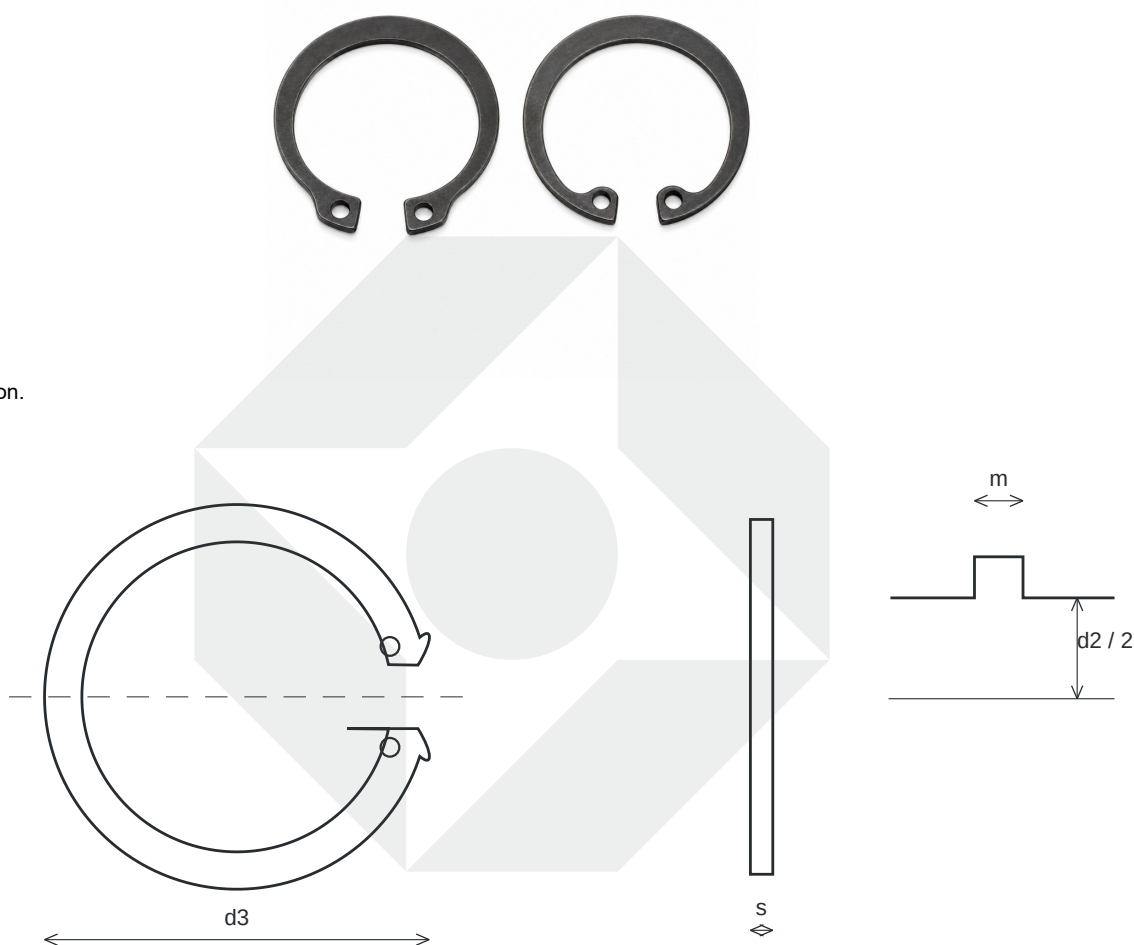


Bore retaining rings DIN 472

Installed along the component axis. First distinguish external shaft rings from internal bore rings, then check thickness, groove diameter and available axial space. Reinforced versions have a distinct dimensional configuration.

Family illustration.



Dimension-reference diagram, not to scale. The illustrated geometry is indicative. The variant production drawing is confirmed with the quotation.

Reference technical range. Material, finish and supply are confirmed against the enquiry. Dueemme article codes are pending mapping. No manufacturer load rating or performance is automatically attributed to the supply.

Technical variants

A dash means an undocumented value, not zero.

