Retaining rings for bores DIN472
孔用挡圈 DIN472

Product introduction

Retaining rings for shafts and bores are the most common retaining rings.These rings provide the favorable solution with respect to thickness and radial width.They transfer large axial forces from the located mating component onto the groove wall.The external rings can also be used for relatively higher shaft rotational speeds.

Features

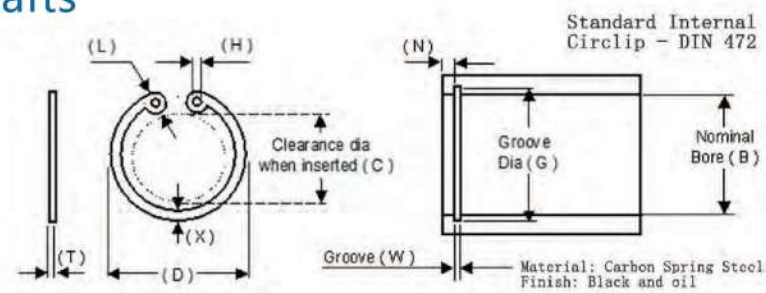
Circlips have been designed to fix seals or scraper rings on the cylinder rod.The advantages of the circlip are reduction of material waste and the number of components.

Product application:

- Mechanical engineering
- Automotive engineering
- Gear systems
- Electrical engineering
- Precision mechanics

