

Shaft	Circlip Dimensions											Groove Dimensions					
	(T)	Tolerance			Tolerance				(G)	Tolerance							
		(D)	(C)	(B)	(L)	(H)	Fr KN	(W)		(N)	Fr KN						
3	0.40	+0.00	-0.05	2.7	+0.04	-0.15	7.0	0.8	1.9	1.0	0.5	2.8	+0.00	-0.040	0.5	0.3	0.2
4	0.40	+0.00	-0.05	3.7	+0.04	-0.15	8.6	0.9	2.2	1.0	0.5	3.8	+0.00	-0.048	0.5	0.3	0.2
5	0.60	+0.00	-0.05	4.7	+0.04	-0.15	10.3	1.1	2.5	1.0	1.0	4.8	+0.00	-0.048	0.7	0.3	0.3
6	0.70	+0.00	-0.05	5.6	+0.04	-0.15	11.7	1.3	2.7	1.2	1.5	5.7	+0.00	-0.048	0.8	0.5	0.5
7	0.80	+0.00	-0.05	6.5	+0.06	-0.18	13.5	1.4	3.1	1.2	2.6	6.7	+0.00	-0.06	0.9	0.5	0.5
8	0.80	+0.00	-0.05	7.4	+0.06	-0.18	14.7	1.5	3.2	1.2	3.0	7.6	+0.00	-0.06	1.1	0.6	0.8
9	1.00	+0.00	-0.06	8.4	+0.06	-0.18	16.0	1.7	3.3	1.2	3.5	8.6	+0.00	-0.06	1.1	0.6	0.9
10	1.00	+0.00	-0.06	9.3	+0.10	-0.36	17.0	1.8	3.3	1.5	4.0	9.6	+0.00	-0.06	1.1	0.6	1.0
11	1.00	+0.00	-0.06	10.2	+0.10	-0.36	18.0	1.8	3.3	1.5	4.5	10.5	+0.00	-0.11	1.1	0.8	1.4
12	1.00	+0.00	-0.06	11.0	+0.10	-0.36	19.0	1.8	3.3	1.7	5.0	11.5	+0.00	-0.11	1.1	0.8	1.5
13	1.00	+0.00	-0.06	11.9	+0.10	-0.36	20.2	2.0	3.4	1.7	5.8	12.4	+0.00	-0.11	1.1	0.9	2.0
14	1.00	+0.00	-0.06	12.9	+0.10	-0.36	21.4	2.1	3.5	1.7	6.4	13.4	+0.00	-0.11	1.1	0.9	2.2
15	1.00	+0.00	-0.06	13.8	+0.10	-0.36	22.6	2.2	3.6	1.7	6.9	14.3	+0.00	-0.11	1.1	1.1	2.7
16	1.00	+0.00	-0.06	14.7	+0.10	-0.36	23.8	2.2	3.7	1.7	7.4	15.2	+0.00	-0.11	1.1	1.2	3.3
17	1.00	+0.00	-0.06	15.7	+0.10	-0.36	25.0	2.3	3.8	1.7	8.0	16.2	+0.00	-0.11	1.1	1.2	3.5
18	1.20	+0.00	-0.06	16.5	+0.10	-0.36	26.2	2.4	3.9	2.0	17.0	17.0	+0.00	-0.11	1.3	1.5	4.6
19	1.20	+0.00	-0.06	17.5	+0.10	-0.36	27.2	2.5	3.9	2.0	17.0	18.0	+0.00	-0.11	1.3	1.5	4.8
20	1.20	+0.00	-0.06	18.5	+0.13	-0.42	28.4	2.6	4.0	2.0	17.1	19.0	+0.00	-0.21	1.3	1.5	5.1
21	1.20	+0.00	-0.06	19.5	+0.13	-0.42	29.6	2.7	4.1	2.0	16.8	20.0	+0.00	-0.21	1.3	1.5	5.4
22	1.20	+0.00	-0.06	20.5	+0.13	-0.42	30.8	2.8	4.2	2.0	16.9	21.0	+0.00	-0.21	1.3	1.5	5.7
23	1.20	+0.00	-0.06	21.5	+0.13	-0.42	32.0	2.9	4.3	2.0	16.6	22.0	+0.00	-0.21	1.3	1.5	5.9
24	1.20	+0.00	-0.06	22.2	+0.21	-0.42	33.2	3.0	4.4	2.0	16.1	22.9	+0.00	-0.21	1.3	1.7	6.8
25	1.20	+0.00	-0.06	23.2	+0.21	-0.42	34.2	3.0	4.4	2.0	16.2	23.9	+0.00	-0.21	1.3	1.7	7.1
26	1.20	+0.00	-0.06	24.2	+0.21	-0.42	35.5	3.1	4.5	2.0	16.1	24.9	+0.00	-0.21	1.3	1.7	7.3
27	1.20	+0.00	-0.06	24.9	+0.21	-0.42	36.7	3.1	4.6	2.0	16.4	25.6	+0.00	-0.21	1.3	2.1	9.6