Size / reference mm	Thickness / wire mm	Material	Finish
8.0	0.8	Steel	Phosphated or blackened, oiled
9.0	0.8	Steel	Phosphated or blackened, oiled
10.0	1.0	Steel	Phosphated or blackened, oiled
11.0	1.0	Steel	Phosphated or blackened, oiled
12.0	1.0	Steel	Phosphated or blackened, oiled
13.0	1.0	Steel	Phosphated or blackened, oiled
14.0	1.0	Steel	Phosphated or blackened, oiled
15.0	1.0	Steel	Phosphated or blackened, oiled
16.0	1.0	Steel	Phosphated or blackened, oiled
17.0	1.0	Steel	Phosphated or blackened, oiled
18.0	1.0	Steel	Phosphated or blackened, oiled
19.0	1.0	Steel	Phosphated or blackened, oiled
20.0	1.0	Steel	Phosphated or blackened, oiled
21.0	1.0	Steel	Phosphated or blackened, oiled
22.0	1.0	Steel	Phosphated or blackened, oiled
23.0	1.2	Steel	Phosphated or blackened, oiled
24.0	1.2	Steel	Phosphated or blackened, oiled
25.0	1.2	Steel	Phosphated or blackened, oiled
26.0	1.2	Steel	Phosphated or blackened, oiled
27.0	1.2	Steel	Phosphated or blackened, oiled
28.0	1.2	Steel	Phosphated or blackened, oiled
29.0	1.2	Steel	Phosphated or blackened, oiled
30.0	1.2	Steel	Phosphated or blackened, oiled
31.0	1.2	Steel	Phosphated or blackened, oiled
32.0	1.2	Steel	Phosphated or blackened, oiled
33.0	1.2	Steel	Phosphated or blackened, oiled
34.0	1.5	Steel	Phosphated or blackened, oiled
35.0	1.5	Steel	Phosphated or blackened, oiled
36.0	1.5	Steel	Phosphated or blackened, oiled
37.0	1.5	Steel	Phosphated or blackened, oiled
38.0	1.5	Steel	Phosphated or blackened, oiled
39.0	1.5	Steel	Phosphated or blackened, oiled

Size / reference mm	Thickness / wire mm	Material	Finish
40.0	1.75	Steel	Phosphated or blackened, oiled
41.0	1.75	Steel	Phosphated or blackened, oiled
42.0	1.75	Steel	Phosphated or blackened, oiled
43.0	1.75	Steel	Phosphated or blackened, oiled
44.0	1.75	Steel	Phosphated or blackened, oiled
45.0	1.75	Steel	Phosphated or blackened, oiled
46.0	1.75	Steel	Phosphated or blackened, oiled
47.0	1.75	Steel	Phosphated or blackened, oiled
48.0	1.75	Steel	Phosphated or blackened, oiled
50.0	2.0	Steel	Phosphated or blackened, oiled
51.0	2.0	Steel	Phosphated or blackened, oiled
52.0	2.0	Steel	Phosphated or blackened, oiled
53.0	2.0	Steel	Phosphated or blackened, oiled
54.0	2.0	Steel	Phosphated or blackened, oiled
55.0	2.0	Steel	Phosphated or blackened, oiled
56.0	2.0	Steel	Phosphated or blackened, oiled
57.0	2.0	Steel	Phosphated or blackened, oiled
58.0	2.0	Steel	Phosphated or blackened, oiled
60.0	2.0	Steel	Phosphated or blackened, oiled
62.0	2.0	Steel	Phosphated or blackened, oiled
63.0	2.0	Steel	Phosphated or blackened, oiled
64.0	2.0	Steel	Phosphated or blackened, oiled
65.0	2.5	Steel	Phosphated or blackened, oiled
67.0	2.5	Steel	Phosphated or blackened, oiled
68.0	2.5	Steel	Phosphated or blackened, oiled
70.0	2.5	Steel	Phosphated or blackened, oiled
72.0	2.5	Steel	Phosphated or blackened, oiled
75.0	2.5	Steel	Phosphated or blackened, oiled
78.0	2.5	Steel	Phosphated or blackened, oiled
77.0	2.5	Steel	Phosphated or blackened, oiled
80.0	2.5	Steel	Phosphated or blackened, oiled
82.0	2.5	Steel	Phosphated or blackened, oiled
85.0	3.0	Steel	Phosphated or blackened, oiled
88.0	3.0	Steel	Phosphated or blackened, oiled

