2.072	-0.025	0.062	
1.938	2.141		0.062	
2.000	2.210		0.062	
2.062	2.280		0.078	
2.125	2.350		0.078	
2.188	2.415		0.078	
2.250	2.490		0.078	
2.312	2.560		0.078	
2.375	2.630		0.078	
2.440	2.702	+0.040	0.078	
2.500	2.775	-0.030	0.078	
2.562	2.844		0.093	
2.625	2.910		0.093	
2.688	2.980		0.093	±0.003
2.750	3.050		0.093	
2.812	3.121		0.093	
2.875	3.191		0.093	
3.000	3.325		0.093	
3.032	3.418		0.109	
3.125	3.488		0.109	
3.149	3.523		0.109	
3.250	3.623		0.109	
3.346	3.734	±0.055	0.109	
3.469	3.857		0.109	
3.500	3.890		0.109	
3.543	3.936		0.109	
3.625	4.024		0.109	
3.750	4.157	±0.065	0.109	
3.875	4.291		0.109	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
3.938	4.358		0.109	
4.000	4.424		0.109	
4.125	4.558		0.109	
4.250	4.691		0.109	
4.331	4.756		0.109	±0.003
4.500	4.940		0.109	
4.625	5.076	±0.065	0.109	
4.750	5.213		0.109	
5.000	5.485		0.109	
5.250	5.770		0.125	
5.375	5.910		0.125	
5.500	6.066		0.125	±0.004
5.750	6.336		0.125	
6.000	6.620		0.125	
6.250	6.895		0.156	
6.500	7.170		0.156	
6.662	7.308	±0.080	0.156	
6.750	7.445		0.156	
7.000	7.720		0.156	
7.250	8.270		0.187	
7.500	8.545		0.187	
8.000	8.820		0.187	
8.250	9.095		0.187	±0.005
8.500	9.285		0.187	
8.750	9.558	±0.090	0.187	
9.000	9.830		0.187	
9.250	10.102		0.187	
9.500	10.375		0.187	
9.750	10.648		0.187	
10.000	10.920		0.187	



# Metric external Circlips

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
3	2.70		0.40	
4	3.70	+0.04	0.40	
5	4.70	-0.15	0.60	
6	5.60		0.70	-0.05
7	6.50		0.80	
8	7.40	+0.06	0.80	
9	8.40	-0.18	1.00	
10	9.30		1.00	
11	10.20		1.00	
12	11.00		1.00	
13	11.90		1.00	
14	12.90	+0.10	1.00	
15	13.80	-0.36	1.00	
16	14.70		1.00	
17	15.70		1.00	
18	16.50		1.20	
19	17.50		1.20	
20	18.50		1.20	-0.06
21	19.50	+0.13	1.20	
22	20.50	-0.42	1.20	
23	21.50		1.20	
24	22.20		1.20	
25	23.20		1.20	
26	24.20		1.20	
27	24.90		1.20	
28	25.90	+0.21	1.20	
29	26.90	-0.42	1.50	
30	27.90		1.50	
31	28.60		1.50	
32	29.60		1.50	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
33	30.50		1.50	
34	31.50		1.50	
35	32.20		1.50	
36	33.20	+0.25	1.75	
37	34.20	-0.50	1.75	
38	35.20		1.75	
39	36.00		1.75	
40	36.50		1.75	-0.06
41	37.50		1.75	
42	37.50		1.75	
44	40.50		1.75	
45	41.50		1.75	
46	42.50	+0.39	1.75	
47	43.50	-0.90	1.75	
48	44.50		1.75	
50	45.80		2.00	
52	47.80		2.00	
54	49.80		2.00	
55	50.80		2.00	
56	51.80		2.00	
57	52.80		2.00	
58	53.80		2.00	
60	55.80		2.00	-0.07
62	57.80	+0.46	2.00	
63	58.80	-1.10	2.00	
65	60.80		2.50	
67	62.50		2.50	
68	63.50		2.50	
70	65.50		2.50	
72	67.50		2.50	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
75	70.50		2.50	
77	72.50		2.50	
78	73.50	+0.46	2.50	-0.07
80	74.50	-1.10	2.50	
82	76.50		2.50	
85	79.50		3.00	
87	81.50		3.00	
88	82.50		3.00	
90	84.50		3.00	-0.08
92	86.50		3.00	
95	89.50		3.00	
97	91.50		3.00	
98	91.50		3.00	
100	94.50		3.00	
102	95.00		3.00	
105	98.00		3.00	
107	100.00	+0.54	4.00	
108	100.00	-1.30	4.00	
110	103.00		4.00	
112	105.00		4.00	
115	108.00		4.00	
117	110.00		4.00	-0.10
118	110.00		4.00	
120	113.00		4.00	
122	115.00		4.00	
125	118.00		4.00	
127	120.00		4.00	
128	120.00		4.00	
130	123.00	+0.63	4.00	
132	125.00	-1.50	4.00	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
135	128.00		4.00	
137	130.00		4.00	
138	130.00		4.00	
140	133.00		4.00	
142	135.00		4.00	
145	138.00		4.00	
147	140.00		4.00	
148	140.00		4.00	
150	142.00		4.00	
152	143.00		4.00	
155	146.00		4.00	
157	148.00		4.00	
158	148.00		4.00	
160	151.00	+0.63	4.00	
162	152..5	-1.50	4.00	
165	155.50		4.00	-0.10
167	157.50		4.00	
168	157.50		4.00	
170	160.50		4.00	
172	160.50		4.00	
175	165.50		4.00	
177	167.50		4.00	
178	167.50		4.00	
180	170.50		4.00	
182	170.50		4.00	
185	175.50		4.00	
187	177.50		4.00	
188	177.50		4.00	
190	180.50	+0.72	4.00	
192	180.50	-1.70	4.00	