28	1.50	+0.00	-0.06	25.9	+0.21	-0.42	37.9	3.2	4.7	2.0	32.1	26.6	+0.00	-0.21	1.6	2.1	10.0
29	1.50	+0.00	-0.06	26.9	+0.21	-0.42	39.1	3.4	4.8	2.0	31.8	27.6	+0.00	-0.21	1.6	2.1	10.4
30	1.50	+0.00	-0.06	27.9	+0.21	-0.42	40.5	3.5	5.0	2.0	32.1	28.6	+0.00	-0.21	1.6	2.1	10.7
31	1.50	+0.00	-0.06	28.6	+0.21	-0.42	41.5	3.5	5.0	2.5	31.5	29.3	+0.00	-0.21	1.6	2.6	13.9
32	1.50	+0.00	-0.06	29.6	+0.21	-0.42	43.0	3.6	5.2	2.5	31.2	30.3	+0.00	-0.25	1.6	2.6	13.9
33	1.50	+0.00	-0.06	30.5	+0.25	-0.50	44.0	3.7	5.2	2.5	31.6	31.3	+0.00	-0.25	1.6	2.6	14.3
34	1.50	+0.00	-0.06	31.5	+0.25	-0.50	45.4	3.8	5.4	2.5	31.3	32.3	+0.00	-0.25	1.6	2.6	14.7
35	1.50	+0.00	-0.06	32.2	+0.25	-0.50	46.8	3.9	5.6	2.5	33.0	33.0	+0.00	-0.25	1.6	3.0	17.8
36	1.75	+0.00	-0.06	33.2	+0.25	-0.50	47.8	4.0	5.6	2.5	34.0	34.0	+0.00	-0.25	1.85	3.0	18.3
37	1.75	+0.00	-0.06	34.2	+0.25	-0.50	49.0	4.1	5.7	2.5	35.0	35.0	+0.00	-0.25	1.85	3.0	18.8
38	1.75	+0.00	-0.06	35.2	+0.25	-0.50	50.2	4.2	5.8	2.5	36.0	36.0	+0.00	-0.25	1.85	3.0	19.3
39	1.75	+0.00	-0.06	36.0	+0.25	-0.50	51.4	4.3	5.9	2.5	37.0	37.0	+0.00	-0.25	1.85	3.8	19.9
40	1.75	+0.00	-0.06	36.5	+0.25	-0.50	52.6	4.4	6.0	2.5	37.5	37.5	+0.00	-0.25	1.85	3.8	25.3
41	1.75	+0.00	-0.06	37.5	+0.25	-0.50	54.1	4.5	6.2	2.5	38.5	38.5	+0.00	-0.25	1.85	3.8	26.0
42	1.75	+0.00	-0.06	38.5	+0.39	-0.90	55.7	4.5	6.5	2.5	39.5	39.5	+0.00	-0.25	1.85	3.8	26.7
43	1.75	+0.00	-0.06	39.5	+0.39	-0.90	56.7	4.6	6.5	2.5	40.5	40.5	+0.00	-0.25	1.85	3.8	27.3
44	1.75	+0.00	-0.06	40.5	+0.39	-0.90	57.9	4.6	6.6	2.5	41.5	41.5	+0.00	-0.25	1.85	3.8	28.0
45	1.75	+0.00	-0.06	41.5	+0.39	-0.90	59.1	4.7	6.7	2.5	42.5	42.5	+0.00	-0.25	1.85	3.8	28.1
46	1.75	+0.00	-0.06	42.5	+0.39	-0.90	60.1	4.8	6.7	2.5	43.5	43.5	+0.00	-0.25	1.85	3.8	29.0
47	1.75	+0.00	-0.06	43.5	+0.39	-0.90	61.3	4.9	6.8	2.5	44.5	44.5	+0.00	-0.25	1.85	3.8	30.0
48	1.75	+0.00	-0.06	44.5	+0.39	-0.90	62.5	5.0	6.9	2.5	45.5	45.5	+0.00	-0.25	1.85	3.8	30.1
50	2.00	+0.00	-0.07	45.8	+0.39	-0.90	64.5	5.1	6.9	2.5	47.0	47.0	+0.00	-0.25	2.15	4.5	38.0
51	2.00	+0.00	-0.07	46.8	+0.39	-0.90	65.7	5.2	7.0	2.5	48.0	48.0	+0.00	-0.25	2.15	4.5	38.8
52	2.00	+0.00	-0.07	47.8	+0.39	-0.90	66.7	5.2	7.0	2.5	49.0	49.0	+0.00	-0.25	2.15	4.5	39.7
53	2.00	+0.00	-0.07	48.8	+0.39	-0.90	68.0	5.3	7.1	2.5	50.0	50.0	+0.00	-0.25	2.15	4.5	40.4
54	2.00	+0.00	-0.07	49.8	+0.46	-1.10	69.0	5.3	7.1	2.5	51.0	51.0	+0.00	-0.30	2.15	4.5	41.2