Size / reference mm	Thickness / wire mm	Material	Finish
87.0	3.0	Steel	Phosphated or blackened, oiled
90.0	3.0	Steel	Phosphated or blackened, oiled
92.0	3.0	Steel	Phosphated or blackened, oiled
95.0	3.0	Steel	Phosphated or blackened, oiled
98.0	3.0	Steel	Phosphated or blackened, oiled
97.0	3.0	Steel	Phosphated or blackened, oiled
100.0	3.0	Steel	Phosphated or blackened, oiled
102.0	4.0	Steel	Phosphated or blackened, oiled
105.0	4.0	Steel	Phosphated or blackened, oiled
108.0	4.0	Steel	Phosphated or blackened, oiled
107.0	4.0	Steel	Phosphated or blackened, oiled
110.0	4.0	Steel	Phosphated or blackened, oiled
112.0	4.0	Steel	Phosphated or blackened, oiled
115.0	4.0	Steel	Phosphated or blackened, oiled
118.0	4.0	Steel	Phosphated or blackened, oiled
117.0	4.0	Steel	Phosphated or blackened, oiled
120.0	4.0	Steel	Phosphated or blackened, oiled
122.0	4.0	Steel	Phosphated or blackened, oiled
125.0	4.0	Steel	Phosphated or blackened, oiled
128.0	4.0	Steel	Phosphated or blackened, oiled
127.0	4.0	Steel	Phosphated or blackened, oiled
130.0	4.0	Steel	Phosphated or blackened, oiled
135.0	4.0	Steel	Phosphated or blackened, oiled
138.0	4.0	Steel	Phosphated or blackened, oiled
137.0	4.0	Steel	Phosphated or blackened, oiled
140.0	4.0	Steel	Phosphated or blackened, oiled
142.0	4.0	Steel	Phosphated or blackened, oiled
145.0	4.0	Steel	Phosphated or blackened, oiled
148.0	4.0	Steel	Phosphated or blackened, oiled
147.0	4.0	Steel	Phosphated or blackened, oiled
150.0	4.0	Steel	Phosphated or blackened, oiled
152.0	4.0	Steel	Phosphated or blackened, oiled
155.0	4.0	Steel	Phosphated or blackened, oiled
158.0	4.0	Steel	Phosphated or blackened, oiled

Size / reference mm	Thickness / wire mm	Material	Finish
157.0	4.0	Steel	Phosphated or blackened, oiled
160.0	4.0	Steel	Phosphated or blackened, oiled
162.0	4.0	Steel	Phosphated or blackened, oiled
165.0	4.0	Steel	Phosphated or blackened, oiled
168.0	4.0	Steel	Phosphated or blackened, oiled
167.0	4.0	Steel	Phosphated or blackened, oiled
170.0	4.0	Steel	Phosphated or blackened, oiled
172.0	4.0	Steel	Phosphated or blackened, oiled
175.0	4.0	Steel	Phosphated or blackened, oiled
178.0	4.0	Steel	Phosphated or blackened, oiled
177.0	4.0	Steel	Phosphated or blackened, oiled
180.0	4.0	Steel	Phosphated or blackened, oiled
185.0	4.0	Steel	Phosphated or blackened, oiled
188.0	4.0	Steel	Phosphated or blackened, oiled
187.0	4.0	Steel	Phosphated or blackened, oiled
190.0	4.0	Steel	Phosphated or blackened, oiled
195.0	4.0	Steel	Phosphated or blackened, oiled
192.0	4.0	Steel	Phosphated or blackened, oiled
198.0	4.0	Steel	Phosphated or blackened, oiled
197.0	4.0	Steel	Phosphated or blackened, oiled
200.0	4.0	Steel	Phosphated or blackened, oiled
202.0	5.0	Steel	Phosphated or blackened, oiled
205.0	5.0	Steel	Phosphated or blackened, oiled
207.0	5.0	Steel	Phosphated or blackened, oiled
210.0	5.0	Steel	Phosphated or blackened, oiled
208.0	5.0	Steel	Phosphated or blackened, oiled
212.0	5.0	Steel	Phosphated or blackened, oiled
215.0	5.0	Steel	Phosphated or blackened, oiled
217.0	5.0	Steel	Phosphated or blackened, oiled
220.0	5.0	Steel	Phosphated or blackened, oiled
218.0	5.0	Steel	Phosphated or blackened, oiled
222.0	5.0	Steel	Phosphated or blackened, oiled
225.0	5.0	Steel	Phosphated or blackened, oiled
227.0	5.0	Steel	Phosphated or blackened, oiled