Retaunung rings for shafts
轴用挡圈

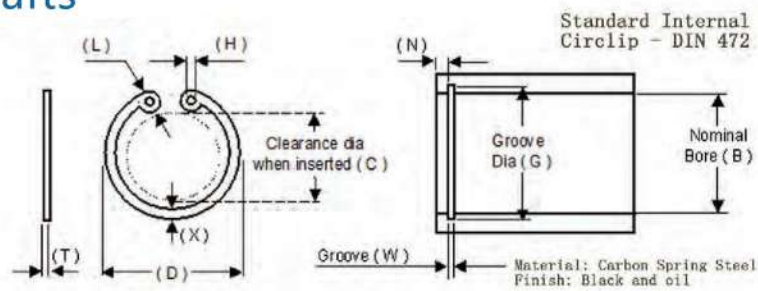
- DIN472
- Imperial size stand



Circlip Dimensions													Crove Dimensions					
Part no	Bore	(T)	Tolerance		(D)	Tolerance		(C)	(X)	(L)	(H)	Fr KN	(G)	Tolerance		(W)	(N)	Fr KN
472008	8	0.80	+0.00	-0.1	8.7	+0.36	-0.10	3.0	1.1	2.4	1.0	2.0	8.4	+0.09	-0.00	0.9	0.6	0.9
472009	9	0.80	+0.00	-0.1	9.8	+0.36	-0.10	3.7	1.3	2.5	1.0	2.0	9.4	+0.09	-0.00	0.9	0.6	1.0
472010	10	1.00	+0.00	-0.06	10.8	+0.36	-0.10	3.3	1.4	3.2	1.2	4.0	10.4	+0.11	-0.00	1.1	0.6	1.1
472011	11	1.00	+0.00	-0.06	11.8	+0.36	-0.10	4.1	1.5	3.3	1.2	4.0	11.4	+0.11	-0.00	1.1	0.6	1.2
472012	12	1.00	+0.00	-0.06	13.0	+0.36	-0.10	4.9	1.7	3.4	1.5	4.0	12.5	+0.11	-0.00	1.1	0.8	1.6
472013	13	1.00	+0.00	-0.06	14.1	+0.36	-0.10	5.4	1.8	3.6	1.5	4.2	13.6	+0.11	-0.00	1.1	0.9	2.1
472014	14	1.00	+0.00	-0.06	15.1	+0.36	-0.10	t	1.9	3.7	1.7	4.5	14.6	+0.11	-0.00	1.1	0.9	2.3
472015	15	1.00	+0.00	-0.06	16.2	+0.36	-0.10	7.2	2.0	3.7	1.7	5.0	15.7	+0.11	-0.00	1.1	1.1	2.8
472016	16	1.00	+0.00	-0.06	17.3	+0.36	-0.10	8.0	2.0	3.8	1.7	5.5	16.8	+0.11	-0.00	1.1	1.2	3.4
472017	17	1.00	+0.00	-0.06	18.3	+0.42	-0.13	8.8	2.1	3.9	1.7	6.0	17.8	+0.11	-0.00	1.1	1.2	3.6
472018	18	1.00	+0.00	-0.06	19.5	+0.42	-0.13	9.4	2.2	4.1	2.0	6.5	19.0	+0.13	-0.00	1.1	1.5	4.8
472019	19	1.00	+0.00	-0.06	20.5	+0.42	-0.13	10.4	2.2	4.1	2.0	6.8	20.0	+0.13	-0.00	1.1	1.5	5.1
472020	20	1.00	+0.00	-0.06	21.5	+0.42	-0.13	11.2	2.3	4.2	2.0	7.2	21.0	+0.13	-0.00	1.1	1.5	5.4
472021	21	1.00	+0.00	-0.06	22.5	+0.42	-0.13	12.2	2.4	4.2	2.0	7.6	22.0	+0.13	-0.00	1.1	1.5	5.7
472022	22	1.00	+0.00	-0.06	23.5	+0.42	-0.13	13.2	2.5	4.2	2.0	8.0	23.0	+0.13	-0.00	1.1	1.5	5.9
472023	23	1.20	+0.00	-0.06	24.6	+0.42	-0.21	14.2	2.5	4.2	2.0	13.8	24.1	+0.21	-0.00	1.3	1.5	6.8
472024	24	1.20	+0.00	-0.06	25.9	+0.42	-0.21	14.8	2.6	4.4	2.0	13.9	25.2	+0.21	-0.00	1.3	1.8	7.7
472025	25	1.20	+0.00	-0.06	26.9	+0.42	-0.21	15.5	2.7	4.5	2.0	14.6	26.2	+0.21	-0.00	1.3	1.8	8.0
472026	26	1.20	+0.00	-0.06	27.9	+0.42	-0.21	16.1	2.8	4.7	2.0	13.9	27.2	+0.21	-0.00	1.3	1.8	8.4
472027	27	1.20	+0.00	-0.06	29.1	+0.42	-0.21	17.1	2.9	4.7	2.0	13.3	28.4	+0.21	-0.00	1.3	2.1	10.1
472028	28	1.20	+0.00	-0.06	30.1	+0.50	-0.25	17.9	2.9	4.8	2.0	13.3	29.4	+0.21	-0.00	1.3	2.1	10.5
472029	29	1.20	+0.00	-0.06	31.1	+0.50	-0.25	18.9	3.0	4.8	2.0	13.6	30.4	+0.25	-0.00	1.3	2.1	10.9
472030	30	1.20	+0.00	-0.06	32.1	+0.50	-0.25	19.9	3.0	4.8	2.0	13.7	31.4	+0.25	-0.00	1.3	2.1	11.3
472031	31	1.20	+0.00	-0.06	33.4	+0.50	-0.25	20.0	3.2	5.2	2.5	13.8	32.7	+0.25	-0.00	1.3	2.6	14.1
472032	32	1.20	+0.00	-0.06	34.4	+0.50	-0.25	20.6	3.2	5.4	2.5	13.8	33.7	+0.25	-0.00	1.3	2.6	14.6
472033	33	1.20	+0.00	-0.06	35.5	+0.50	-0.25	21.6	3.3	5.4	2.5	14.3	34.7	+0.25	-0.00	1.3	2.6	15.0
472034	34	1.50	+0.00	-0.06	36.5	+0.50	-0.25	22.6	3.3	5.4	2.5	26.2	35.7	+0.25	-0.00	1.6	2.6	15.4
