

DIN 472 Retaining Rings (Circlips) Specification

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[Fasteners/Retaining Rings/Retaining Rings \(Circlips\)](#) · DIN 472 Retaining Rings (Circlips) Specification

[Retaining Rings](#) · DIN 471 / DIN 472

Dimensional table, tolerance classes and the DIN / ISO / ASME parts that supersede or match this standard

DIN 472 specifies the dimensions and tolerances for retaining rings (circlips). The full dimensional table is reproduced below, followed by the DIN, ISO and ASME parts that match or supersede it.

Standard

DIN 472

Product

Retaining Rings (Circlips)

Governing standards

DIN 471 / DIN 472

Equivalence between national standards is dimensional, not always metallurgical. Check the property class separately when substituting.



For retaining rings (circlips), DIN 472 is the governing document for the dimensions listed below. Mechanical and performance requirements for this part family are set by its own standards, not by the bolt and screw property-class documents.

DIN 472 — Scope

DIN 472 specifies the dimensional requirements for retaining rings (circlips). Material, surface condition and any performance rating are set by separate documents specific to this part family — ISO 898-1 and ISO 898-2, which govern bolt and nut property classes, do not apply here.

Tolerance & Product Grades

Tolerances for retaining rings (circlips) are given as limits on the individual dimensions in the table rather than as a fastener product grade. Where a general-tolerance class is cited on the drawing instead, it applies to the dimensions not otherwise toleranced.

Dimensions Specified by DIN 472

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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
19	18.0	17.7	1.2	19.5	DIN 471 external
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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
75	73.3	73.0	2.5	77.0	DIN 471 external
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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
18	18.5	18.8	1.2	17.2	DIN 472 internal
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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
70	71.2	71.8	2.5	69.0	DIN 472 internal
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

Equivalent Standards

Where direct equivalents exist (ISO ↔ DIN, ISO ↔ ASME), they are listed on the parent Retaining Rings (Circlips) page. Always confirm against the dimensions on this page, since some "equivalent" standards differ in tolerances and head geometry.

When to Specify DIN 472

DIN 472 is still widely used in European mechanical engineering and as a cross-reference on legacy drawings; its ISO equivalent is preferred for new designs.

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 Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (DIN 471 / DIN 472)

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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
18	17.0	16.7	1.2	18.5	DIN 471 external
19	18.0	17.7	1.2	19.5	DIN 471 external
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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
70	68.3	68.0	2.5	72.0	DIN 471 external
75	73.3	73.0	2.5	77.0	DIN 471 external
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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
17	17.5	17.8	1.0	16.3	DIN 472 internal
18	18.5	18.8	1.2	17.2	DIN 472 internal
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

Nominal diameter (mm)	Ring diameter d1 (mm)	Groove diameter d2 (mm)	Thickness s (mm)	Groove depth ref (mm)	Type / standard
65	66.2	66.8	2.5	64.0	DIN 472 internal
70	71.2	71.8	2.5	69.0	DIN 472 internal
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

Materials & Grades

Select a material class to see the grades we supply it in. Each designation is listed with its ISO/EN, AISI/SAE, JIS and GB equivalents.

[Stainless Steel](#)
[38 Carbon Steel](#)
[66 Alloy Steel](#)
[41 Bearing Steel](#)
[5 Spring Steel](#)
[25 Aluminum and Aluminum Alloys](#)
[21 Brass](#)
[17 Bronze](#)
[11 Copper](#)
[8 Titanium and Titanium Alloys](#)
[18 Nickel and Nickel Alloys](#)
[22 Iron-Nickel and High-Temperature Alloys](#)
[10 Tool Steel and Specialty Hardened Steel](#)
[9 Structural and Construction Steel](#)
[9](#)

