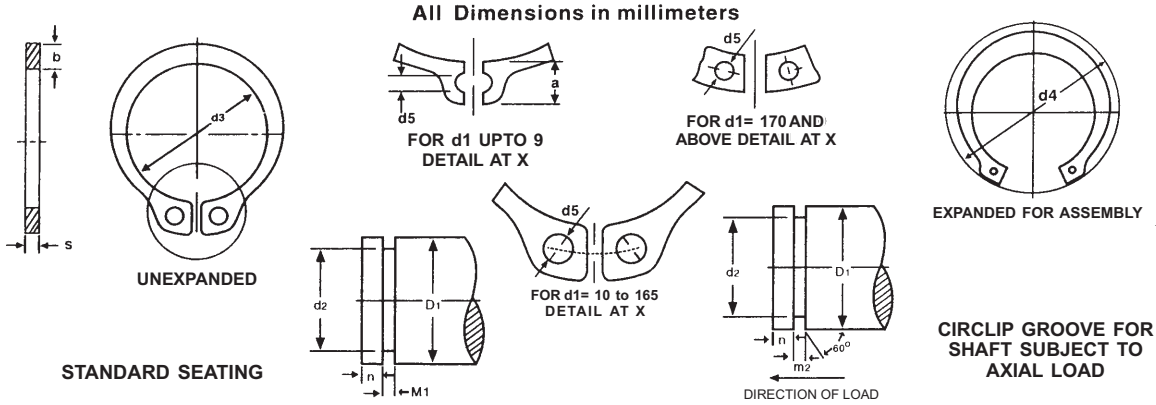
SANJAY ENGINEERING WORKS

EXTERNAL CIRCLIPS DIN : 471 IS : 3075

(LIGHT - SERIES)

All Dimensions in millimeters



Shaft Dia d1	S	Tolerance	a Max	b Approx	d3	Tol ON d 3	d 3 Min	d 4 Ex-panded	d 2	Tol on d2	m1 H13	m2 Min	n Min	Axial Force kgf
3	0.4	+0.03	1.9	0.8	2.7	+0.06 -0.12	0.8	7.2	2.8	h11	0.5	0.6	0.3	23
4			2.2	0.9	3.7	+0.075 -0.15	1	8.8	3.8					30
5	0.6		2.5	1.1	4.7			10.7	4.8		0.7	0.8		38
6	0.7		2.7	1.3	5.6		1.15	12.2	5.7		0.8	0.9	0.45	70
7	0.8		3.1	1.4	6.5	+0.09 -0.18	1.2	13.8	6.7		0.9	1		80
8			3.2	1.5	7.4			15.2	7.6				0.6	120
9	1	+0.04	3.3	1.7	8.4	+0.15 -0.30	1.5	16.4	8.6		1.1	1.2		138
10				1.8	9.3			17.6	9.6					153
11					10.2	+0.18 -0.36	1.7	18.6	10.5				0.75	210
12					11			19.6	11.5					230
13			3.4	2	11.9			20.8	12.4				0.9	300
14			3.5	2.1	12.9			22	13.4					325
15			3.6	2.2	13.8			23.2	14.3				1.1	400
16			3.7		14.7			24.4	15.2				1.2	490
17			3.8	2.3	15.7			25.6	16.2					520
18	1.2		3.9	2.4	16.5		2	26.8	17		1.3	1.4	1.5	690
19				2.5	17.5			27.8	18	h12				725
20			4	2.6	18.5	+0.21 -0.42		29	19					770
21			4.1	2.7	19.5			30.2	20					805
22			4.2	2.8	20.5			31.4	21					845
24			4.4	3	22.2			33.8	22.9				1.7	1 010
25					23.2			34.8	23.9					1 060
26			4.5	3.1	24.2			36	24.9					1 100
28	1.5	+0.05	4.7	3.2	25.9			38.4	26.6		1.6	1.7	2.1	1 500
29			4.8	3.4	26.9			39.6	27.6					1 560
30			5	3.5	27.9			41	28.6					1 620
32			5.2	3.6	29.6		2.5	43.4	30.3				2.6	2 100
34			5.4	3.8	31.5	+0.25 -0.50		45.8	32.3					2 220
35			5.6	3.9	32.2			47.2	33				3	2 670
36	1.75			4	33.2			48.2	34		1.85	2		3 760
38			5.8	4.2	35.2			50.6	36					4 910

