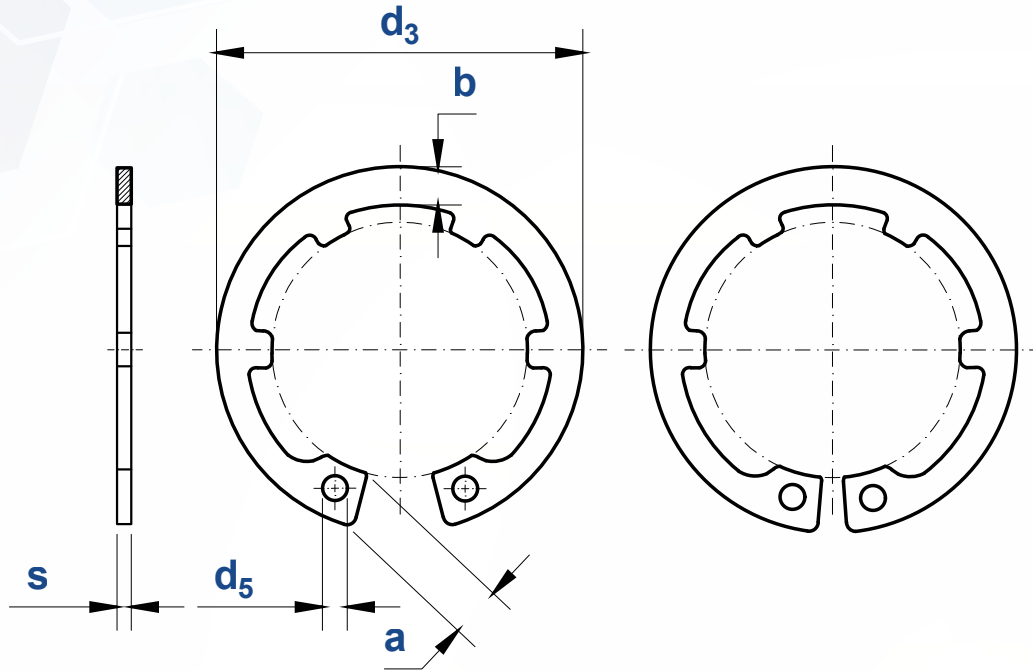




Bore Diameter d_0		16	17	18	19	20	22	23	24	25	26	27	28	30
s	max=nominal size	1	1	1	1	1	1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	min	0.94	0.94	0.94	0.94	0.94	0.94	1.14	1.14	1.14	1.14	1.14	1.14	1.14
d₃	Nominal Size	17.3	18.3	19.5	20.5	21.5	23.5	24.6	25.9	26.9	28.5	29.1	30.1	32.1
	max	17.66	18.72	19.92	20.92	21.92	23.92	25.02	26.32	27.32	28.92	29.6	30.6	32.6
	min	17.2	18.17	19.37	20.37	21.37	23.37	24.39	25.69	26.69	28.29	28.85	29.85	31.85
a	max	3.4	3.7	3.8	3.8	3.9	4.0	4.1	4.2	4.4	4.4	4.5	4.9	4.9
b ②	≈	2	2.1	2.2	2.2	2.3	2.5	2.6	2.6	2.7	2.8	2.9	2.9	3
d₅	min	1.7	1.7	1.7	2	2	2	2	2	2	2	2	2	2
per 1000 units ≈ kg		0.72	0.80	0.90	0.99	1.06	1.28	1.48	1.60	1.72	2.00	2.00	2.10	2.35