Size / reference mm	Thickness / wire mm	Material	Finish
230.0	5.0	Steel	Phosphated or blackened, oiled
228.0	5.0	Steel	Phosphated or blackened, oiled
232.0	5.0	Steel	Phosphated or blackened, oiled
235.0	5.0	Steel	Phosphated or blackened, oiled
237.0	5.0	Steel	Phosphated or blackened, oiled
240.0	5.0	Steel	Phosphated or blackened, oiled
238.0	5.0	Steel	Phosphated or blackened, oiled
242.0	5.0	Steel	Phosphated or blackened, oiled
245.0	5.0	Steel	Phosphated or blackened, oiled
247.0	5.0	Steel	Phosphated or blackened, oiled
250.0	5.0	Steel	Phosphated or blackened, oiled
248.0	5.0	Steel	Phosphated or blackened, oiled
252.0	5.0	Steel	Phosphated or blackened, oiled
255.0	5.0	Steel	Phosphated or blackened, oiled
257.0	5.0	Steel	Phosphated or blackened, oiled
260.0	5.0	Steel	Phosphated or blackened, oiled
258.0	5.0	Steel	Phosphated or blackened, oiled
262.0	5.0	Steel	Phosphated or blackened, oiled
265.0	5.0	Steel	Phosphated or blackened, oiled
267.0	5.0	Steel	Phosphated or blackened, oiled
270.0	5.0	Steel	Phosphated or blackened, oiled
268.0	5.0	Steel	Phosphated or blackened, oiled
272.0	5.0	Steel	Phosphated or blackened, oiled
275.0	5.0	Steel	Phosphated or blackened, oiled
277.0	5.0	Steel	Phosphated or blackened, oiled
280.0	5.0	Steel	Phosphated or blackened, oiled
278.0	5.0	Steel	Phosphated or blackened, oiled
282.0	5.0	Steel	Phosphated or blackened, oiled
285.0	5.0	Steel	Phosphated or blackened, oiled
287.0	5.0	Steel	Phosphated or blackened, oiled
290.0	5.0	Steel	Phosphated or blackened, oiled
288.0	5.0	Steel	Phosphated or blackened, oiled
292.0	5.0	Steel	Phosphated or blackened, oiled
295.0	5.0	Steel	Phosphated or blackened, oiled

Size / reference mm	Thickness / wire mm	Material	Finish
297.0	5.0	Steel	Phosphated or blackened, oiled
300.0	5.0	Steel	Phosphated or blackened, oiled
298.0	5.0	Steel	Phosphated or blackened, oiled
305.0	6.0	Steel	Phosphated or blackened, oiled
310.0	6.0	Steel	Phosphated or blackened, oiled
315.0	6.0	Steel	Phosphated or blackened, oiled
320.0	6.0	Steel	Phosphated or blackened, oiled
325.0	6.0	Steel	Phosphated or blackened, oiled
330.0	6.0	Steel	Phosphated or blackened, oiled
335.0	6.0	Steel	Phosphated or blackened, oiled
340.0	6.0	Steel	Phosphated or blackened, oiled
345.0	6.0	Steel	Phosphated or blackened, oiled
350.0	6.0	Steel	Phosphated or blackened, oiled
355.0	6.0	Steel	Phosphated or blackened, oiled
360.0	6.0	Steel	Phosphated or blackened, oiled
365.0	6.0	Steel	Phosphated or blackened, oiled
370.0	6.0	Steel	Phosphated or blackened, oiled
375.0	6.0	Steel	Phosphated or blackened, oiled
380.0	6.0	Steel	Phosphated or blackened, oiled
385.0	6.0	Steel	Phosphated or blackened, oiled
390.0	6.0	Steel	Phosphated or blackened, oiled
395.0	6.0	Steel	Phosphated or blackened, oiled
400.0	6.0	Steel	Phosphated or blackened, oiled
410.0	7.0	Steel	Phosphated or blackened, oiled
420.0	7.0	Steel	Phosphated or blackened, oiled
430.0	7.0	Steel	Phosphated or blackened, oiled
440.0	7.0	Steel	Phosphated or blackened, oiled
450.0	7.0	Steel	Phosphated or blackened, oiled
460.0	7.0	Steel	Phosphated or blackened, oiled
470.0	7.0	Steel	Phosphated or blackened, oiled
480.0	7.0	Steel	Phosphated or blackened, oiled
490.0	7.0	Steel	Phosphated or blackened, oiled
500.0	7.0	Steel	Phosphated or blackened, oiled
510.0	8.0	Steel	Phosphated or blackened, oiled

Size / reference mm	Thickness / wire mm	Material	Finish
520.0	8.0	Steel	Phosphated or blackened, oiled
530.0	8.0	Steel	Phosphated or blackened, oiled
540.0	8.0	Steel	Phosphated or blackened, oiled
550.0	8.0	Steel	Phosphated or blackened, oiled
560.0	8.0	Steel	Phosphated or blackened, oiled
570.0	8.0	Steel	Phosphated or blackened, oiled
580.0	8.0	Steel	Phosphated or blackened, oiled
590.0	8.0	Steel	Phosphated or blackened, oiled
600.0	8.0	Steel	Phosphated or blackened, oiled
620.0	9.0	Steel	Phosphated or blackened, oiled
650.0	9.0	Steel	Phosphated or blackened, oiled
700.0	9.0	Steel	Phosphated or blackened, oiled
750.0	9.0	Steel	Phosphated or blackened, oiled
800.0	9.0	Steel	Phosphated or blackened, oiled
850.0	9.0	Steel	Phosphated or blackened, oiled
900.0	9.0	Steel	Phosphated or blackened, oiled
950.0	9.0	Steel	Phosphated or blackened, oiled
1000.0	9.0	Steel	Phosphated or blackened, oiled
8.0	0.8	Bronze	Specify in enquiry
9.0	0.8	Bronze	Specify in enquiry
10.0	1.0	Bronze	Specify in enquiry
11.0	1.0	Bronze	Specify in enquiry
12.0	1.0	Bronze	Specify in enquiry
13.0	1.0	Bronze	Specify in enquiry
14.0	1.0	Bronze	Specify in enquiry
15.0	1.0	Bronze	Specify in enquiry
16.0	1.0	Bronze	Specify in enquiry
17.0	1.0	Bronze	Specify in enquiry
18.0	1.0	Bronze	Specify in enquiry
19.0	1.0	Bronze	Specify in enquiry
20.0	1.0	Bronze	Specify in enquiry
21.0	1.0	Bronze	Specify in enquiry
22.0	1.0	Bronze	Specify in enquiry
23.0	1.2	Bronze	Specify in enquiry

