

Retaining Ring (Circlip) — ISO / DIN (Series 149) — ISO / DIN

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[Fasteners/ Retaining Rings/ Retaining Ring \(Circlip\) — ISO / DIN \(Series 149\)](#)

Retaining Rings · CAD Retaining Rings

Retaining Ring (Circlip) — ISO / DIN (Series 149) to ISO / DIN. Full dimensional table, materials, finishes and quotation. 12 sizes listed.



Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Sends the selected values to the quote form below.

Request a Quotation for Retaining Ring (Circlip) — ISO / DIN (Series 149)

Tell us the size, material, finish and quantity you need for Retaining Ring (Circlip) — ISO / DIN (Series 149) (ISO / DIN) and our team will respond within one business day. Click "Request this configuration" on the drawing above to send the parameters you just chose straight into this form.

Category Type Standard Thread size Material Finish

Dimensions & Specifications (ISO / DIN)

Every row below is a starting point for the customizer above — pick any size and the drawing will redraw to that row.

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Type	Reference standard
8	7.4	7.1	0.8	External	DIN 471 / GB/T 894
10	9.3	9.0	1.0	External	DIN 471 / GB/T 894
12	11.1	10.8	1.0	External	DIN 471 / GB/T 894
16	15.0	14.7	1.0	External	DIN 471 / GB/T 894
20	19.0	18.7	1.2	External	DIN 471 / GB/T 894
25	23.9	23.6	1.2	External	DIN 471 / GB/T 894
30	28.9	28.6	1.5	External	DIN 471 / GB/T 894
40	38.5	38.2	1.75	External	DIN 471 / GB/T 894
50	48.5	48.2	2.0	External	DIN 471 / GB/T 894
60	58.3	58.0	2.0	External	DIN 471 / GB/T 894
80	78.0	77.7	2.5	External	DIN 471 / GB/T 894
100	98.0	97.7	3.0	External	DIN 471 / GB/T 894

Manufactured to ISO / DIN, Retaining Ring (Circlip) — ISO / DIN (Series 149) are retaining rings supplied by engineeringhardware.com. The dimensional data, materials and selection notes are summarized here.

What Are Retaining Ring (Circlip) — ISO / DIN (Series 149)?

Retaining Ring (Circlip) — ISO / DIN (Series 149) are retaining rings defined by ISO / DIN. They are selected by thread size and the dimensional characteristics shown below, and are available in a range of materials and finishes to suit the application and

environment.

CAD Source Reference

This page is generated from an original native CAD part model (SolidWorks .SLDPRT) of the retaining ring (circlip) — iso / din (series 149) family maintained by our engineering team, covering 2 recorded size configurations. The technical drawing shown above is rebuilt parametrically from the dimensional table, so it always reflects the exact size and configuration you select. Native CAD files (STEP / SLDPRPT) can be supplied with your quotation on request.

Materials & Finishes

Common materials include carbon steel (typically zinc plated or hot-dip galvanized), alloy steel in property classes 8.8, 10.9 and 12.9, and stainless steel A2 (304) or A4 (316) for corrosion resistance. Specify the material, property class and surface finish appropriate to your load and environment.

Typical Applications

Axial retention of bearings, gears and shafts in housings and on shafts. [Read the full application guide for Retaining Ring \(Circlip\) — ISO / DIN \(Series 149\) →](#)

Related Fasteners

- [Retaining Ring \(Circlip\) — ISO / DIN \(Series 151\) — ISO / DIN](#)
- [Retaining Ring \(Circlip\) — ISO / DIN \(Series 148\) — ISO / DIN](#)
- [Retaining Ring \(Circlip\) — ISO / DIN \(Series 147\) — ISO / DIN](#)
- [Retaining Rings \(Circlips\) — DIN 471 / DIN 472](#)
- [E-Clips \(External Snap Rings\) — DIN 6799](#)

Pricing

Retaining Ring (Circlip) — ISO / DIN (Series 149) are stocked and supplied to order. Pricing starts from approximately US\$0.030 per piece for standard sizes in carbon steel; final pricing depends on size, material, finish and order quantity (MOQ applies). Submit your exact configuration with the quote form above.

Frequently Asked Questions

What standard and drive type do Retaining Ring (Circlip) — ISO / DIN (Series 149) use?

Retaining Ring (Circlip) — ISO / DIN (Series 149) are manufactured to ISO / DIN and use the standard drive for this product family. The dimensional values on this page follow that standard.

What sizes are available for Retaining Ring (Circlip) — ISO / DIN (Series 149)?

The table on this page lists 12 sizes for Retaining Ring (Circlip) — ISO / DIN (Series 149), ranging from 8 to 100. Sizes outside the table can be quoted on request.

In which materials are Retaining Ring (Circlip) — ISO / DIN (Series 149) supplied?

Retaining Ring (Circlip) — ISO / DIN (Series 149) are supplied in spring steel, with finishes including zinc plating, hot-dip galvanizing and black oxide. Choose material and finish to suit the load and the service environment for Retaining Ring (Circlip) — ISO / DIN (Series 149).

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from engineeringhardware.com will respond within one business day.

More Retaining Rings

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