472035	35	1.50	+0.00	-0.06	37.8	+0.50	-0.25	23.6	3.4	5.4	2.5	26.9	37.0	+0.25	-0.00	1.6	3.0	18.8
472036	36	1.50	+0.00	-0.06	38.8	+0.50	-0.25	24.6	3.5	5.4	2.5	26.4	38.0	+0.25	-0.00	1.6	3.0	19.4
472037	37	1.50	+0.00	-0.06	39.8	+0.50	-0.25	25.4	3.6	5.5	2.5	27.1	39.0	+0.25	-0.00	1.6	3.0	19.8
472038	38	1.50	+0.00	-0.06	40.8	+0.50	-0.25	26.4	3.7	5.5	2.5	28.2	40.0	+0.25	-0.00	1.6	3.0	22.5
472039	39	1.50	+0.00	-0.06	42.0	+0.90	-0.39	27.2	3.8	5.6	2.5	28.8	41.0	+0.25	-0.00	1.6	3.0	26.0
472040	40	1.75	+0.00	-0.06	43.5	+0.90	-0.39	27.8	3.9	5.8	2.5	44.6	42.5	+0.25	-0.00	1.9	3.8	27.0
472041	41	1.75	+0.00	-0.06	44.5	+0.90	-0.39	28.6	4.0	5.9	2.5	45.0	43.5	+0.25	-0.00	1.9	3.8	27.6
472042	42	1.75	+0.00	-0.06	45.5	+0.90	-0.39	29.6	4.1	5.9	2.5	44.7	44.5	+0.25	-0.00	1.9	3.8	28.4
472043	43	1.75	+0.00	-0.06	46.5	+0.90	-0.39	30.6	4.2	5.9	2.5	44.5	45.5	+0.25	-0.00	1.9	3.8	28.8
472044	44	1.75	+0.00	-0.06	47.5	+0.90	-0.39	31.4	4.2	6.0	2.5	43.3	46.5	+0.25	-0.00	1.9	3.8	29.5
472045	45	1.75	+0.00	-0.06	48.5	+0.90	-0.39	32.0	4.3	6.2	2.5	43.1	47.5	+0.25	-0.00	1.9	3.8	30.2
472046	46	1.75	+0.00	-0.06	49.5	+0.90	-0.39	32.7	4.4	6.3	2.5	42.9	48.5	+0.25	-0.00	1.9	3.8	30.8
472047	47	1.75	+0.00	-0.06	50.5	+1.10	-0.46	33.5	4.4	6.4	2.5	43.5	49.5	+0.25	-0.00	1.9	3.8	31.4
472048	48	1.75	+0.00	-0.06	51.5	+1.10	-0.46	34.5	4.5	6.4	2.5	43.2	50.5	+0.30	-0.00	1.9	3.8	32.0
472050	50	2.00	+0.00	-0.07	54.2	+1.10	-0.46	36.3	4.6	6.5	2.5	60.8	53.0	+0.30	-0.00	2.2	4.5	40.5
472051	51	2.00	+0.00	-0.07	55.2	+1.10	-0.46	37.3	4.7	6.5	2.5	60.2	54.0	+0.30	-0.00	2.2	4.5	41.2
472052	52	2.00	+0.00	-0.07	56.2	+1.10	-0.46	37.9	4.7	6.7	2.5	60.3	55.0	+0.30	-0.00	2.2	4.5	42.0
472053	53	2.00	+0.00	-0.07	57.2	+1.10	-0.46	38.9	4.9	6.7	2.5	60.7	56.0	+0.30	-0.00	2.2	4.5	42.9
472054	54	2.00	+0.00	-0.07	58.2	+1.10	-0.46	39.9	5.0	6.7	2.5	60.4	57.0	+0.30	-0.00	2.2	4.5	43.6
472055	55	2.00	+0.00	-0.07	59.2	+1.10	-0.46	40.7	5.0	6.8	2.5	60.3	58.0	+0.30	-0.00	2.2	4.5	44.4
472058	58	2.00	+0.00	-0.07	62.2	+1.10	-0.46	43.5	5.2	6.9	2.5	60.8	61.0	+0.30	-0.00	2.2	4.5	46.7
472060	60	2.00	+0.00	-0.07	64.2	+1.10	-0.46	44.7	5.4	7.3	2.5	61.0	63.0	+0.30	-0.00	2.2	4.5	48.3
472062	62	2.00	+0.00	-0.07	66.2	+1.10	-0.46	46.7	5.5	7.3	2.5	60.9	65.0	+0.30	-0.00	2.2	4.5	49.8
472063	63	2.00	+0.00	-0.07	67.2	+1.10	-0.46	47.7	5.6	7.3	2.5	60.8	66.0	+0.30	-0.00	2.2	4.5	50.6
472064	64	2.00	+0.00	-0.07	68.2	+1.10	-0.46	48.7	5.7	7.5	2.5	60.6	67.0	+0.30	-0.00	2.2	4.5	51.4
472065	65	2.50	+0.00	-0.07	69.2	+1.10	-0.46	49.0	5.8	7.6	3.0	121.0	68.0	+0.30	-0.00	2.7	4.5	51.8
472067	67	2.50	+0.00	-0.07	71.5	+1.10	-0.46	50.8	6.0	7.7	3.0	121.0	70.0	+0.30	-0.00	2.7	4.5	53.8
472068	68	2.50	+0.00	-0.07	72.5	+1.10	-0.46	51.6	6.1	7.8	3.0	121.5	71.0	+0.30	-0.00	2.7	4.5	54.5
472070	70	2.50	+0.00	-0.07	74.5	+1.10	-0.46	53.6	6.2	7.8	3.0	119.0	73.0	+0.30	-0.00	2.7	4.5	56.2