Size / reference mm	Thickness / wire mm	Material	Finish
24.0	1.2	Bronze	Specify in enquiry
25.0	1.2	Bronze	Specify in enquiry
26.0	1.2	Bronze	Specify in enquiry
29.0	1.2	Bronze	Specify in enquiry
30.0	1.2	Bronze	Specify in enquiry
32.0	1.2	Bronze	Specify in enquiry
35.0	1.5	Bronze	Specify in enquiry
38.0	1.5	Bronze	Specify in enquiry
40.0	1.75	Bronze	Specify in enquiry
47.0	1.75	Bronze	Specify in enquiry
60.0	2.0	Bronze	Specify in enquiry
72.0	2.5	Bronze	Specify in enquiry
75.0	2.5	Bronze	Specify in enquiry
80.0	2.5	Bronze	Specify in enquiry
90.0	3.0	Bronze	Specify in enquiry
8.0	0.8	Stainless steel	Specify in enquiry
9.0	0.8	Stainless steel	Specify in enquiry
10.0	1.0	Stainless steel	Specify in enquiry
11.0	1.0	Stainless steel	Specify in enquiry
12.0	1.0	Stainless steel	Specify in enquiry
13.0	1.0	Stainless steel	Specify in enquiry
14.0	1.0	Stainless steel	Specify in enquiry
15.0	1.0	Stainless steel	Specify in enquiry
16.0	1.0	Stainless steel	Specify in enquiry
17.0	1.0	Stainless steel	Specify in enquiry
18.0	1.0	Stainless steel	Specify in enquiry
19.0	1.0	Stainless steel	Specify in enquiry
20.0	1.0	Stainless steel	Specify in enquiry
21.0	1.0	Stainless steel	Specify in enquiry
22.0	1.0	Stainless steel	Specify in enquiry
23.0	1.2	Stainless steel	Specify in enquiry
24.0	1.2	Stainless steel	Specify in enquiry
25.0	1.2	Stainless steel	Specify in enquiry
26.0	1.2	Stainless steel	Specify in enquiry

Size / reference mm	Thickness / wire mm	Material	Finish
27.0	1.2	Stainless steel	Specify in enquiry
28.0	1.2	Stainless steel	Specify in enquiry
29.0	1.2	Stainless steel	Specify in enquiry
30.0	1.2	Stainless steel	Specify in enquiry
31.0	1.2	Stainless steel	Specify in enquiry
32.0	1.2	Stainless steel	Specify in enquiry
33.0	1.2	Stainless steel	Specify in enquiry
34.0	1.5	Stainless steel	Specify in enquiry
35.0	1.5	Stainless steel	Specify in enquiry
36.0	1.5	Stainless steel	Specify in enquiry
37.0	1.5	Stainless steel	Specify in enquiry
38.0	1.5	Stainless steel	Specify in enquiry
39.0	1.5	Stainless steel	Specify in enquiry
40.0	1.75	Stainless steel	Specify in enquiry
41.0	1.75	Stainless steel	Specify in enquiry
42.0	1.75	Stainless steel	Specify in enquiry
44.0	1.75	Stainless steel	Specify in enquiry
45.0	1.75	Stainless steel	Specify in enquiry
47.0	1.75	Stainless steel	Specify in enquiry
48.0	1.75	Stainless steel	Specify in enquiry
50.0	2.0	Stainless steel	Specify in enquiry
52.0	2.0	Stainless steel	Specify in enquiry
55.0	2.0	Stainless steel	Specify in enquiry
56.0	2.0	Stainless steel	Specify in enquiry
58.0	2.0	Stainless steel	Specify in enquiry
60.0	2.0	Stainless steel	Specify in enquiry
62.0	2.0	Stainless steel	Specify in enquiry
63.0	2.0	Stainless steel	Specify in enquiry
65.0	2.5	Stainless steel	Specify in enquiry
68.0	2.5	Stainless steel	Specify in enquiry
70.0	2.5	Stainless steel	Specify in enquiry
72.0	2.5	Stainless steel	Specify in enquiry
75.0	2.5	Stainless steel	Specify in enquiry
80.0	2.5	Stainless steel	Specify in enquiry

