

Inch radial retaining rings

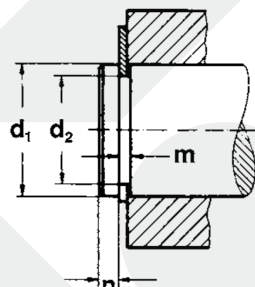
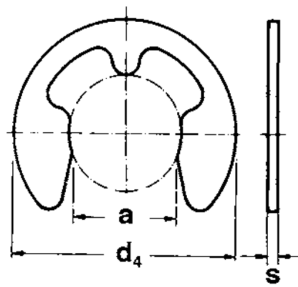
Select a technical variant and compare the configuration dimensions.

Reference: Dedicated geometry · Application: Shafts



Representative image of this ring type.

Technical drawing



d1	Shaft diameter: application range
d2	Groove diameter
d4	Outside diameter of the unstressed ring
a	Opening of the unstressed ring
s	Ring thickness
m	Groove width
n	Distance from groove edge to shaft end

Type NRA radial ring: three-point ring geometry. Use only the inch-series dimensions in the table; do not substitute metric DIN 6799 dimensions.

Variants and dimensional data

Size / reference mm	Thickness / wire mm
1.58	0.254
2.39	0.381
3.18	0.381
3.56	0.635
3.96	0.635
4.78	0.635
6.35	0.635
9.53	0.889
11.13	0.889
12.7	1.0668
15.88	1.0668
19.05	1.27
22.23	1.27
25.4	1.27

Reference nominal dimensions. “-” means undocumented, not zero. Inch dimensions are shown separately.

Reference mm	d1	s
1.58	0.062	0.010
11.13	0.438	0.035
12.7	0.500	0.042
15.88	0.625	0.042
19.05	0.750	0.050
2.39	0.094	0.015
22.23	0.875	0.050
25.4	1.000	0.050
3.18	0.125	0.015
3.56	0.140	0.025
3.96	0.156	0.025
4.78	0.188	0.025

Reference mm	d1	s
6.35	0.250	0.025
9.53	0.375	0.035

Reference	d2	Tolerance + / -	m	m tol.	n min
1.58	1.3208	-	-	- / -	-
2.39	1.8796	-	-	- / -	-
3.18	2.413	-	-	- / -	-
3.56	2.667	-	-	- / -	-
3.96	2.9464	-	-	- / -	-
4.78	3.7338	-	-	- / -	-
6.35	5.334	-	-	- / -	-
9.53	7.6962	-	-	- / -	-
11.13	8.7122	-	-	- / -	-
12.7	10.0584	-	-	- / -	-
15.88	12.319	-	-	- / -	-
19.05	14.732	-	-	- / -	-
22.23	17.145	-	-	- / -	-
25.4	21.209	-	-	- / -	-

Materials and finishes

Selection and application

Installed laterally relative to the shaft axis. For DIN 6799, the ring designation refers to the groove diameter; the compatible shaft diameter is a separate range. Check both before selecting a variant.

Other materials and finishes are available on request. Configuration and supply are confirmed against the specific enquiry.

Size / reference mm	Thickness / wire mm	Material	Finish
1.58	0.254	Steel	Phosphated or blackened, oiled
2.39	0.381	Steel	Phosphated or blackened, oiled
3.18	0.381	Steel	Phosphated or blackened, oiled
3.56	0.635	Steel	Phosphated or blackened, oiled
3.96	0.635	Steel	Phosphated or blackened, oiled
4.78	0.635	Steel	Phosphated or blackened, oiled
6.35	0.635	Steel	Phosphated or blackened, oiled
9.53	0.889	Steel	Phosphated or blackened, oiled
11.13	0.889	Steel	Phosphated or blackened, oiled
12.7	1.0668	Steel	Phosphated or blackened, oiled
15.88	1.0668	Steel	Phosphated or blackened, oiled
19.05	1.27	Steel	Phosphated or blackened, oiled
22.23	1.27	Steel	Phosphated or blackened, oiled
25.4	1.27	Steel	Phosphated or blackened, oiled