Stainless Steel

Austenitic Stainless Steel

- A1 AISI 303 · SAE 303 · SUS303 · EN 1.4305 · X8CrNiS18-9
- A2 AISI 304 · SAE 304 · SUS304 · EN 1.4301 · X5CrNi18-10 · 06Cr19Ni10
- 304L AISI 304L · SUS304L · EN 1.4307 · X2CrNi18-9 · 022Cr19Ni10
- 302 AISI 302 · SUS302 · EN 1.4310
- 305 AISI 305 · SUS305 · EN 1.4303
- A4 AISI 316 · SAE 316 · SUS316 · EN 1.4401 · X5CrNiMo17-12-2 · 06Cr17Ni12Mo2
- 316L AISI 316L · SUS316L · EN 1.4404 · X2CrNiMo17-12-2 · 022Cr17Ni12Mo2

- 321 AISI 321 · SUS321 · EN 1.4541 · X6CrNiTi18-10
- 310 / 310S AISI 310 · AISI 310S · SUS310S · EN 1.4845
- 302HQ AISI 302HQ
- A3
- A5
- 347 AISI 347 · SUS347 · EN 1.4550 · X6CrNiNb18-10
- 309 / 309S AISI 309 · AISI 309S · SUS309S

Martensitic Stainless Steel

- AISI 410 SUS410 · EN 1.4006 · X12Cr13 · 12Cr13
- AISI 420 SUS420J1 · SUS420J2 · EN 1.4021 · EN 1.4028 · 20Cr13 · 30Cr13
- AISI 431 SUS431 · EN 1.4057 · X17CrNi16-2
- C1
- C3
- C4
- AISI 440A
- AISI 440B
- AISI 440C SUS440C · EN 1.4125

Ferritic Stainless Steel

- AISI 430 SUS430 · EN 1.4016 · X6Cr17 · 10Cr17
- F1
- AISI 434
- AISI 444

Precipitation-Hardening Stainless Steel

- 17-4 PH AISI 630 · UNS S17400 · SUS630 · EN 1.4542 · X5CrNiCuNb16-4
- 15-5 PH UNS S15500
- 17-7 PH UNS S17700

Duplex and Super Duplex Stainless Steel

- Duplex 2205 UNS S31803 · UNS S32205 · EN 1.4462
- Super Duplex 2507 UNS S32750 · EN 1.4410
- D2
- D4
- D6

- D8
- Lean Duplex 2101 UNS S32101
- Super Duplex S32760 UNS S32760 · EN 1.4501

Carbon Steel

Low-Carbon Steel

- SAE 1006
- SAE 1008
- SAE 1010
- SAE 1018
- SAE 1020
- Q195
- Q235
- SAE 1012
- SAE 1015
- Q215
- ML08
- ML08AI
- ML10
- ML15
- ML20
- SWRCH6A
- SWRCH8A
- SWRCH10A
- SWRCH12A
- SWRCH15A
- SWRCH18A

Medium-Carbon Steel

- SAE 1035
- SAE 1045
- S45C
- C45
- SAE 1030
- SAE 1040

- SAE 1050
- 30
- 35
- 40
- 45
- 50
- S35C
- S40C
- S50C
- C35
- C40

High-Carbon Steel

- SAE 1060
- SAE 1070
- 65Mn
- SAE 1065
- SAE 1075
- SAE 1080
- SAE 1085
- SAE 1090
- SAE 1095
- 60
- 65
- 70
- 75
- 80
- 85

Cold-Heading Steel

- SWRCH22A
- 10B21
- SWRCH22K
- SWRCH25K
- SWRCH30K
- SWRCH35K

- SWRCH40K
- ML20Mn
- ML25
- ML30
- ML35
- ML40
- 15B25

Alloy Steel

Chromium Steel

- 40Cr
- 45Cr
- AISI 5140
- SAE 5140
- AISI 5120
- SAE 5120
- SCr420
- SCr440

Chromium-Molybdenum Steel

- 35CrMo
- 42CrMo
- AISI 4140
- SCM435
- SCM440
- 42CrMo4
- 30CrMo
- AISI 4130
- SAE 4130
- SAE 4140
- AISI 4142
- AISI 4145
- SCM415
- SCM420
- SCM445