Size / reference mm	Thickness / wire mm	Material	Finish
82.0	2.5	Stainless steel	Specify in enquiry
85.0	3.0	Stainless steel	Specify in enquiry
90.0	3.0	Stainless steel	Specify in enquiry
92.0	3.0	Stainless steel	Specify in enquiry
95.0	3.0	Stainless steel	Specify in enquiry
100.0	3.0	Stainless steel	Specify in enquiry
105.0	-	Stainless steel	Specify in enquiry
110.0	-	Stainless steel	Specify in enquiry
115.0	-	Stainless steel	Specify in enquiry
120.0	-	Stainless steel	Specify in enquiry
125.0	-	Stainless steel	Specify in enquiry
130.0	-	Stainless steel	Specify in enquiry
140.0	-	Stainless steel	Specify in enquiry
145.0	-	Stainless steel	Specify in enquiry
160.0	-	Stainless steel	Specify in enquiry
170.0	-	Stainless steel	Specify in enquiry
180.0	-	Stainless steel	Specify in enquiry
8.0	0.8	Steel	Zinc plated
9.0	0.8	Steel	Zinc plated
10.0	1.0	Steel	Zinc plated
11.0	1.0	Steel	Zinc plated
12.0	1.0	Steel	Zinc plated
13.0	1.0	Steel	Zinc plated
14.0	1.0	Steel	Zinc plated
15.0	1.0	Steel	Zinc plated
16.0	1.0	Steel	Zinc plated
17.0	1.0	Steel	Zinc plated
18.0	1.0	Steel	Zinc plated
19.0	1.0	Steel	Zinc plated
20.0	1.0	Steel	Zinc plated
21.0	1.0	Steel	Zinc plated
22.0	1.0	Steel	Zinc plated
23.0	1.2	Steel	Zinc plated
24.0	1.2	Steel	Zinc plated

Size / reference mm	Thickness / wire mm	Material	Finish
25.0	1.2	Steel	Zinc plated
26.0	1.2	Steel	Zinc plated
27.0	1.2	Steel	Zinc plated
28.0	1.2	Steel	Zinc plated
29.0	1.2	Steel	Zinc plated
30.0	1.2	Steel	Zinc plated
31.0	1.2	Steel	Zinc plated
32.0	1.2	Steel	Zinc plated
33.0	1.2	Steel	Zinc plated
34.0	1.5	Steel	Zinc plated
35.0	1.5	Steel	Zinc plated
36.0	1.5	Steel	Zinc plated
37.0	1.5	Steel	Zinc plated
38.0	1.5	Steel	Zinc plated
39.0	1.5	Steel	Zinc plated
40.0	1.75	Steel	Zinc plated
47.0	1.75	Steel	Zinc plated
52.0	2.0	Steel	Zinc plated
62.0	2.0	Steel	Zinc plated

Ring dimensions · mm

A dash means an undocumented value, not zero.

Reference mm	s	d3
10.0	1,000	10,800
100.0	3,000	105,500
1000.0	9,000	1050,000
102.0	4,000	108,000
105.0	-	-
105.0	4,000	112,000
107.0	4,000	115,000
108.0	4,000	115,000
11.0	1,000	11,800
110.0	-	-
110.0	4,000	117,000

Reference mm	s	d3
112.0	4,000	119,000
115.0	-	-
115.0	4,000	122,000
117.0	4,000	125,000
118.0	4,000	125,000
12.0	1,000	13,000
120.0	-	-
120.0	4,000	127,000
122.0	4,000	129,000
125.0	-	-
125.0	4,000	132,000
127.0	4,000	135,000
128.0	4,000	135,000
13.0	1,000	14,100
130.0	-	-
130.0	4,000	137,000
135.0	4,000	142,000
137.0	4,000	145,000
138.0	4,000	145,000
14.0	1,000	15,100
140.0	-	-
140.0	4,000	147,000
142.0	4,000	149,000
145.0	-	-
145.0	4,000	152,000
147.0	4,000	155,000
148.0	4,000	155,000
15.0	1,000	16,200
150.0	4,000	158,000
152.0	4,000	161,000
155.0	4,000	164,000
157.0	4,000	167,000
158.0	4,000	167,000
16.0	1,000	17,300