Retaunung rings for shafts
轴用挡圈

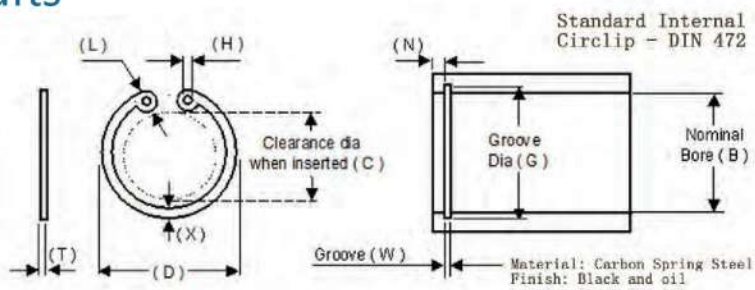
- DIN472
- Imperial size stand



Circlip Dimensions													Groove Dimensions					
art no	Bore	(T)	Tolerance		(D)	Tolerance		(C)	(X)	(L)	(H)	Fr KN	(G)	Tolerance		(W)	(N)	Fr KN
472072	72	2.50	+0.00	-0.07	76.5	+1.10	-0.46	55.6	6.4	7.8	3.0	119.2	75.0	+0.30	-0.00	2.7	4.5	58.0
472075	75	2.50	+0.00	-0.07	79.5	+1.10	-0.46	58.6	6.6	7.8	3.0	118.0	78.0	+0.30	-0.00	2.7	4.5	60.0
472077	77	2.50	+0.00	-0.07	81.5	+1.10	-0.46	60.4	6.7	7.9	3.0	121.1	80.0	+0.30	-0.00	2.7	4.5	61.6
472078	78	2.50	+0.00	-0.07	82.5	+1.30	-0.54	60.1	6.8	8.5	3.0	122.5	81.0	+0.35	-0.00	2.7	4.5	62.3
472080	80	2.50	+0.00	-0.07	85.5	+1.30	-0.54	62.1	7.0	8.5	3.0	120.9	83.5	+0.35	-0.00	2.7	5.3	74.6
472082	82	2.50	+0.00	-0.07	87.5	+1.30	-0.54	64.1	7.0	8.5	3.0	119.0	85.5	+0.35	-0.00	2.7	5.3	76.6
472085	85	3.00	+0.00	-0.08	90.5	+1.30	-0.54	66.9	7.2	8.6	3.5	201.4	88.5	+0.35	-0.00	3.2	5.3	79.5
472087	87	3.00	+0.00	-0.08	92.5	+1.30	-0.54	68.9	7.3	8.6	3.5	204.5	90.5	+0.35	-0.00	3.2	5.3	81.3
472088	88	3.00	+0.00	-0.08	93.5	+1.30	-0.54	69.9	7.4	8.6	3.5	209.4	91.5	+0.35	-0.00	3.2	5.3	82.1
472090	90	3.00	+0.00	-0.08	95.5	+1.30	-0.54	71.9	7.6	8.6	3.5	199.0	93.5	+0.35	-0.00	3.2	5.3	84.0
472092	92	3.00	+0.00	-0.08	97.5	+1.30	-0.54	73.7	7.8	8.7	3.5	201.0	95.5	+0.35	-0.00	3.2	5.3	85.8
472095	95	3.00	+0.00	-0.08	100.5	+1.30	-0.54	76.5	8.1	8.8	3.5	195.0	98.5	+0.35	-0.00	3.2	5.3	88.6
472097	97	3.00	+0.00	-0.08	102.5	+1.30	-0.54	78.5	8.2	8.8	3.5	193.0	100.5	+0.35	-0.00	3.2	5.3	90.5
472098	98	3.00	+0.00	-0.08	103.5	+1.30	-0.54	79.0	8.3	9.0	3.5	191.0	101.5	+0.35	-0.00	3.2	5.3	91.3
472100	100	3.00	+0.00	-0.08	105.5	+1.30	-0.54	80.6	8.4	9.2	3.5	188.0	103.5	+0.35	-0.00	3.2	5.3	93.1
472102	102	4.00	+0.00	-0.10	108.0	+1.30	-0.54	82.0	8.5	9.5	3.5	439.0	106.0	+0.54	-0.00	4.2	6.0	108.8
472105	105	4.00	+0.00	-0.10	112.0	+1.30	-0.54	85.0	8.7	9.5	3.5	436.0	109.0	+0.54	-0.00	4.2	6.0	112.0
472108	108	4.00	+0.00	-0.10	115.0	+1.30	-0.54	89.0	8.9	9.5	3.5	419.0	112.0	+0.54	-0.00	4.2	6.0	115.0
472110	110	4.00	+0.00	-0.10	117.0	+1.30	-0.54	88.2	9.0	10.4	3.5	415.0	114.0	+0.54	-0.00	4.2	6.0	117.0
472112	112	4.00	+0.00	-0.10	119.0	+1.30	-0.54	90.0	9.1	10.5	3.5	418.0	116.0	+0.54	-0.00	4.2	6.0	119.0
472115	115	4.00	+0.00	-0.10	122.0	+1.50	-0.63	93.0	9.3	10.5	3.5	409.0	119.0	+0.54	-0.00	4.2	6.0	122.0
472120	120	4.00	+0.00	-0.10	127.0	+1.50	-0.63	96.9	9.7	11.0	3.5	396.0	124.0	+0.63	-0.00	4.2	6.0	127.0
472125	125	4.00	+0.00	-0.10	132.0	+1.50	-0.63	101.9	10.0	11.0	4.0	385.0	129.0	+0.63	-0.00	4.2	6.0	132.0
472130	130	4.00	+0.00	-0.10	137.0	+1.50	-0.63	106.9	10.2	11.0	4.0	374.0	134.0	+0.63	-0.00	4.2	6.0	138.0
472135	135	4.00	+0.00	-0.10	142.0	+1.50	-0.63	111.5	10.5	11.2	4.0	358.0	139.0	+0.63	-0.00	4.2	6.0	143.0
472140	140	4.00	+0.00	-0.10	147.0	+1.50	-0.63	116.5	10.7	11.2	4.0	350.0	144.0	+0.63	-0.00	4.2	6.0	148.0
472145	145	4.00	+0.00	-0.10	152.0	+1.50	-0.63	121.0	10.9	11.4	4.0	336.0	149.0	+0.63	-0.00	4.2	6.0	153.0
