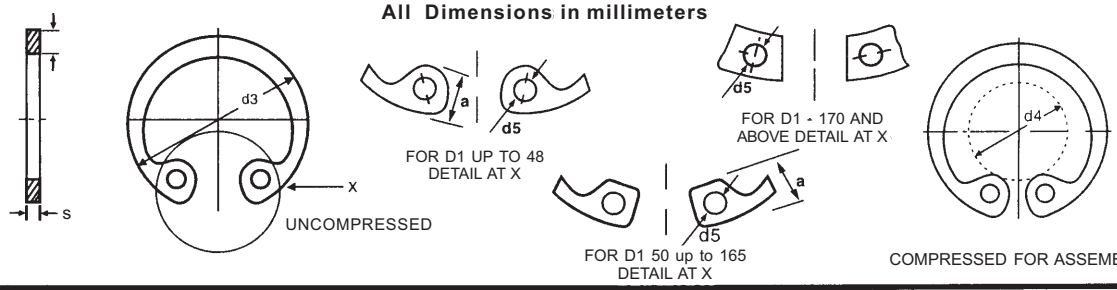
SANJAY ENGINEERING WORKS

INTERNAL CIRCLIPS DIN :472 IS : 3075

(LIGHT - SERIES)

All Dimensions in millimeters



Bore Dia d1	S h11	Tolerance	INTERNAL CIRCLIPS											
			a Max	b Approx	d3	Tol ON d 3	d 5 Min	d 4 Comp-ressed	d 2	*Tol on d2*	m1 H13	m2 Min	n Min	*Axial Force kgf*
8	0.8	+0.03	2.4	1.1	8.7	+ 0.36 - 0.18	1	2.8	8.4	H11	0.9	1	0.6	128
9			2.5	1.3	9.8			3.5	9.4					144
10	1	+0.04	3.2	1.4	10.8		1.2	3.1	10.4		1.1	1.2		160
11			3.3	1.5	11.8			3.9	11.4					176
12			3.4	1.7	13		1.5	4.7	12.5				0.75	240
13			3.6	1.8	14.1			5.3	13.6				0.9	314
14			3.7	1.9	15.1		1.7	6	14.6					336
15				2	16.2			7	15.7				1.1	422
16			3.8		17.3			7.7	16.8				1.2	515
17			3.9	2.1	18.3	+ 0.42 - 0.21		8.4	17.8					547
18			4.1	2.2	19.5		2	8.9	19				1.5	725
19					20.5			9.8	20	H12				764
20			4.2	2.3	21.5			10.6	21					805
21				2.4	22.5			11.6	22					845
22				2.5	23.5			12.6	23					882
24	1.2		4.4	2.6	25.9			14.2	25.2		1.3	1.4	1.8	1160
25			4.5	2.7	26.9			15	26.2					1200
26			4.7	2.8	27.9			15.6	27.2					1250
28			4.8	2.9	30.1	+ 0.50 - 0.25		17.4	29.4				2.1	1580
30				3	32.1			19.4	31.4					1690
31			5.2	3.2	33.4			19.6	32.7				2.6	1700
32			5.4		34.4		2.5	20.2	33.7					2200
33					35.4			21.2	34.7					2280
34	1.5	+0.05		3.3	36.5			22.2	35.7		1.6	1.7	3	2320
35				3.4	37.8			23.2	37					2820
36				3.5	38.8			24.2	38					2900
37			5.5	3.6	39.8			25	39					2980
38				3.7	40.8			26	40					3070
40	1.75		5.8	3.9	43.5	+ 0.78 - 0.39		27.4	42.5		1.85	2	3.8	4050
42			5.9	4.1	45.5			29.2	44.5					4250
45			6.2	4.3	48.5			31.6	47.5					4520
47			6.4	4.4	50.5	+ 0.92 - 0.46		33.2	49.5					4720
48				4.5	51.5			34.6	50.5					4820
50	2	+0.06	6.5	4.6	54.2			36	53					6070
52			6.7	4.7	56.2			37.6	55					6300
55			6.8	5	59.2			40.4	58					6650
56				5.1	60.2			41.4	59					6750

INTERNAL CIRCLIPS

Bore Dia d1	S h11	Tolerance	a Max	b Approx	d3	Tol ON d3	d 5 Min	d 4 Compressed	d 2	Tol on d2	m1 H13	m2 Min	n Min	Axial Force kgf
58	2	± 0.06	6.9	5.2	62.2	+ 0.92 - 0.46	2.5	43.2	61	H12	2.15	2.3	4.5	7 000
60			7.3	5.4	64.2			44.4	63					7 250
62				5.5	66.2			46.4	65					7 480
63				5.6	67.2			47.4	66					7 580
65	2.5		7.6	5.8	69.2		3	48.8	68		2.65	2.8		7 820
68			7.8	6.1	72.5			51.4	71					8 170
70				6.2	74.5			53.4	73					8 420
72				6.4	76.5			55.4	75					8 650
75				6.6	79.5			58.4	78					9 000
78			8.5	6.8	82.5	+ 1.08 - 0.54		60	81					9 350
80				7	85.5			62	83.5				5.3	11 200
82					87.5			64	85.5					11 500
85	3	± 0.07	8.6	7.2	90.5		3.5	66.8	88.5		3.15	3.3		11 900
88				7.4	93.5			69.8	91.5					12 300
90				7.6	95.5			71.8	93.5					12 600
92			8.7	7.8	97.5			73.6	95.5					12 900
95			8.8	8.1	100.5			76.4	98.5					13 300
98			9	8.3	103.5			79	101.5					13 700
100				8.4	105.5			81	103.5					14 000
102	4	± 0.08	9.2	8.5	108			82.6	106	H13	4.15	4.3	6	16 300
105				8.7	112			85.6	109					16 800
108			9.5	8.9	115			88	112					17 300
110			10.4	9	117			88.2	114					17 600
112			10.5	9.1	119			90	116					17 900
115				9.3	122	+ 1.26 - 0.63		93	119					18 400
120			11	9.7	127			97	124					19 200
125				10	132			102	129					19 900
130				10.2	137			107	134					20 700
135			11.2	10.5	142			112	139					21 500
140				10.7	147			117	144					22 300
145			11.4	10.9	152			122	149					23 100
150			12	11.2	158			125	155				7.5	30 000
155				11.4	164			130	160					30 900
160			13	11.6	169			133	165					31 900
165				11.8	174.5			138	170					32 900
170			13.5	12.2 *Max*	179.5			145	175					33 900
175				12.7 *Max*	184.5	+ 1.44 - 0.72	4	149	180					34 300
180			14.2	13.2 *Max*	189.5			153	185					34 500
185				13.7 *Max*	194.5			157	190					35 000
190				13.8 *Max*	199.5			162	195					34 000
195					204.5			167	200					33 000
200					209.5			171	205					32 500
210	5	± 0.09	15.2	15 *Max*	222			181	216		5.15	5.3	9	49 800
220					232			191	226					52 200
230					242			201	236					54 900
240					252	+ 1.62 - 0.81		211	246					52 500
250					262			221	256					50 500
260			16.2	16 *Max*	275		5	227	268				12	54 000
270					285			237	278					51 800
280					295			247	288					50 000
290					305			257	298					48 200
300					315			267	308					46 500

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