# Metric external Circlips

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
195	187.50		4.00	
197	187.50		4.00	
198	187.50		4.00	-0.10
200	190.50		4.00	
202	190.00		5.00	
205	193.00		5.00	
207	193.00		5.00	
208	193.00		5.00	
210	198.00		5.00	
212	198.00		5.00	
215	203.00		5.00	
217	203.00		5.00	
218	203.00		5.00	
220	208.00		5.00	
222	208.00	+0.72	5.00	
225	213.00	-1.70	5.00	
227	213.00		5.00	-0.12
228	213.00		5.00	
230	218.00		5.00	
232	218.00		5.00	
235	223.00		5.00	
237	223.00		5.00	
238	223.00		5.00	
240	228.00		5.00	
242	228.00		5.00	
245	233.00		5.00	
247	233.00		5.00	
248	233.00		5.00	
250	238.00		5.00	
252	238.00		5.00	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
255	240.00		5.00	
257	240.00		5.00	
258	240.00		5.00	
260	245.00	+0.72	5.00	
262	245.00	-1.70	5.00	
265	250.00		5.00	
267	250.00		5.00	
268	250.00		5.00	
270	255.00		5.00	
272	255.00		5.00	
275	260.00		5.00	
277	260.00		5.00	-0.12
278	260.00		5.00	
280	265.00		5.00	
282	265.00		5.00	
285	270.00		5.00	
287	270.00		5.00	
288	270.00		5.00	
290	275.00	+0.81	5.00	
292	275.00	-2.00	5.00	
295	280.00		5.00	
297	280.00		5.00	
298	280.00		5.00	
300	285.00		5.00	
305	285.00		6.00	
310	293.00		6.00	
315	298.00		6.00	-0.15
320	303.00		6.00	
325	308.00		6.00	
330	313.00		6.00	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
335	318.00		6.00	
340	323.00		6.00	
345	328.00		6.00	
350	333.00		6.00	
355	338.00		6.00	
360	343.00		6.00	
365	348.00		6.00	
370	353.00	+0.90	6.00	
375	358.00	-2.00	6.00	
380	363.00		6.00	
385	368.00		6.00	
390	373.00		6.00	
395	378.00		6.00	
400	383.00		6.00	
410	390.00		7.00	-0.15
420	400.00		7.00	
430	410.00		7.00	
440	420.00		7.00	
450	430.00		7.00	
460	440.00		7.00	
470	450.00	+1.00	7.00	
480	460.00	-2.00	7.00	
490	470.00		7.00	
500	480.00		7.00	
510	485.00		8.00	
520	495.00		8.00	
530	505.00		8.00	
540	515.00	+1.50	8.00	
550	525.00	-3.00	8.00	
560	535.00		8.00	

