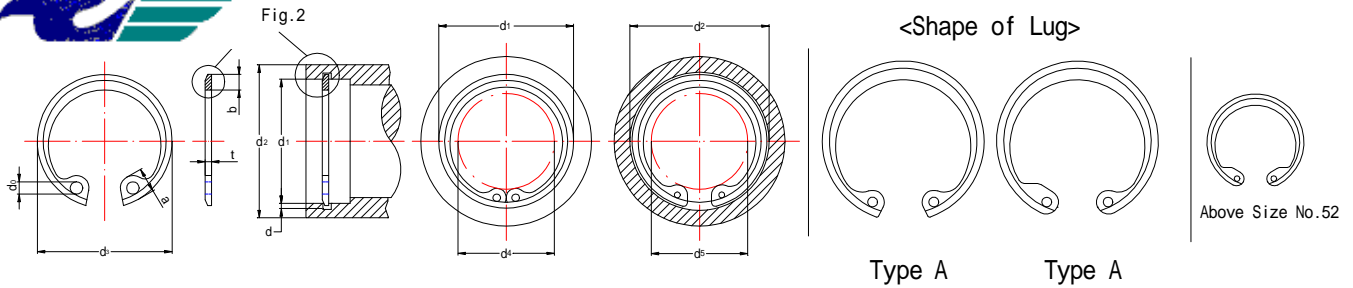


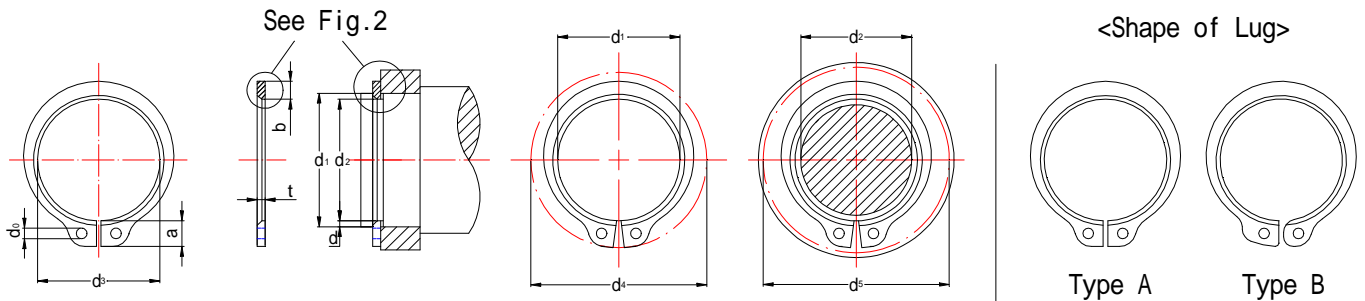
## Beveled Retaining Rings (Internal)



Unit: mm

Size-No.	Ring dimension										Groove dimension						
	d3		t		U		a	b	d0	Shape of Lug	d1	d2			m		d
	Max.	Min.	Max.	Min.	Max.	Min.						Max.	Min.	T.I.R	Max.	Min.	
MT-26	29.3	28.65	1.05	0.95	0.865	0.815	4	2.7	1.6	B	26	28.1	28	0.1	0.95	0.85	1.0
28	31.75	30.6	1.36	1.24	1.05	0.99	4.6	2.95	1.9	B	28	30.2	30.1	0.1	1.2	1.1	1.05
30	34.05	32.9	1.36	1.24	1.05	0.99	4.6	3.05	1.9	B	30	32.2	32.1	0.13	1.2	1.1	1.05
32	36	34.85	1.36	1.24	1.02	0.96	4.6	3.15	1.9	A	32	34.4	34.3	0.13	1.2	1.1	1.15
35	39.45	38.25	1.36	1.24	1.00	0.94	4.6	3.3	1.9	B	35	37.6	37.5	0.13	1.2	1.1	1.25
40	45.15	43.6	1.68	1.52	1.25	1.19	5.25	4.15	1.9	B	40	42.93	42.8	0.13	1.45	1.3	1.4
42	47.5	45.95	1.68	1.52	1.22	1.16	5.75	4.25	1.93	A	42	45.13	45	0.13	1.45	1.3	1.5
47	53.05	51.5	1.68	1.52	1.20	1.14	5.94	4.3	2.31	B	47	50.53	50.4	0.13	1.45	1.3	1.7
52	58.9	57.15	2.08	1.92	1.56	1.48	6.35	4.7	2.31	B	52	55.85	55.7	0.15	1.75	1.6	1.85
55	62.1	60.35	2.08	1.92	1.54	1.46	6.6	5.05	2.31	B	55	59.25	59.1	0.15	1.75	1.6	2.05
62	69.6	67.85	2.08	1.92	1.49	1.41	7.1	5.3	2.74	B	62	66.65	66.5	0.15	1.75	1.6	2.25
72	80.6	78.85	2.48	2.32	1.85	1.75	7.6	5.8	2.74	B	72	77.35	77.2	0.15	2.15	2	2.6
80	90.5	87.7	2.88	2.72	2.16	2.04	7.9	6.65	3.2	A	80	86.05	85.9	0.15	2.45	2.3	2.95
85	96.2	93.4	2.88	2.72	2.16	2.04	8.65	7	3.17	B	85	91.35	91.2	0.15	2.45	2.3	3.1