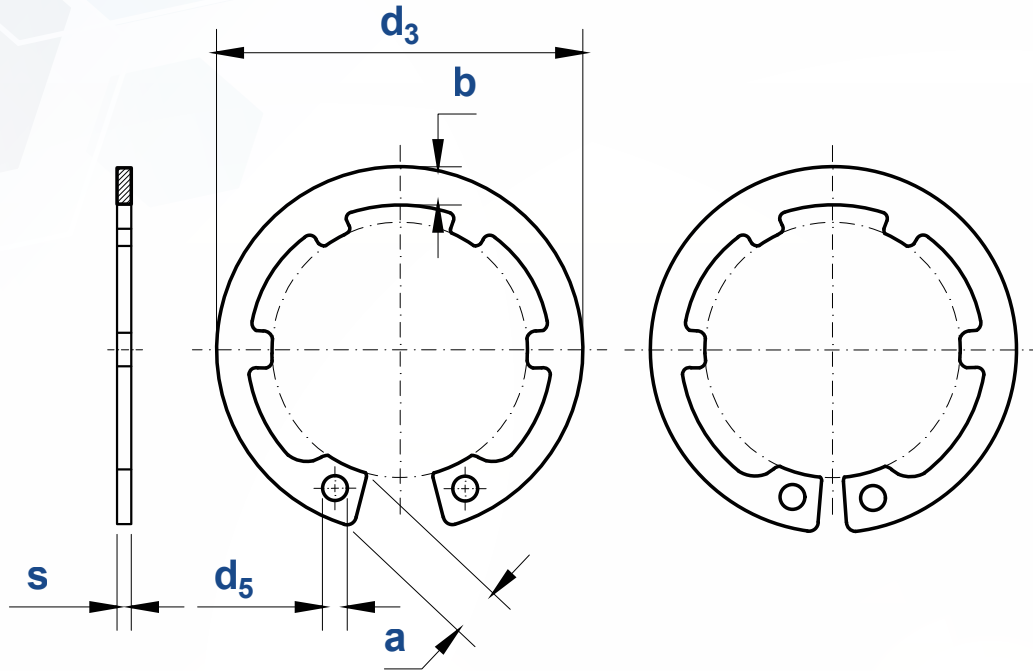
Bore Diameter d_0		32	35	36	38	40	42	44	45	47	48	50	52	55
s	max=nominal size	1.2	1.5	1.5	1.5	1.75	1.75	1.75	1.75	1.75	1.75	2	2	2
	min	1.14	1.44	1.44	1.44	1.69	1.69	1.69	1.69	1.69	1.69	1.93	1.93	1.93
d₃	Nominal Size	34.4	37.8	38.8	40.8	43.5	45.5	47.5	48.5	50.5	51.5	54.2	56.2	59.2
	max	34.9	38.3	39.3	41.3	44.4	46.4	48.4	49.4	51.6	52.6	55.3	57.3	60.3
	min	34.15	37.55	38.55	40.55	43.11	45.11	47.11	48.11	50.04	51.04	53.74	55.74	58.74
a	max	5.1	5.5	5.6	6.1	7.2	7.2	7.2	7.2	7.2	7.2	8.2	8.2	8.2
b ②	≈	3.2	3.4	3.5	3.7	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	5
d₅	min	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
per 1000 units ≈ kg		2.50	4.00	4.15	4.40	5.30	6.00	6.45	6.60	6.90	7.50	8.50	9.40	9.75

①, Material:
Spring steel C67S or C75S according to DIN EN ISO 10132-4 (at the choice of the manufacturer)

Hardness:
Shaft diameter ≤ 48 mm, 470 HV bis 580 HV oder 47 HRC bis 54 HRC;
48 mm < Shaft diameter ≤ 140 mm, 435 HV to 530 HV or 44 HRC to 51 HRC.

Note: Hardness values converted according to DIN EN ISO 18265.

②, Dimension b must not exceed dimension a(max).



Bore Diameter d_0		57	58	60	62	65	67	70	72	75	80	85	90	95
s	max=nominal size	2	2	2	2	2.5	2.5	2.5	2.5	2.5	2.5	3	3	3
	min	1.93	1.93	1.93	1.93	2.43	2.43	2.43	2.43	2.43	2.43	2.92	2.92	2.92
d ₃	Nominal Size	61.2	62.2	64.2	66.2	69.2	71.5	74.5	76.5	79.5	85.5	90.5	95.5	100.5
	max	62.3	63.3	65.3	67.3	70.3	72.6	75.6	77.6	80.6	86.8	91.8	96.8	101.8
	min	60.74	61.74	63.74	65.74	68.74	71.04	74.04	76.04	79.04	84.96	89.96	94.96	99.96
a	max	8.2	8.2	8.2	8.2	9.5	10.2	10.2	10.2	10.2	10.2	12.2	12.2	12.2
b ^②	≈	5.1	5.2	5.4	5.5	5.8	6	6.2	6.4	6.6	7	7.2	7.6	8.1
d ₅	min	2.5	2.5	2.5	2.5	3	3	3	3	3	3	3.5	3.5	3.5
per 1000 units ≈ kg		11.6	12.0	12.7	12.8	16.7	18.6	20.2	21.2	22.6	25.0	30.1	35.5	40.0

Bore Diameter d_0		100	110	115	120	125	130	140	150	160	170
s	max=nominal size	3	4	4	4	4	4	4	4	4	4
	min	2.92	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
d ₃	Nominal Size	105.5	117	122	127	132	137	147	158	169	179.5
	max	106.8	118.3	123.5	128.5	133.5	138.5	148.5	159.5	170.5	181
	min	104.96	116.46	121.37	126.37	131.37	136.37	146.37	157.37	168.37	178.87
a	max	12.2	12.2	12.2	12.2	12.2	12.2	14.2	14.2	14.2	14.2
b ^②	≈	8.4	9	9.3	9.7	10	10.2	10.7	11.2	11.6	12.2
d ₅	min	3.5	3.5	3.5	3.5	4	4	4	4	4	4
per 1000 units ≈ kg		43.5	73.0	82.0	87.0	92.0	102	112	123	133	145

①, Material:
Spring steel C67S or C75S according to DIN EN ISO 10132-4 (at the choice of the manufacturer)

Hardness:
Shaft diameter ≤ 48 mm, 470 HV bis 580 HV oder 47 HRC bis 54 HRC;
48 mm < Shaft diameter ≤ 140 mm, 435 HV to 530 HV or 44 HRC to 51 HRC.

Note: Hardness values converted according to DIN EN ISO 18265.

②, Dimension b must not exceed dimension a(max).