Shaft size	Circlip ID	Tolerance	Thickness	Tolerance
570	545.00		8.00	
580	555.00		8.00	
590	565.00		8.00	-0.15
600	575.00	+1.50	8.00	
650	620.00	-3.00	9.00	
700	670.00		9.00	
750	715.00		9.00	
800	765.00		9.00	-0.20
850	810.00		9.00	
900	860.00	+2.00	9.00	
950	900.00	-4.00	9.00	
1000	950.00		9.00	



# Metric Internal Circlips

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
8	8.70		0.80	-0.05
9	9.80		0.80	
10	10.80		1.00	
11	11.80		1.00	
12	13.00	+0.36 -0.10	1.00	
13	14.10		1.00	
14	15.10		1.00	
15	16.20		1.00	
16	17.30		1.00	
17	18.30		1.00	
18	19.50		1.00	
19	20.50		1.00	
20	21.50	+0.42 -0.13	1.00	
21	22.50		1.00	
22	23.50		1.00	
23	24.60		1.20	-0.06
24	25.90		1.20	
25	26.90		1.20	
26	27.90	+0.42 -0.21	1.20	
27	29.10		1.20	
28	30.10		1.20	
29	31.10		1.20	
30	32.10		1.20	
31	33.40		1.20	
32	34.40	+0.50 -0.25	1.20	
33	35.50		1.20	
34	36.50		1.50	
35	37.80		1.50	
36	38.80		1.50	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
37	39.80	+0.50 -0.25	1.50	
38	40.80		1.50	
39	42.00		1.50	
40	43.50		1.75	
41	44.50		1.75	
42	45.50	+0.90 -0.39	1.75	-0.06
43	46.50		1.75	
44	47.50		1.75	
45	48.50		1.75	
46	49.50		1.75	
47	50.50		1.75	
48	51.50		1.75	
50	54.20		2.00	
51	55.20		2.00	
52	56.20		2.00	
53	57.20		2.00	
54	58.20		2.00	
55	59.20		2.00	
56	60.20		2.00	
57	61.20	+1.10 -0.46	2.00	-0.07
58	62.20		2.00	
60	64.20		2.00	
62	66.20		2.00	
63	67.20		2.00	
64	68.20		2.00	
65	69.20		2.50	
67	71.50		2.50	
68	72.50		2.50	
70	74.50		2.50	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
72	76.50	+1.10 -0.46	2.50	
75	49.50		2.50	
77	82.50		2.50	
78	82.50		2.50	-0.07
80	85.50		2.50	
81	86.50		2.50	
82	87.50		2.50	
83	88.50		2.50	
85	90.50		3.00	
87	93.50		3.00	
88	93.50		3.00	
90	93.50		3.00	
92	97.50	+1.30 -0.54	3.00	-0.08
95	100.50		3.00	
97	103.50		3.00	
98	103.50		3.00	
100	105.50		3.00	
102	108.00		4.00	
105	112.00		4.00	
107	115.00		4.00	
108	115.00		4.00	
110	117.00		4.00	
112	119.00		4.00	-0.10
115	122.00		4.00	
117	125.00		4.00	
118	125.00		4.00	
120	127.00	+1.50 -0.63	4.00	
122	129.00		4.00	
125	132.00		4.00	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
127	135.00		4.00	
128	135.00		4.00	
130	137.00		4.00	
132	139.00		4.00	
135	142.00		4.00	
137	145.00		4.00	
138	145.00		4.00	
140	147.00		4.00	
142	149.00		4.00	
145	152.00		4.00	
147	155.00		4.00	
148	155.00	+1.50 -0.63	4.00	
150	158.00		4.00	
152	161.00		4.00	
155	164.00		4.00	-0.10
157	167.00		4.00	
158	167.00		4.00	
160	169.00		4.00	
162	171.50		4.00	
165	174.50		4.00	
167	177.50		4.00	
168	177.50		4.00	
170	179.50		4.00	
172	181.50		4.00	
175	184.50		4.00	
177	187.50	+1.70 -0.72	4.00	
178	187.50		4.00	
180	189.50		4.00	
182	191.50		4.00	