Reference mm	s	d3
160.0	-	-
160.0	4,000	169,000
162.0	4,000	171,500
165.0	4,000	174,500
167.0	4,000	177,500
168.0	4,000	177,500
17.0	1,000	18,300
170.0	-	-
170.0	4,000	179,500
172.0	4,000	181,500
175.0	4,000	184,500
177.0	4,000	187,500
178.0	4,000	187,500
18.0	1,000	19,500
180.0	-	-
180.0	4,000	189,500
185.0	4,000	194,500
187.0	4,000	197,500
188.0	4,000	197,500
19.0	1,000	20,500
190.0	4,000	199,500
192.0	4,000	201,500
195.0	4,000	204,500
197.0	4,000	207,500
198.0	4,000	207,500
20.0	1,000	21,500
200.0	4,000	209,500
202.0	5,000	214,000
205.0	5,000	217,000
207.0	5,000	217,000
208.0	5,000	222,000
21.0	1,000	22,500
210.0	5,000	222,000
212.0	5,000	222,000

Reference mm	s	d3
215.0	5,000	227,000
217.0	5,000	227,000
218.0	5,000	232,000
22.0	1,000	23,500
220.0	5,000	232,000
222.0	5,000	232,000
225.0	5,000	237,000
227.0	5,000	237,000
228.0	5,000	242,000
23.0	1,200	24,600
230.0	5,000	242,000
232.0	5,000	242,000
235.0	5,000	247,000
237.0	5,000	247,000
238.0	5,000	252,000
24.0	1,200	25,900
240.0	5,000	252,000
242.0	5,000	252,000
245.0	5,000	257,000
247.0	5,000	257,000
248.0	5,000	262,000
25.0	1,200	26,900
250.0	5,000	262,000
252.0	5,000	262,000
255.0	5,000	270,000
257.0	5,000	270,000
258.0	5,000	275,000
26.0	1,200	27,900
260.0	5,000	275,000
262.0	5,000	270,000
265.0	5,000	280,000
267.0	5,000	280,000
268.0	5,000	285,000
27.0	1,200	29,100

Reference mm	s	d3
270.0	5,000	285,000
272.0	5,000	285,000
275.0	5,000	290,000
277.0	5,000	290,000
278.0	5,000	295,000
28.0	1,200	30,100
280.0	5,000	295,000
282.0	5,000	295,000
285.0	5,000	300,000
287.0	5,000	300,000
288.0	5,000	305,000
29.0	1,200	31,100
290.0	5,000	305,000
292.0	5,000	305,000
295.0	5,000	310,000
297.0	5,000	310,000
298.0	5,000	315,000
30.0	1,200	32,100
300.0	5,000	315,000
305.0	6,000	322,000
31.0	1,200	33,400
310.0	6,000	327,000
315.0	6,000	332,000
32.0	1,200	34,400
320.0	6,000	337,000
325.0	6,000	342,000
33.0	1,200	35,500
330.0	6,000	347,000
335.0	6,000	352,000
34.0	1,500	36,500
340.0	6,000	357,000
345.0	6,000	362,000
35.0	1,500	37,800
350.0	6,000	367,000

Reference mm	s	d3
355.0	6,000	372,000
36.0	1,500	38,800
360.0	6,000	377,000
365.0	6,000	382,000
37.0	1,500	39,800
370.0	6,000	387,000
375.0	6,000	392,000
38.0	1,500	40,800
380.0	6,000	397,000
385.0	6,000	402,000
39.0	1,500	42,000
390.0	6,000	407,000
395.0	6,000	412,000
40.0	1,750	43,500
400.0	6,000	417,000
41.0	1,750	44,500
410.0	7,000	430,000
42.0	1,750	45,500
420.0	7,000	440,000
43.0	1,750	46,500
430.0	7,000	450,000
44.0	1,750	47,500
440.0	7,000	460,000
45.0	1,750	48,500
450.0	7,000	470,000
46.0	1,750	49,500
460.0	7,000	480,000
47.0	1,750	50,500
470.0	7,000	490,000
48.0	1,750	51,500
480.0	7,000	500,000
490.0	7,000	510,000
50.0	2,000	54,200
500.0	7,000	520,000

Reference mm	s	d3
51.0	2,000	55,200
510.0	8,000	535,000
52.0	2,000	56,200
520.0	8,000	545,000
53.0	2,000	57,200
530.0	8,000	555,000
54.0	2,000	58,200
540.0	8,000	565,000
55.0	2,000	59,200
550.0	8,000	575,000
56.0	2,000	60,200
560.0	8,000	585,000
57.0	2,000	61,200
570.0	8,000	595,000
58.0	2,000	62,200
580.0	8,000	605,000
590.0	8,000	615,000
60.0	2,000	64,200
600.0	8,000	625,000
62.0	2,000	66,200
620.0	9,000	645,000
63.0	2,000	67,200
64.0	2,000	68,200
65.0	2,500	69,200
650.0	9,000	680,000
67.0	2,500	71,500
68.0	2,500	72,500
70.0	2,500	74,500
700.0	9,000	730,000
72.0	2,500	76,500
75.0	2,500	79,500
750.0	9,000	785,000
77.0	2,500	82,500
78.0	2,500	82,500