472150	150	4.00	+0.00	-0.10	158.0	+1.50	-0.63	124.8	11.2	12.0	4.0	326.0	155.0	+0.63	-0.00	4.2	7.5	191.0
472155	155	4.00	+0.00	-0.10	164.0	+1.50	-0.63	129.8	11.4	12.0	4.0	324.0	160.0	+0.63	-0.00	4.2	7.5	206.0
472160	160	4.00	+0.00	-0.10	169.0	+1.50	-0.63	132.7	11.6	13.0	4.0	321.0	165.0	+0.63	-0.00	4.2	7.5	212.0
472165	165	4.00	+0.00	-0.10	174.5	+1.50	-0.63	137.7	11.8	13.0	4.0	319.0	170.0	+0.63	-0.00	4.2	7.5	219.0
472170	170	4.00	+0.00	-0.10	179.5	+1.50	-0.63	141.6	12.2	13.5	4.0	349.0	175.0	+0.63	-0.00	4.2	7.5	225.0
472175	175	4.00	+0.00	-0.10	184.5	+1.70	-0.72	146.6	12.7	13.5	4.0	351.0	180.0	+0.63	-0.00	4.2	7.5	232.0
472180	180	4.00	+0.00	-0.10	189.5	+1.70	-0.72	150.2	13.2	14.2	4.0	347.0	185.0	+0.72	-0.00	4.2	7.5	238.0
472185	185	4.00	+0.00	-0.10	194.5	+1.70	-0.72	155.2	13.7	14.2	4.0	349.0	190.0	+0.72	-0.00	4.2	7.5	245.0
472190	190	4.00	+0.00	-0.10	199.5	+1.70	-0.72	160.2	13.8	14.2	4.0	340.0	195.0	+0.72	-0.00	4.2	7.5	251.0
472195	195	4.00	+0.00	-0.10	204.5	+1.70	-0.72	165.2	13.8	14.2	4.0	330.0	200.0	+0.72	-0.00	4.2	7.5	258.0
472200	200	4.00	+0.00	-0.10	209.5	+1.70	-0.72	170.2	14.0	14.2	4.0	325.0	205.0	+0.72	-0.00	4.2	7.5	265.0
472205	205	5.00	+0.00	-0.12	217.0	+1.70	-0.72	175.2	14.0	14.2	4.0	616.0	211.0	+0.72	-0.00	5.2	9.0	326.0
472210	210	5.00	+0.00	-0.12	222.0	+1.70	-0.72	180.2	14.0	14.2	4.0	601.0	216.0	+0.72	-0.00	5.2	9.0	333.0
472215	215	5.00	+0.00	-0.12	227.0	+1.70	-0.72	185.2	14.0	14.2	4.0	586.0	221.0	+0.72	-0.00	5.2	9.0	341.0
472220	220	5.00	+0.00	-0.12	232.0	+1.70	-0.72	190.2	14.0	14.2	4.0	574.0	226.0	+0.72	-0.00	5.2	9.0	349.0
472225	225	5.00	+0.00	-0.12	237.0	+1.70	-0.72	195.2	14.0	14.2	4.0	560.0	231.0	+0.72	-0.00	5.2	9.0	357.0
472230	230	5.00	+0.00	-0.12	242.0	+1.70	-0.72	200.2	14.0	14.2	4.0	549.0	236.0	+0.72	-0.00	5.2	9.0	365.0
472235	235	5.00	+0.00	-0.12	247.0	+1.70	-0.72	205.2	14.0	14.2	4.0	536.0	241.0	+0.72	-0.00	5.2	9.0	373.0
472240	240	5.00	+0.00	-0.12	252.0	+2.00	-0.81	210.2	14.0	14.2	4.0	525.0	246.0	+0.72	-0.00	5.2	9.0	380.0
472245	245	5.00	+0.00	-0.12	257.0	+2.00	-0.81	215.2	14.0	14.2	4.0	514.0	251.0	+0.81	-0.00	5.2	9.0	389.0
472250	250	5.00	+0.00	-0.12	262.0	+2.00	-0.81	220.2	14.0	14.2	4.0	504.0	256.0	+0.81	-0.00	5.2	9.0	396.0
472255	255	5.00	+0.00	-0.12	270.0	+2.00	-0.81	221.0	16.0	16.2	5.0	549.0	263.0	+0.81	-0.00	5.2	12.0	541.0
472260	260	5.00	+0.00	-0.12	275.0	+2.00	-0.81	226.0	16.0	16.2	5.0	538.0	268.0	+0.81	-0.00	5.2	12.0	553.0
472265	265	5.00	+0.00	-0.12	280.0	+2.00	-0.81	231.0	16.0	16.2	5.0	528.0	273.0	+0.81	-0.00	5.2	12.0	563.0
472270	270	5.00	+0.00	-0.12	285.0	+2.00	-0.81	236.0	16.0	16.2	5.0	518.0	278.0	+0.81	-0.00	5.2	12.0	573.0
472275	275	5.00	+0.00	-0.12	290.0	+2.00	-0.81	241.0	16.0	16.2	5.0	509.0	283.0	+0.81	-0.00	5.2	12.0	585.0
472280	280	5.00	+0.00	-0.12	295.0	+2.00	-0.81	246.0	16.0	16.2	5.0	499.0	288.0	+0.81	-0.00	5.2	12.0	593.0
472285	285	5.00	+0.00	-0.12	300.0	+2.00	-0.81	251.0	16.0	16.2	5.0	491.0	293.0	+0.81	-0.00	5.2	12.0	605.0
472290	290	5.00	+0.00	-0.12	305.0	+2.00	-0.81	256.0	16.0	16.2	5.0	482.0	298.0	+0.81	-0.00	5.2	12.0	615.0