## Beveled Retaining Rings (External)



Unit: mm

Size-No.	Ring dimension										Groove dimension						
	d3		t		U		a	b	d0	shape of Lug	d1	d2			m		d
	Max.	Min.	Max.	Min.	Max.	Min.						Max.	Min.	T.I.R	Max.	Min.	
NT-28	26.05	25.4	1.36	1.24	1.07	1.01	4.6	3.25	1.93	B	28	26.15	26.05	0.13	1.2	1.1	0.93
30	28.15	27.5	1.36	1.24	1.07	1.01	4.9	3.3	1.93	B	30	28.15	28.05	0.13	1.2	1.1	0.93
32	29.85	29.2	1.36	1.24	1.07	1.01	4.65	3.55	1.93	B	32	29.85	29.75	0.13	1.2	1.1	1.08
35	32.55	31.9	1.36	1.24	1.02	0.96	4.6	3.9	1.93	B	35	32.55	32.45	0.13	1.2	1.1	1.23
40	37.1	36.25	1.68	1.52	1.27	1.21	5.9	4.4	3.12	B	40	37.2	37.05	0.13	1.45	1.3	1.4
45	46.95	41.1	1.68	1.52	1.25	1.19	6	4.8	3.12	B	45	41.95	41.8	0.13	1.45	1.3	1.53
50	46.55	45.7	1.68	1.52	1.22	1.16	6.2	5.1	3.12	B	50	46.8	46.65	0.13	1.45	1.3	1.6
55	50.95	49.95	2.08	1.92	1.61	1.53	6.7	5.4	3.12	B	55	51.3	51.15	0.15	1.85	1.7	1.85
60	56.15	55.15	2.08	1.92	1.56	1.48	6.75	5.7	3.12	B	60	56.2	56.05	0.15	1.85	1.7	1.85

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

Note: The data of thrust load shows the value when the ring is tested by the shaft or the bore made of cold rolled steel.

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Fig.1

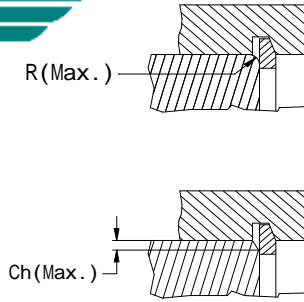
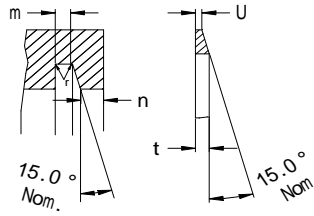


Fig.2



Size-No.	r(Max.)
50under	0.12
52above	0.25

Unit: mm

Size-No.	DATA							
	Clearance diameter		Allowable thrust load Sharp corner abutment		Maximum allowable Corner radii and Chamfers of Retained parts (Fig.1)		Rinid end-play take-up	n (Min.)
	When sprung into d1	When sprung into d2(d/2)	Rings Factor=4	Grooves Factor=2	R(Max.)	Ch(Max.)		
	d4	d5	Pr(kgf)	Pg(kgf)				
MT-26	17.4	18.4	2,500	750	1	0.8	0.14	
28	18.2	19.2	3,600	850	1	0.8	0.14	1.6
30	20	21	3,800	950	1	0.8	0.14	1.7
32	22	23.1	4,000	1,090	1	0.8	0.15	1.9
35	25	26.2	4,400	1,300	1	0.8	0.17	2.1
40	29.2	30.6	5,200	1,600	1.6	1.3	0.19	2.3
42	29.7	31.2	5,500	1,900	1.6	1.3	0.2	2.6
47	34.3	36	6,300	2,300	1.6	1.3	0.23	2.8
52	38.6	40.4	10,300	2,900	2	1.6	0.25	3.1
55	40.8	42.8	10,900	3,300	2	1.6	0.27	3.4
62	47	49.2	12,200	4,100	2	1.6	0.3	3.9
72	55.9	58.5	16,700	5,500	2	1.6	0.35	3.9
80	63	66	22,000	7,000	2.5	2	0.4	4.4
85	66.8	69.9	23,400	7,800	2.5	2	0.42	4.7

Fig.1

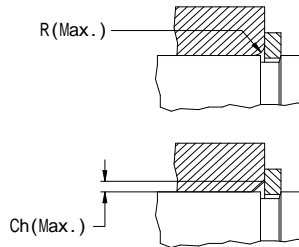
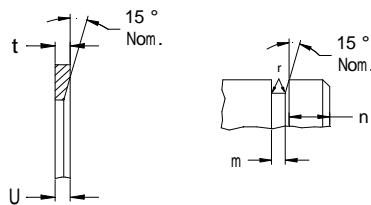


Fig.2



Size-No.	r(Max.)
50under	0.12
52above	0.25

Unit: mm

Size-No.	DATA							
	Clearance diameter		Allowable thrust load Sharp corner abutment		Maximum allowable Corner radii and Chamfers of Retained parts (Fig.1)		Rinid end-play take-up	n (Min.)
	When sprung into d1	When sprung into d2(d/2)	Rings Factor=4	Grooves Factor=2	R(Max.)	Ch(Max.)		
	d4	d5	Pr(kgf)	Pg(kgf)				
NT-28	38.8	37.8	3,000	650	1.6	1	0.12	1.4
30	40.8	39.8	3,100	750	1.6	1	0.12	1.4
32	42.8	41.7	3,300	840	1.8	1.1	0.14	1.6
35	45.9	44.6	3,600	1,000	2	1.2	0.16	1.8
40	54	52.6	5,100	1,300	2	1.2	0.19	2.1
45	59	57.4	5,800	1,700	2	1.2	0.2	2.3
50	64.4	62.8	6,500	2,100	2	1.2	0.21	2.4
55	70.6	68.7	9,000	2,500	2.5	1.5	0.25	2.8
60	75.6	73.7	9,900	3,200	2.5	1.5	0.25	2.9

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