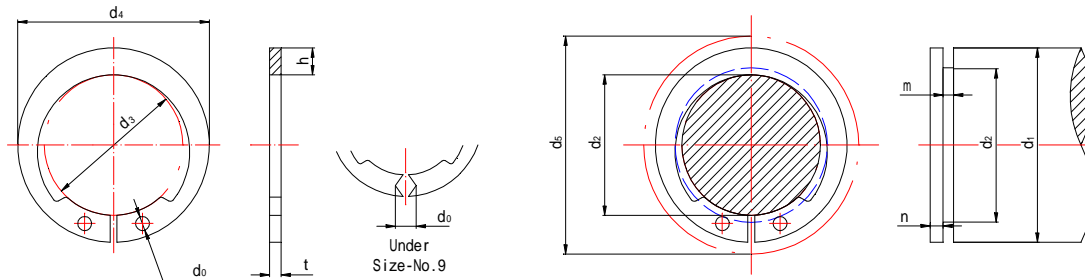




Inverted Retaining Rings (External)

Groove Dimension



The dimension d_5 is the maximum diameter of outer periphery when the retaining ring is set on the shaft.

d_5 : CLEARANCE DIAMETER

Unit: mm

Size-No.	Ring dimension								d_5	Groove dimension					
	d_3		d_4	t		h	d_0	Gen. Tol.		d_1	d_2		m		n
	Max.	Min.		Max.	Min.						Max.	Min.	Max.	Min.	Min.
ISTW- 6	5.7	5.4	8	0.53	0.47	1.2	2.2	±0.2	8.9	6	5.7	5.66	0.7	0.6	1.5
7	6.6	6.3	9.3	0.64	0.56	1.4	2.4	±0.2	10.3	7	6.7	6.64	0.8	0.7	1.5
8	7.5	7.2	10.6	0.74	0.66	1.6	3	±0.2	11.7	8	7.6	7.54	0.9	0.8	1.5
9	8.5	8.2	12	0.84	0.76	1.8	3.4	±0.2	13.1	9	8.6	8.54	1.09	0.95	1.5
10	9.45	9.15	13.3	1.05	0.95	2	1.2	±0.3	14.5	10	9.6	9.51	1.29	1.15	1.5
11	10.35	10.05	14.4	1.05	0.95	2.1	1.2	±0.3	16	11	10.5	10.39	1.29	1.15	1.5
12	11.28	10.92	15.5	1.05	0.95	2.2	1.2	±0.3	17.2	12	11.5	11.39	1.29	1.15	1.5
13	12.18	11.82	16.6	1.05	0.95	2.3	1.2	±0.3	18.4	13	12.4	12.29	1.29	1.15	1.5
14	13.08	12.72	17.5	1.05	0.95	2.3	1.2	±0.3	19.4	14	13.4	13.29	1.29	1.15	1.5
15	13.98	13.62	18.6	1.05	0.95	2.4	1.2	±0.3	20.6	15	14.3	14.19	1.29	1.15	1.5
16	14.88	14.52	19.7	1.05	0.95	2.5	1.2	±0.3	21.8	16	15.2	15.09	1.29	1.15	1.5
17	15.88	15.52	20.9	1.05	0.95	2.6	1.2	±0.3	23	17	16.2	16.09	1.29	1.15	1.5
18	16.68	16.32	21.9	1.26	1.14	2.7	1.5	±0.3	24.2	18	17	16.89	1.49	1.35	1.5
19	17.68	17.32	23.1	1.26	1.14	2.8	1.5	±0.3	25.4	19	18	17.89	1.49	1.35	1.5
20	18.7	18.3	24.3	1.26	1.14	2.9	1.5	±0.3	27	20	19	18.79	1.49	1.35	1.5
21	19.7	19.3	25.5	1.26	1.14	3	1.5	±0.4	28	21	20	19.79	1.49	1.35	1.5
22	20.7	20.3	26.5	1.26	1.14	3	1.5	±0.4	29	22	21	20.79	1.49	1.35	1.5
24	22.4	22.0	28.6	1.26	1.14	3.2	1.5	±0.4	31.5	24	22.9	21.69	1.49	1.35	1.5
25	23.4	23.0	29.8	1.26	1.14	3.3	1.5	±0.4	33	25	23.9	22.69	1.49	1.35	1.5
26	24.4	24.0	31	1.26	1.14	3.4	1.5	±0.4	34	26	24.9	23.69	1.49	1.35	1.5
28	26.1	25.7	33.1	1.56	1.44	3.6	1.8	±0.4	36.5	28	26.6	26.39	1.79	1.65	1.5
29	27.1	26.7	34.1	1.56	1.44	3.6	1.8	±0.4	37.5	29	27.6	27.39	1.79	1.65	1.5
30	28.1	27.7	35.3	1.56	1.44	3.7	1.8	±0.4	38.5	30	28.6	28.39	1.79	1.65	1.5
32	29.8	29.4	37.4	1.56	1.44	3.9	1.8	±0.4	41	32	30.3	30.05	1.79	1.65	1.5
34	31.75	31.25	39.7	1.56	1.44	4.1	1.8	±0.4	43.5	34	32.3	32.05	1.79	1.65	1.5