Retaunung rings for shafts
轴用挡圈

- DIN472
- Imperial size stand



Circlip Dimensions													Groove Dimensions					
Part no	Bore	(T)	Tolerance (D)			Tolerance		(C)	(X)	(L)	(H)	Fr KN	(G)	Tolerance		(W)	(N)	Fr KN
472295	295	5.00	+0.00	-0.12	310.0	+2.00	-0.81	261.0	16.0	16.2	5.0	474.0	303.0	+0.81	-0.00	5.2	12.0	625.0
472300	300	5.00	+0.00	-0.12	315.0	+2.00	-0.81	266.0	16.0	16.2	5.0	466.0	308.0	+0.81	-0.00	5.2	12.0	636.0
472310	310	5.00	+0.00	-0.18	327.0	+2.50	-1.00	268.0	20.0	20.2	6.0	947.0	320.0	+0.89	-0.00	6.2	15.0	823.0
472320	320	5.00	+0.00	-0.18	337.0	+2.50	-1.00	278.0	20.0	20.2	6.0	919.0	330.0	+0.89	-0.00	6.2	15.0	850.0
472330	330	5.00	+0.00	-0.18	347.0	+2.50	-1.00	288.0	20.0	20.2	6.0	894.0	340.0	+0.89	-0.00	6.2	15.0	876.0
472340	340	5.00	+0.00	-0.18	357.0	+2.50	-1.00	298.0	20.0	20.2	6.0	869.0	350.0	+0.89	-0.00	6.2	15.0	903.0
472350	350	5.00	+0.00	-0.18	367.0	+2.50	-1.00	308.0	20.0	20.2	6.0	846.0	360.0	+0.89	-0.00	6.2	15.0	929.0
472360	360	5.00	+0.00	-0.18	377.0	+2.50	-1.00	318.0	20.0	20.2	6.0	823.0	370.0	+0.89	-0.00	6.2	15.0	955.0
472370	370	5.00	+0.00	-0.18	387.0	+2.50	-1.00	328.0	20.0	20.2	6.0	803.0	380.0	+0.89	-0.00	6.2	15.0	981.0
472380	380	5.00	+0.00	-0.18	397.0	+2.50	-1.00	338.0	20.0	20.2	6.0	784.0	390.0	+0.89	-0.00	6.2	15.0	1008.0
472390	390	5.00	+0.00	-0.18	407.0	+2.50	-1.00	348.0	20.0	20.2	6.0	764.0	400.0	+0.89	-0.00	6.2	15.0	1033.0
472400	400	5.00	+0.00	-0.18	417.0	+2.50	-1.00	358.0	20.0	20.2	6.0	746.0	410.0	+1.00	-0.00	6.2	15.0	1060.0