- EN 1.7220
- EN 1.7225
- 25CrMo4
- 34CrMo4

Nickel-Chromium-Molybdenum Steel

- AISI 4340
- SAE 4340
- 40CrNiMo
- SNCM439
- EN 1.6511
- 36CrNiMo4

Boron Alloy Steel

- 10B22
- 10B21
- 15B21
- 15B25
- 20MnTiB
- 20Mn2B
- 35VB
- 40MnB

Bearing Steel

Bearing Steel

- GCr15
- AISI 52100 SAE 52100 · UNS G52986
- SUJ2
- 100Cr6 EN 1.3505
- GCr15SiMn

Spring Steel

Carbon Spring Steel

- SAE 1065

- SAE 1070
- SAE 1075
- SAE 1080
- SAE 1095
- 65
- 70
- 75
- 80
- 65Mn

Silicon-Manganese Spring Steel

- 60Si2Mn
- 60Si2MnA
- SUP6
- SUP7

Chromium-Vanadium Spring Steel

- 50CrVA
- SAE 6150
- AISI 6150
- SUP10

Stainless Spring Steel

- AISI 301
- SUS301
- EN 1.4310
- AISI 302
- AISI 304
- AISI 316
- 17-7 PH

Aluminum and Aluminum Alloys

Commercially Pure Aluminum

- 1050
- 1060

- 1070
- 1100

2xxx Series Aluminum

- 2024
- 2011
- 2014
- 2017

5xxx Series Aluminum

- 5052
- 5083
- 5754

6xxx Series Aluminum

- 6061
- 6061-T6
- 6063
- 6082
- 6082-T6

7xxx Series Aluminum

- 7075
- 7075-T6
- 7005
- 7050
- 7075-T73

Brass

Free-Cutting Brass

- C36000
- H62
- HPb59-1
- C3601
- C3602

- C3604
- CuZn36Pb3
- CuZn39Pb3
- EN CW614N
- EN CW617N
- H65

Lead-Free Brass

- C69300
- C27450
- CW510L
- CW511L

Naval Brass

- C46400
- CuZn39Sn1

Bronze

Silicon Bronze

- C65500
- C65100
- C65600

Phosphor Bronze

- C51000
- C52100
- CuSn6
- CuSn8

Aluminum Bronze

- C95400
- C95500
- C63000
- CuAl10Ni5Fe4

Copper

Copper

- C11000
- T2
- C10100
- C10200
- C12200
- T1
- TU1
- TU2

Titanium and Titanium Alloys

Commercially Pure Titanium

- Grade 2
- Grade 1
- Grade 3
- Grade 4
- TA1
- TA2
- TA3

Alpha-Beta Titanium Alloys

- Grade 5
- Ti-6Al-4V
- TC4
- UNS R56400

Low-Interstitial Grade

- Grade 23
- Ti-6Al-4V ELI
- UNS R56407

Other Titanium Fastener Alloys

- Ti-6Al-6V-2Sn
- Ti-6Al-2Sn-4Zr-2Mo
- Beta-C titanium
- Ti-10V-2Fe-3Al

Nickel and Nickel Alloys

Commercially Pure Nickel

- Nickel 200
- UNS N02200
- Nickel 201
- UNS N02201

Inconel Alloys

- Inconel 625 UNS N06625
- Inconel 718 UNS N07718
- Inconel 600 UNS N06600
- Inconel 601 UNS N06601
- Inconel 686 UNS N06686
- Inconel X-750 UNS N07750

Monel Alloys

- Monel 400 UNS N04400
- Monel K-500 UNS N05500

Hastelloy Alloys

- Hastelloy C-276 UNS N10276
- Hastelloy C-22 UNS N06022
- Hastelloy B-2 UNS N10665
- Hastelloy B-3 UNS N10675
- Hastelloy X UNS N06002