EXTERNAL CIRCLIPS

Shaft Dia d1	s h11	Tolerance	a Max	b Approx	d3	Tol ON d 3	d 5 Min	d 4 Ex-panded	d 2	Tol on d2	m1 H13	m2 Min	n Min	Axial Force kgf
40	1.75	± 0.05	6	4.4	36.5	+ 0.39 - 0.78	2.5	53	37.5	h12	1.85	2	3.8	3 810
42			6.5	4.5	38.5			56	39.5					4 000
45			6.7	4.7	41.5			59.4	42.5					4 300
47			6.8	4.8	43.5			61.4	44.5					4 450
48			6.9	5	44.5			62.8	45.5					4 600
50	2	± 0.06	6.9	5.1	45.8			64.8	47		2.15	2.3	4.5	5 700
52			7	5.2	47.8			67	49					5 950
55			7.2	5.4	50.8	+ 0.46 - 0.92		70.4	52					6 300
56			7.3	5.5	51.8			71.6	53					6 400
58				5.6	53.8			73.6	55					6 650
60			7.4	5.8	55.8			75.8	57					6 900
62			7.5	6	57.8			78	59					7 100
63			7.6	6.2	58.8			79.2	60					7 250
65	2.5		7.8	6.3	60.8		3	81.6	62		2.65	2.8		7 500
68			8	6.5	63.5			85	65					7 840
70			8.1	6.6	65.5			87.2	67					8 050
72			8.2	6.8	67.5			89.4	69					8 300
75			8.4	7	70.5			92.8	72					8 600
78			8.6	7.3	73.5			96.2	75					9 000
80				7.4	74.5			98.2	76.5				5.3	10 700
82			8.7	7.6	76.5			101	78.5					11 000
85	3	± 0.07		7.8	79.5		3.5	104	81.5		3.15	3.3		11 400
88			8.8	8	82.5	+ 0.54 - 1.08		107	84.5					11 900
90				8.2	84.5			109	86.5					12 100
95			9.4	8.6	89.5			115	91.5					12 800
100			9.6	9	94.5			121	96.5					13 500
105	4	± 0.08	9.9	9.3	98			126	101	h13	4.15	4.3	6	16 200
110			10.1	9.6	103			132	106					17 000
115			10.6	9.8	108			138	111					17 800
120			11	10.2	113			143	116					18 500
125			11.4	10.4	118		4	149	121					19 300
130			11.6	10.7	123	+ 0.63 - 1.26		155	126					20 100
135			11.8	11	128			160	131					20 900
140			12	11.2	133			165	136					21 700
145			12.2	11.5	138			171	141					22 500
150			13	11.8	142			177	145				7.5	28 900
155				12	146			182	150					30 000
160			13.3	12.2	151			188	155					31 000
165			13.5	12.5	155.5			193	160					32 000
170				12.9 *Max*	160.5			197	165					32 900
175					165.5			202	170					33 800
180			14.2	13.5 *Max*	170.5			208	175					34 800
185					175.5			213	180					33 800
190				14.8 *Max*	180.5	+ 0.72 - 1.44		219	185					33 500
195					185.5			224	190					32 700
200					190.5			229	195					31 900
210	5	± 0.09			198			239	204		5.15	5.3	9	48 800
220					208			249	214					51 200
230					218			259	224					53 500
240					228			269	234					52 900
250					238			279	244					50 300
260			16.2	16 *Max*	245		5	293	252				12	54 400
270					255	+ 0.81 - 1.62		303	262					52 500
280					265			313	272					50 800
290					275			323	282					49 100
300					285			333	292					47 300

Material: Spring steel HRC = 47 to 52 or HV = 480 to 558 kp / mm2 up to 38 mm bore diameter
HRC = 44 to 49 or HV = 440 to 510 kp / mm2 from 40 to 200 mm bore diameter
HRC = 40 to 45 or HV = 392 to 453 kp / mm2 from 210 to 300 mm bore diameter