



# Metric external Circlips (DIN 471)

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	
228	213.00		5.00	-0.12
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	
278	260.00		5.00	-0.12
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	
320	303.00		6.00	-0.15
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	
420	400.00		7.00	-0.15
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	
850	810.00		9.00	-0.20
900	860.00	+2.00	9.00	
950	900.00	-4.00	9.00	
1000	950.00		9.00	