55	2.00	+0.00	-0.07	50.8	+0.46	-1.10	70.2	5.4	7.2	2.5	52.0	52.0	+0.00	-0.30	2.15	4.5	42.0
56	2.00	+0.00	-0.07	51.8	+0.46	-1.10	71.6	5.5	7.3	2.5	53.0	53.0	+0.00	-0.30	2.15	4.5	42.8
57	2.00	+0.00	-0.07	52.8	+0.46	-1.10	72.4	5.5	7.3	2.5	54.0	54.0	+0.00	-0.30	2.15	4.5	43.7
58	2.00	+0.00	-0.07	53.8	+0.46	-1.10	73.6	5.6	7.3	2.5	55.0	55.0	+0.00	-0.30	2.15	4.5	44.3
60	2.00	+0.00	-0.07	55.8	+0.46	-1.10	75.6	5.8	7.4	2.5	69.2	57.0	+0.00	-0.30	2.15	4.5	46.0
62	2.00	+0.00	-0.07	57.8	+0.46	-1.10	77.8	6.0	7.5	2.5	69.3	59.0	+0.00	-0.30	2.15	4.5	47.5
63	2.00	+0.00	-0.07	58.8	+0.46	-1.10	79.0	6.2	7.6	2.5	70.2	60.0	+0.00	-0.30	2.15	4.5	48.3
65	2.50	+0.00	-0.07	60.8	+0.46	-1.10	81.4	6.3	7.8	3.0	135.6	62.0	+0.00	-0.30	2.65	4.5	49.8
67	2.50	+0.00	-0.07	62.5	+0.46	-1.10	83.6	6.4	7.9	3.0	136.1	64.0	+0.00	-0.30	2.65	4.5	51.3
68	2.50	+0.00	-0.07	63.5	+0.46	-1.10	84.4	6.5	8.0	3.0	135.9	65.0	+0.00	-0.30	2.65	4.5	52.2
70	2.50	+0.00	-0.07	65.5	+0.46	-1.10	87.0	6.6	8.1	3.0	134.2	67.0	+0.00	-0.30	2.65	4.5	53.8
72	2.50	+0.00	-0.07	67.5	+0.46	-1.10	89.2	6.8	8.2	3.0	131.8	69.0	+0.00	-0.30	2.65	4.5	55.3
75	2.50	+0.00	-0.07	70.5	+0.46	-1.10	92.7	7.0	8.4	3.0	130.0	72.0	+0.00	-0.30	2.65	4.5	57.6
77	2.50	+0.00	-0.07	72.5	+0.46	-1.10	94.9	7.2	8.5	3.0	131.3	74.0	+0.00	-0.30	2.65	4.5	59.3
78	2.50	+0.00	-0.07	73.5	+0.46	-1.10	96.1	7.3	8.6	3.0	131.3	75.0	+0.00	-0.30	2.65	5.3	60.0
80	2.50	+0.00	-0.07	74.5	+0.46	-1.10	98.1	7.4	8.6	3.0	128.4	76.5	+0.00	-0.30	2.65	5.3	71.6
82	2.50	+0.00	-0.07	76.5	+0.46	-1.10	100.3	7.6	8.7	3.0	128.0	78.5	+0.00	-0.30	2.65	5.3	73.5
85	3.00	+0.00	-0.08	79.5	+0.46	-1.10	103.3	7.8	8.7	3.5	215.4	81.5	+0.00	-0.35	3.15	5.3	76.2
87	3.00	+0.00	-0.08	81.5	+0.54	-1.30	105.5	7.9	8.8	3.5	222.2	83.5	+0.00	-0.35	3.15	5.3	78.2
88	3.00	+0.00	-0.08	82.5	+0.54	-1.30	106.5	8.0	8.8	3.5	221.8	84.5	+0.00	-0.35	3.15	5.3	79.0
90	3.00	+0.00	-0.08	84.5	+0.54	-1.30	108.5	8.2	8.8	3.5	217.2	86.5	+0.00	-0.35	3.15	5.3	80.8
92	3.00	+0.00	-0.08	86.5	+0.54	-1.30	111.0	8.4	9.0	3.5	217.0	88.5	+0.00	-0.35	3.15	5.3	82.7
95	3.00	+0.00	-0.08	89.5	+0.54	-1.30	114.8	8.6	9.4	3.5	212.2	91.5	+0.00	-0.35	3.15	5.3	85.5
97	3.00	+0.00	-0.08	91.5	+0.54	-1.30	116.8	8.8	9.4	3.5	211.1	93.5	+0.00	-0.35	3.15	5.3	87.3
98	3.00	+0.00	-0.08	92.5	+0.54	-1.30	118.0	9.0	9.5	3.5	208.1	94.5	+0.00	-0.35	3.15	5.3	88.2
100	3.00	+0.00	-0.08	94.5	+0.54	-1.30	120.0	9.0	9.6	3.5	206.4						