

Retaining Rings (Circlips) — DIN 471 / DIN 472

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[Retaining Rings · Retaining Rings \(Circlips\)](#)

Retaining Rings (Circlips) to DIN 471 / DIN 472. Full dimensional table, materials, finishes and quotation. 70 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 Rings (Circlips)

Tell us the size, material, finish and quantity you need for Retaining Rings (Circlips) (DIN 471 / DIN 472) 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 (DIN 471 / DIN 472)

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)	Groove depth ref (mm)	Type / standard
3	2.7	2.5	0.4	3.5	DIN 471 external
4	3.7	3.4	0.4	4.5	DIN 471 external
5	4.7	4.4	0.6	5.5	DIN 471 external
6	5.6	5.3	0.7	6.5	DIN 471 external
7	6.5	6.2	0.8	7.5	DIN 471 external
8	7.4	7.1	0.8	8.5	DIN 471 external
9	8.4	8.1	1.0	9.5	DIN 471 external
10	9.3	9.0	1.0	10.5	DIN 471 external
11	10.2	9.9	1.0	11.5	DIN 471 external
12	11.1	10.8	1.0	12.5	DIN 471 external
14	13.0	12.7	1.0	14.5	DIN 471 external
15	14.0	13.7	1.0	15.5	DIN 471 external
16	15.0	14.7	1.0	16.5	DIN 471 external
17	16.0	15.7	1.0	17.5	DIN 471 external
18	17.0	16.7	1.2	18.5	DIN 471 external
19	18.0	17.7	1.2	19.5	DIN 471 external

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
20	19.0	18.7	1.2	20.5	DIN 471 external
22	21.0	20.7	1.2	22.5	DIN 471 external
24	22.9	22.6	1.2	24.5	DIN 471 external
25	23.9	23.6	1.2	25.5	DIN 471 external
28	26.9	26.6	1.5	29.0	DIN 471 external
30	28.9	28.6	1.5	31.0	DIN 471 external
32	30.9	30.6	1.5	33.0	DIN 471 external
35	33.8	33.5	1.5	36.0	DIN 471 external
40	38.5	38.2	1.75	41.0	DIN 471 external
45	43.5	43.2	1.75	46.0	DIN 471 external
50	48.5	48.2	2.0	51.0	DIN 471 external
55	53.3	53.0	2.0	56.5	DIN 471 external
60	58.3	58.0	2.0	61.5	DIN 471 external
65	63.3	63.0	2.5	67.0	DIN 471 external
70	68.3	68.0	2.5	72.0	DIN 471 external
75	73.3	73.0	2.5	77.0	DIN 471 external

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
80	78.0	77.7	2.5	82.0	DIN 471 external
85	83.0	82.7	3.0	87.0	DIN 471 external
90	88.0	87.7	3.0	92.0	DIN 471 external
95	93.0	92.7	3.0	97.0	DIN 471 external
100	98.0	97.7	3.0	102.0	DIN 471 external
8	8.4	8.7	0.8	7.5	DIN 472 internal
9	9.4	9.7	1.0	8.5	DIN 472 internal
10	10.4	10.7	1.0	9.5	DIN 472 internal
11	11.4	11.7	1.0	10.4	DIN 472 internal
12	12.5	12.8	1.0	11.4	DIN 472 internal
13	13.5	13.8	1.0	12.4	DIN 472 internal
14	14.5	14.8	1.0	13.4	DIN 472 internal
15	15.5	15.8	1.0	14.3	DIN 472 internal
16	16.5	16.8	1.0	15.3	DIN 472 internal
17	17.5	17.8	1.0	16.3	DIN 472 internal
18	18.5	18.8	1.2	17.2	DIN 472 internal

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
19	19.5	19.8	1.2	18.2	DIN 472 internal
20	20.5	20.8	1.2	19.2	DIN 472 internal
22	22.5	22.9	1.2	21.2	DIN 472 internal
24	24.5	24.9	1.2	23.2	DIN 472 internal
25	25.5	25.9	1.2	24.2	DIN 472 internal
28	28.6	29.0	1.5	27.0	DIN 472 internal
30	30.6	31.0	1.5	29.0	DIN 472 internal
32	32.6	33.0	1.5	31.0	DIN 472 internal
35	35.7	36.1	1.5	34.0	DIN 472 internal
40	40.8	41.3	1.75	39.0	DIN 472 internal
45	45.8	46.3	1.75	44.0	DIN 472 internal
50	51.0	51.5	2.0	49.0	DIN 472 internal
55	56.0	56.5	2.0	54.0	DIN 472 internal
60	61.0	61.5	2.0	59.0	DIN 472 internal
65	66.2	66.8	2.5	64.0	DIN 472 internal
70	71.2	71.8	2.5	69.0	DIN 472 internal

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
75	76.2	76.8	2.5	74.0	DIN 472 internal
80	81.2	81.8	2.5	79.0	DIN 472 internal
85	86.5	87.1	3.0	84.0	DIN 472 internal
90	91.5	92.1	3.0	89.0	DIN 472 internal
95	96.5	97.1	3.0	94.0	DIN 472 internal
100	101.5	102.1	3.0	99.0	DIN 472 internal

Retaining Rings (Circlips) are retaining rings manufactured to DIN 471 / DIN 472. This page lists the full dimensional range with the key specifications engineers need to select and specify them.

What Are Retaining Rings (Circlips)?

Retaining Rings (Circlips) are retaining rings defined by DIN 471 / DIN 472. 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.

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 Rings \(Circlips\)](#)

→

Related Fasteners

- [Retaining Ring \(Circlip\) — ISO / DIN \(Series 149\) — ISO / DIN](#)
- [Retaining Ring \(Circlip\) — ISO / DIN \(Series 148\) — ISO / DIN](#)

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

Pricing

Retaining Rings (Circlips) 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 Rings (Circlips) use?

Retaining Rings (Circlips) are manufactured to DIN 471 / DIN 472 and use the standard drive for this product family. The dimensional values on this page follow that standard.

What is the size range of Retaining Rings (Circlips)?

The table on this page lists 70 sizes for Retaining Rings (Circlips), ranging from 3 to 100. Sizes outside the table can be quoted on request.

In which materials are Retaining Rings (Circlips) supplied?

Retaining Rings (Circlips) 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 Rings (Circlips).

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

[← Previous E-Clips \(External Snap Rings\) DIN 6799](#) [Next → Retaining Ring \(Circlip\) — ISO / DIN \(Series 147\) ISO / DIN](#)