Other Nickel Alloys

- Alloy 20 UNS N08020

- Alloy 625
- Alloy 718
- Alloy 825 UNS N08825
- Alloy 925 UNS N09925

Iron-Nickel and High-Temperature Alloys

A286

- A-286
- UNS S66286
- EN 1.4980

Invar

- Invar 36
- Alloy 36
- UNS K93600
- FeNi36

Alloy 42

- Alloy 42
- UNS K94100
- FeNi42

Tool Steel and Specialty Hardened Steel

Tool Steel and Specialty Hardened Steel

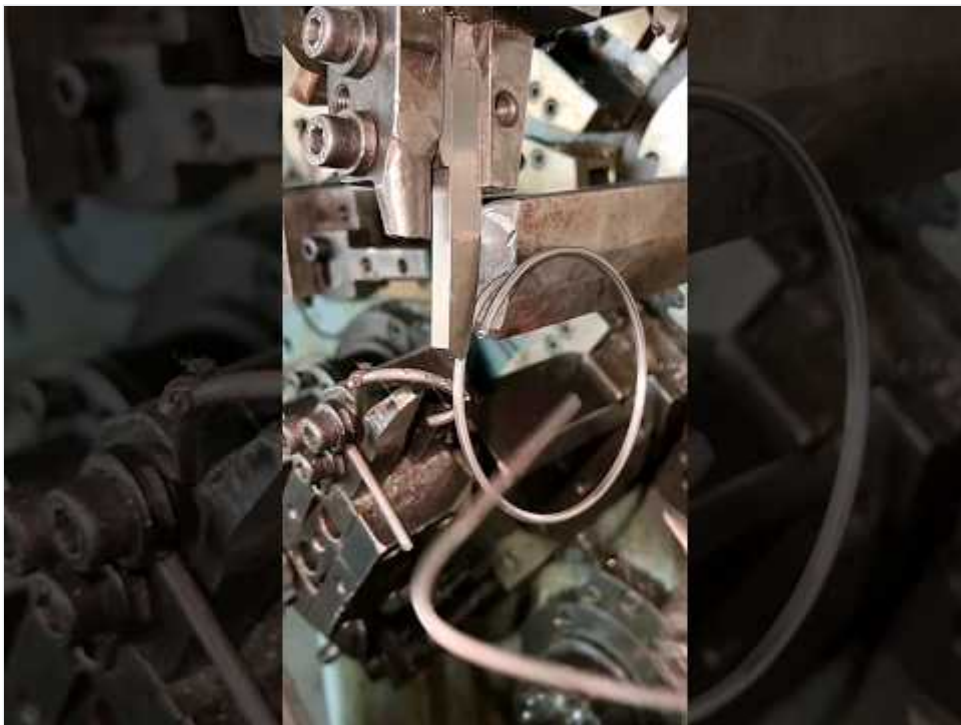
- AISI D2
- AISI H13
- SKD11
- Cr12MoV
- AISI O1
- AISI A2
- AISI S7
- SKD61
- 9CrSi

Structural and Construction Steel

Structural and Construction Steel

- ASTM A36
- Q235B
- Q355B
- S355JR
- Q235C
- Q355C
- S235JR
- S275JR
- S355J2

Video: DIN 472 Retaining Rings (Circlips) Specification



► Watch video: <https://www.youtube.com/watch?v=LjOPyJ0J-xA>

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.



1.

01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



2.

02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.

3.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.

4.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

Can I substitute DIN 472 for the corresponding DIN standard on a drawing?

On modern drawings the ISO standard is the master reference; the older DIN equivalent is a cross-reference. For most dimensional purposes the parts are interchangeable, but check tolerance grades and the head height — these are the most common points of divergence.

Which edition of DIN 472 does this table follow?

The table reproduces the dimensions we supply retaining rings (circlips) to. We do not publish an edition year against it, so where the edition is contractually significant, cite the edition you require on the enquiry and we will confirm it against the table before quoting.

What does DIN 472 specify for Retaining Rings (Circlips)?

DIN 472 specifies the dimensions and tolerances of retaining rings (circlips). Material and property class are governed by separate standards in the same family.

Does DIN 472 specify the mechanical strength?

No. DIN 472 controls the dimensional requirements for retaining rings (circlips). Mechanical performance is set by the standards specific to this part family — ISO 898-1 and ISO 898-2 apply to bolts, screws and nuts and do not cover this product.

How do I request a quotation?

Use the technical drawing on this page to pick the exact configuration, then submit it with the quote form. We respond within one business day.

Related Pages

[View the full Retaining Rings \(Circlips\) page](#)

More Retaining Rings (Circlips) Guides

- [DIN 471 Retaining Rings \(Circlips\)](#)