Material:

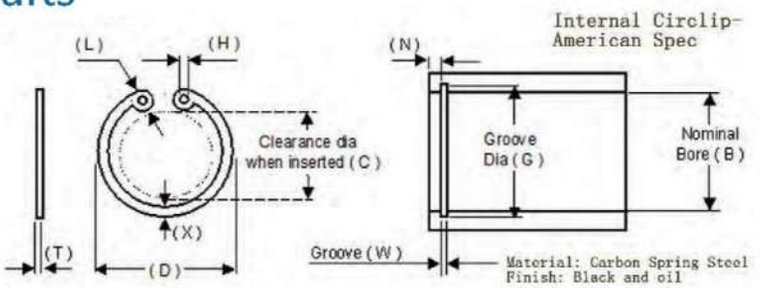
Spring steel S60C/ 65Mn/ SK5

Stainless steel SUS304 / 316 / 301 / 420

Surface treatment: Zinc /Black / Phosphating /Mechanical galvanizing

Retaunung rings for shafts
轴用挡圈

- DIN472
- Imperial size stand



Circlip Dimensions												Groove Dimensions					
Part no	Shaft		(T)		(D)		(C)	(X)	(L)	(H)	Force	(G)		(W)		(N)	Fr KN
	(N)	(N)	Inch	Tol	Inch	Tol	Inch	Inch	Inch	Inch	(ib f)	Inch	Tol	Inch	Tol	Inch	(ib f)
N130025	1/4"	0.250	.015		0.280		0.11	0.025	0.068	0.029	530	0.268	+.001	0.018	0.002	0.027	130
N130031	5/16	0.312	.015		0.346		0.17	0.033	0.069	0.029	660	0.330	-.001	0.018	0.000	0.027	160
N130037	3/8	0.375	.025		0.415		0.20	0.040	0.085	0.039	1320	0.397		0.029		0.033	235
N130043	7/16	0.438	.025		0.482		0.23	0.049	0.101	0.039	1550	0.461		0.029		0.036	285
N130045	29/64	0.453	.025		0.498	+.010	0.25	0.050	0.101	0.045	1600	0.477		0.029		0.036	310
N130050	1/2	0.500	.035		0.548	-.005	0.26	0.053	0.117	0.045	2470	0.530	+.002	0.039		0.045	425
N130056	9/16"	0.562	.035		0.620		0.28	0.053	0.137	0.045	2780	0.596	-.002	0.039	0.003	0.051	540
N130062	5/8	0.625	.035		0.694		0.35	0.060	0.138	0.060	3090	0.665		0.039	-	0.060	705
N130068	11/16	0.688	.035		0.763		0.41	0.063	0.137	0.060	3400	0.732		0.039		0.066	855
N130075	3/4	0.750	.035		0.831		0.45	0.070	0.147	0.060	3710	0.796		0.039	0.003	0.069	975
N130081	13/16	0.812	.042		0.901		0.49	0.077	0.160	0.060	4820	0.862		0.046		0.075	1150
N130087	7/8	0.875	.042	+.002	0.971	+.015	0.55	0.084	0.160	0.060	5190	0.920	+.003	0.046		0.084	1390
N130093	15/16	0.938	.042	-.002	1.041	-.010	0.61	0.091	0.160	0.060	5570	1.000	-.003	0.046		0.093	1640
N130100	1	1.000	.042		1.111		0.68	0.104	0.160	0.060	5940	1.066		0.046		0.099	1870
N130106	1.1/16	1.062	.050		1.180		0.69	0.110	0.185	0.076	7500	1.130		0.056		0.102	2040
N130112	1.1/8	1.125	.050		1.249		0.75	0.116	0.185	0.076	7950	1.197		0.056		0.108	2290
N130118	1.3/16	1.188	.050		1.319		0.81	0.120	0.185	0.076	8400	1.262		0.056		0.111	2490
N130125	1.1/4	1.250	.050		1.388	+.025	0.88	0.124	0.185	0.076	8850	1.330	+.004	0.056		0.120	2830
N130131	1.5/16	1.312	.050		1.456	-.020	0.94	0.130	0.185	0.076	9300	1.396	-.004	0.056		0.126	3120
N130137	1.3/8	1.375	.050		1.526		1.00	0.130	0.185	0.076	9700	1.461		0.056		0.129	3340
N130143	1.7/16	1.438	.050		1.593		1.06	0.133	0.185	0.076	10200	1.528		0.056		0.135	3660
N130150	1.1/2	1.500	.050		1.660		1.13	0.133	0.185	0.076	10600	1.594		0.056	0.004	0.141	3990
N130156	1.9/16	1.562	.062		1.734		1.15	0.160	0.205	0.076	11400	1.658		0.068	0.000	0.144	4240
N130162	1.5/8	1.625	.062		1.804		1.21	0.160	0.205	0.076	11800	1.725		0.068		0.150	4590
N130168	1.11/16	1.688	.062		1.874		1.27	0.170	0.205	0.076	12300	1.792		0.068		0.156	4960
N130175	1.3/4	1.750	.062		1.942	+.035	1.34	0.175	0.205	0.076	12800	1.858	+.005	0.068		0.162	5340