# Metric Internal Circlips

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
185	194.50		4.00	
187	197.50		4.00	
188	197.50		4.00	
190	199.50		4.00	
192	201.50		4.00	-0.10
195	204.50		4.00	
197	207.50		4.00	
198	207.50		4.00	
200	209.50		4.00	
202	214.00		5.00	
205	217.00	+1.70	5.00	
207	217.00	-0.72	5.00	
208	222.00		5.00	
210	222.00		5.00	
212	222.00		5.00	
215	227.00		5.00	
217	227.00		5.00	
218	232.00		5.00	
220	232.00		5.00	-0.12
222	232.00		5.00	
225	237.00		5.00	
227	237.00		5.00	
228	242.00		5.00	
230	242.00		5.00	
232	242.00		5.00	
235	247.00		5.00	
237	247.00	+2.00	5.00	
238	252.00	-0.81	5.00	
240	252.00		5.00	
242	252.00		5.00	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
245	257.00		5.00	
247	257.00		5.00	
248	262.00		5.00	
250	262.00		5.00	
252	262.00		5.00	
255	270.00		5.00	
257	270.00		5.00	
258	275.00		5.00	
260	275.00		5.00	
262	275.00		5.00	
265	280.00		5.00	
267	280.00		5.00	
268	285.00		5.00	
270	285.00		5.00	
272	285.00	+2.00	5.00	-0.12
275	290.00	-0.81	5.00	
277	290.00		5.00	
278	295.00		5.00	
280	295.00		5.00	
282	295.00		5.00	
285	300.00		5.00	
287	300.00		5.00	
288	305.00		5.00	
290	305.00		5.00	
282	305.00		5.00	
295	310.00		5.00	
297	310.00		5.00	
298	315.00		5.00	
300	315.00		5.00	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
305	322.00		6.00	
310	327.00		6.00	
315	332.00		6.00	
320	337.00		6.00	
325	342.00		6.00	
330	347.00		6.00	
335	352.00		6.00	
340	357.00	+2.00	6.00	
345	362.00	-0.90	6.00	
350	367.00		6.00	
355	372.00		6.00	
360	377.00		6.00	
365	382.00		6.00	
370	387.00		6.00	
375	392.00		6.00	-0.15
380	397.00		6.00	
385	402.00		6.00	
390	407.00		6.00	
395	412.00		6.00	
400	417.00		6.00	
410	430.00		7.00	
420	440.00	+2.00	7.00	
430	450.00	-1.00	7.00	
440	460.00		7.00	
450	470.00		7.00	
460	480.00		7.00	
470	490.00		7.00	
480	500.00		7.00	
490	510.00	+3.00	7.00	
500	520.00	-1.50	7.00	

Bore size	Circlip OD	Tolerance	Thickness	Tolerance
510	535.00		8.00	
520	545.00		8.00	
530	555.00	+3.00	8.00	
540	565.00	-1.50	8.00	
550	575.00		8.00	-0.15
560	585.00		8.00	
570	595.00		8.00	
580	605.00	+3.00	8.00	
590	615.00	-1.50	8.00	
600	625.00		8.00	
650	680.00		9.00	
700	730.00		9.00	
750	785.00		9.00	
800	835.00	+4.00	9.00	-0.20
850	890.00	-2.00	9.00	
900	940.00		9.00	
950	1000.00		9.00	
1000	1050.00		9.00	