35	32.45	31.95	40.6	1.56	1.44	4.2	1.8	±0.4	45	35	33	32.75	1.79	1.65	1.5
36	33.45	32.95	41.6	1.82	1.68	4.2	2	±0.4	46	36	34	33.75	2.04	1.9	2
38	35.45	34.95	44	1.82	1.68	4.4	2	±0.4	48	38	36	35.75	2.04	1.9	2
40	37.4	36.6	46.2	1.82	1.68	4.6	2	±0.4	51	40	38	37.75	2.04	1.9	2
42	38.9	38.1	48.1	1.82	1.68	4.8	2	±0.5	54	42	39.5	39.25	2.04	1.9	2
45	41.9	41.1	51.3	1.82	1.68	4.9	2	±0.5	57	45	42.5	42.25	2.04	1.9	2
48	44.9	44.1	55.1	1.82	1.68	5.3	2	±0.5	61	48	45.5	45.25	2.04	1.9	2
50	46.2	45.4	56.8	2.07	1.93	5.5	2.5	±0.5	63	50	47	46.75	2.34	2.2	2
52	48.2	47.4	59	2.07	1.93	5.6	2.5	±0.5	65	52	49	48.75	2.34	2.2	2
55	51.25	50.35	62.6	2.07	1.93	5.9	2.5	±0.5	69	55	52	51.7	2.34	2.2	2
56	52.25	51.35	63.8	2.07	1.93	6	2.5	±0.5	70	56	53	52.7	2.34	2.2	2
58	54.25	53.35	66	2.07	1.93	6.1	2.5	±0.5	72	58	55	54.7	2.34	2.2	2
60	56.25	55.35	68.4	2.07	1.93	6.3	2.5	±0.5	75	60	57	56.7	2.34	2.2	2
62	58.25	57.35	70.8	2.07	1.93	6.5	2.5	±0.5	77	62	59	58.7	2.34	2.2	2
63	59.25	58.35	72	2.07	1.93	6.6	2.5	±0.5	78	63	60	59.7	2.34	2.2	2
65	61.25	60.35	74.4	2.58	2.42	6.8	3	±0.5	81	65	62	61.7	2.84	2.7	2
68	63.95	63.05	77.5	2.58	2.42	7	3	±0.5	84	68	65	64.7	2.84	2.7	2
70	65.95	65.05	79.9	2.58	2.42	7.2	3	±0.5	87	70	67	66.7	2.84	2.7	2.5
72	67.95	67.05	82.1	2.58	2.42	7.3	3	±0.7	89	72	69	68.7	2.84	2.7	2.5
75	70.95	70.05	85.7	2.58	2.42	7.6	3	±0.7	92	75	72	71.7	2.84	2.7	2.5
78	73.95	73.05	89.3	2.58	2.42	7.9	3	±0.7	96	78	75	74.7	2.84	2.7	2.5
80	74.95	74.05	90.5	2.58	2.42	8	3	±0.7	98	80	76.5	76.2	2.84	2.7	2.5
82	76.95	76.05	92.9	2.58	2.42	8.2	3	±0.7	101	82	78.5	78.2	2.84	2.7	2.5
85	79.95	79.05	96.5	3.09	2.91	8.5	3.5	±0.7	104	85	81.5	81.15	3.38	3.2	3
88	83.05	81.95	99.9	3.09	2.91	8.7	3.5	±0.7	108	88	84.5	84.15	3.38	3.2	3
90	85.05	83.95	102.3	3.09	2.91	8.9	3.5	±0.7	110	90	86.5	86.15	3.38	3.2	3
95	90.05	88.95	108.1	3.09	2.91	9.3	3.5	±0.7	116	95	91.5	91.15	3.38	3.2	3
100	95.05	93.95	113.9	3.09	2.91	9.7	3.5	±0.7	122	100	96.5	96.15	3.38	3.2	3

Material=Carbon spring steel. Hardness=HRC44~52. Finish=Black phosphate coating (ACP), Zn plating, Chromate dip.

Note: Enquire these sizes of . mark before you formally order it.

. mark shows approximate dimension.

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