N130181	1.13/16	1.812	.062		2.012	-.025	1.40	0.170	0.205	0.091	13200	1.922	-.005	0.068		0.165	5630
N130187	1.7/8	1.875	.062		2.072		1.48	0.170	0.205	0.091	13700	1.989		0.068		0.171	6040
N130193	1.15/16	1.938	.062		2.141		1.52	0.165	0.205	0.091	14100	2.056		0.068		0.177	6470
N130200	2.00	2.000	.062		2.210		1.59	0.170	0.205	0.091	14600	2.122		0.068		0.183	6900
N130206	2.1/16	2.062	.078		2.280		1.61	0.186	0.225	0.091	18900	2.186		0.086		0.186	7230
N130212	2.1/8	2.125	.078		2.350		1.65	0.195	0.236	0.091	19500	2.251		0.086		0.189	7570
N130218	2.3/16	2.188	.078		2.415		1.71	0.199	0.236	0.091	20000	2.318		0.086		0.195	8040
N130225	2.1/4	2.250	.078		2.490		1.77	0.203	0.236	0.091	20600	2.382		0.086		0.198	8400
N130231	2.5/16	2.312	.078		2.560		1.84	0.205	0.236	0.091	21200	2.450		0.086		0.207	9020
N130237	2.3/8	2.375	.078		2.630		1.90	0.207	0.236	0.091	21700	2.517		0.086		0.213	9540
N130244	2.7/16	2.440	.078		2.702	+.035	1.96	0.205	0.236	0.108	22300	2.584		0.086		0.216	10100
N130250	2.1/2	2.500	.078		2.775	-.025	2.02	0.210	0.236	0.108	22900	2.648		0.086		0.222	1300
N130256	2.9/16	2.562	.093	+.003	2.844		2.02	0.222	0.268	0.108	28000	2.714		0.103		0.228	11000
N130262	2.5/8	2.625	.093	-.003	2.910		2.08	0.226	0.268	0.108	28600	2.781		0.103		0.234	11600
N130268	2.11/16	2.688	.093		2.980		2.15	0.236	0.268	0.108	29300	2.848		0.103		0.240	12200
N130275	2.3/4	2.750	.093		3.050		2.18	0.234	0.284	0.108	30000	2.914		0.103		0.246	12800
N130281	2.13/16	2.812	.093		3.121		2.24	0.230	0.284	0.108	30800	2.980	+.006	0.103	0.005	0.252	13400
N130287	2.7/8	2.875	.093		3.191		2.30	0.240	0.284	0.108	31500	3.051	-.006	0.103	0.000	0.264	14300
N130300	3.00	3.000	.093		3.325		2.43	0.250	0.284	0.108	32900	3.182		0.103		0.273	15400
N130306	3.1/16	3.062	.109		3.418		2.46	0.254	0.299	0.123	39300	3.182		0.120		0.279	16100
N130312	3.1/8	3.125	.109		3.488		2.52	0.260	0.299	0.123	40100	3.315		0.120		0.285	16800
N130325	3.1/4	3.250	.109		3.623	+.055	2.65	0.269	0.299	0.123	41700	3.446		0.120		0.294	18000
N130334	3.11/32	3.346	.109		3.734	-.065	2.69	0.276	0.323	0.123	43000	3.546		0.120		0.300	18900
N130347	3.15/32	3.469	.109		3.857		2.77	0.294	0.350	0.123	44500	3.675		0.120		0.309	20200
N130350	3.1/2	3.500	.109		3.890		2.80	0.294	0.350	0.123	44900	3.710		0.120		0.315	20800
N130362	3.5/8	3.625	.109		4.024		2.92	0.298	0.350	0.123	46500	3.841		0.120		0.324	22100
N130375	3.3/4	3.750	.109		4.157		3.04	0.309	0.350	0.123	48200	3.974		0.120		0.336	23700
N130387	3.7/8	3.875	.109		4.291	+.065	3.17	0.312	0.350	0.123	49800	4.107		0.120		0.348	25400
N130393	3.15/1	3.938	.109		4.358	-.065	3.23	0.319	0.35	0.123	50600	4.174		0.120		0.354	26300
N130400	4.00	4.000	.109		4.424		3.24	0.330	0.378	0.123	51400	4.240		0.120		0.360	27100