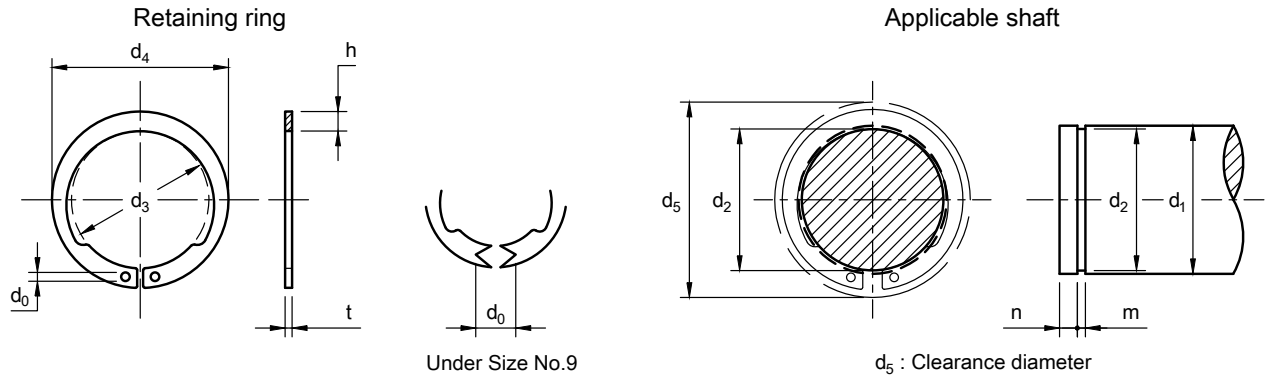


Inverted External Retaining Ring



Unit : mm

Size-No.	Retaining ring								Applicable shaft							
	d ₃		d ₄	t		h	d ₀	Gen. Tol.	d ₅	d ₁	d ₂		m		n	
	Basic	Tol.		Basic	Tol.						Basic	Tol.	Basic	Tol.		Min.
ISTW-	6	5.6	+0.1 -0.2	8	0.5	±0.03	1.2	2.2	±0.2	8.9	6	5.7	0 -0.04	0.6	+0.1 0	
	7	6.5		9.3	0.6	±0.04	1.4	2.4		10.3	7	6.7	0 -0.06	0.7		
	8	7.4		10.6	0.7	±0.04	1.6	3		11.7	8	7.6	0 -0.06	0.8		
	9	8.4	±0.15	12	0.8	±0.05	1.8	3.4	±0.3	13.1	9	8.6	0 -0.09	0.95	1.5	
	10	9.3		13.3	2		1.2	14.5		10	9.6	16	11	10.5		
	11	10.2		14.4	2.1		1.2	16		11	10.5	17.2	12	11.5		
	12	11.1		15.5	2.2		1.2	17.2		12	11.5	18.4	13	12.4		
	13	12	16.6	2.3	1.2	18.4	13	12.4	19.4	14	13.4	0 -0.11	1.15			
	14	12.9	17.5	2.3	1.2	19.4	14	13.4	20.6	15	14.3					
	15	13.8	±0.18	18.6	2.4	1.2	2.4	1.2	±0.3	21.8	16	15.2	0 -0.11	1.15		
16	14.7	19.7	2.5	1.2	23	17	16.2	23	17	16.2						
17	15.7	±0.2	20.9	2.6	±0.06	2.7	1.5	±0.4	24.2	18	17	0 -0.21	1.35	+0.14 0		
18	16.5		21.9	2.7		1.5	25.4		19	18	27					20
19	17.5		23.1	2.8		1.5	27		20	19	28				21	20
20	18.5		24.3	2.9		1.5	29		22	21	31.5				24	22.9
21	19.5	25.5	3	1.5	33	25	23.9	34	26	24.9	0 -0.21	1.35				
22	20.5	26.5	3	1.5	34	26	24.9	36.5	28	26.6						
24	22.2	±0.2	28.6	3.2	±0.4	3.6	1.8	±0.4	37.5	29	27.6	0 -0.25	1.65			
25	23.2	29.8	3.3	1.8		38.5	30		28.6	41	32				30.3	
26	24.2	31	3.4	1.8		41	32		30.3	43.5	34				32.3	
28	25.9	33.1	3.6	1.8		45	35		33	46	36				34	
29	26.9	±0.25	34.1	3.6	±0.07	4.2	2	±0.5	48	38	36	0 -0.25	1.9			
30	27.9		35.3	3.7		2	48		38	36	51			40	38	
32	29.6		37.4	3.9		2	51		40	38	54			42	39.5	
34	31.5		39.7	4.1		2	54		42	39.5	57			45	42.5	
35	32.2	±0.4	40.6	4.2	±0.07	4.2	2	±0.5	57	45	42.5	0 -0.3	2			
36	33.2		41.6	4.2		2	57		45	42.5	61			48	45.5	
38	35.2		44	4.4		2	61		48	45.5	63			50	47	
40	37		46.2	4.6		2	63		50	47	65			52	49	
42	38.5	±0.4	48.1	4.8	±0.07	4.6	2	±0.5	65	52	49	0 -0.3	2			
45	41.5		51.3	4.9		2	65		52	49	69			55	52	
48	44.5		55.1	5.3		2	69		55	52	70			56	53	
50	45.8		56.8	5.5		2	70		56	53	72			58	55	
52	47.8	±0.45	59	5.6	±0.08	5.6	2.5	±0.5	72	58	55	0 -0.3	2.2			
55	50.8		62.6	5.9		2.5	72		58	55	75			60	57	
56	51.8		63.8	6		2.5	75		60	57	77			62	59	
58	53.8		66	6.1		2.5	77		62	59	78			63	60	
60	55.8	±0.55	68.4	6.3	±0.08	6.3	2.5	±0.5	81	65	62	0 -0.3	2.7			
62	57.8		70.8	6.5		2.5	81		65	62	84			68	65	
63	58.8		72	6.6		2.5	84		68	65	87			70	67	
65	60.8		74.4	6.8		2.5	87		70	67	89			72	69	
68	63.5	±0.45	77.5	7	±0.08	7	3	±0.7	89	72	69	0 -0.3	2.7			
70	65.5		79.9	7.2		3	92		75	72	92			75	72	
72	67.5		82.1	7.3		3	96		78	75	96			78	75	
75	70.5		85.7	7.6		3	98		80	76.5	98			80	76.5	
78	73.5	±0.55	89.3	7.9	±0.09	8	3	±0.7	101	82	78.5	0 -0.35	+0.18 0			
80	74.5		90.5	8		3	104		85	81.5	104			85	81.5	
82	76.5		92.9	8.2		3	108		88	84.5	108			88	84.5	
85	79.5		96.5	8.5		3	110		90	86.5	110			90	86.5	
88	82.5	±0.55	99.9	8.7	±0.09	8.7	3.5	±0.7	116	95	91.5	0 -0.35	+0.18 0			
90	84.5		102.3	8.9		3.5	116		95	91.5	116			95	91.5	
95	89.5		108.1	9.3		3.5	122		100	96.5	122			100	96.5	
100	94.5		113.9	9.7		3.5	122		100	96.5	122			100	96.5	

• Material = carbon steel

Hardness = HRC44~52

Finish = black oxide or phosphate coating (ACP)