Reference mm	s	d3
8.0	0,800	8,700
80.0	2,500	85,500
800.0	9,000	835,000
82.0	2,500	87,500
85.0	3,000	90,500
850.0	9,000	890,000
87.0	3,000	93,500
88.0	3,000	93,500
9.0	0,800	9,800
90.0	3,000	95,500
900.0	9,000	940,000
92.0	3,000	97,500
95.0	3,000	100,500
950.0	9,000	1000,000
97.0	3,000	103,500
98.0	3,000	103,500

Groove dimensions · mm

A dash means an undocumented value, not zero.

Reference	d2	Tolerance + / -	m	m tol.	n min
8.0	8,4	0,09 / 0	0,90	H13	0,6
9.0	9,4	0,09 / 0	0,90	H13	0,6
10.0	10,4	0,11 / 0	1,10	H13	0,6
11.0	11,4	0,11 / 0	1,10	H13	0,6
12.0	12,5	0,11 / 0	1,10	H13	0,8
13.0	13,6	0,11 / 0	1,10	H13	0,9
14.0	14,6	0,11 / 0	1,10	H13	0,9
15.0	15,7	0,11 / 0	1,10	H13	1,1
16.0	16,8	0,11 / 0	1,10	H13	1,2
17.0	17,8	0,11 / 0	1,10	H13	1,2
18.0	19,0	0,13 / 0	1,10	H13	1,5
19.0	20,0	0,13 / 0	1,10	H13	1,5
20.0	21,0	0,13 / 0	1,10	H13	1,5
21.0	22,0	0,13 / 0	1,10	H13	1,5

Reference	d2	Tolerance + / -	m	m tol.	n min
22.0	23,0	0,13 / 0	1,10	H13	1,5
23.0	24,1	0,21 / 0	1,30	H13	1,8
24.0	25,2	0,21 / 0	1,30	H13	1,8
25.0	26,2	0,21 / 0	1,30	H13	1,8
26.0	27,2	0,21 / 0	1,30	H13	1,8
27.0	28,4	0,21 / 0	1,30	H13	2,1
28.0	29,4	0,21 / 0	1,30	H13	2,1
29.0	30,4	0,21 / 0	1,30	H13	2,1
30.0	31,4	0,25 / 0	1,30	H13	2,1
31.0	32,7	0,25 / 0	1,30	H13	2,6
32.0	33,7	0,25 / 0	1,30	H13	2,6
33.0	34,7	0,25 / 0	1,30	H13	2,6
34.0	35,7	0,25 / 0	1,60	H13	2,6
35.0	37,0	0,25 / 0	1,60	H13	3,0
36.0	38,0	0,25 / 0	1,60	H13	3,0
37.0	39,0	0,25 / 0	1,60	H13	3,0
38.0	40,0	0,25 / 0	1,60	H13	3,0
39.0	41,0	0,25 / 0	1,60	H13	3,5
40.0	42,5	0,25 / 0	1,85	H13	3,8
41.0	43,5	0,25 / 0	1,85	H13	3,8
42.0	44,5	0,25 / 0	1,85	H13	3,8
43.0	45,5	0,25 / 0	1,85	H13	3,8
44.0	46,5	0,25 / 0	1,85	H13	3,8
45.0	47,5	0,25 / 0	1,85	H13	3,8
46.0	48,5	0,25 / 0	1,85	H13	3,8
47.0	49,5	0,25 / 0	1,85	H13	3,8
48.0	50,5	0,30 / 0	1,85	H13	3,8
50.0	53,0	0,30 / 0	2,15	H13	4,5
51.0	54,0	0,30 / 0	2,15	H13	4,5
52.0	55,0	0,30 / 0	2,15	H13	4,5
53.0	56,0	0,30 / 0	2,15	H13	4,5
54.0	57,0	0,30 / 0	2,15	H13	4,5
55.0	58,0	0,30 / 0	2,15	H13	4,5
56.0	59,0	0,30 / 0	2,15	H13	4,5

Reference	d2	Tolerance + / -	m	m tol.	n min
57.0	60,0	0,30 / 0	2,15	H13	4,5
58.0	61,0	0,30 / 0	2,15	H13	4,5
60.0	63,0	0,30 / 0	2,15	H13	4,5
62.0	65,0	0,30 / 0	2,15	H13	4,5
63.0	66,0	0,30 / 0	2,15	H13	4,5
64.0	67,0	0,30 / 0	2,15	H13	4,5
65.0	68,0	0,30 / 0	2,65	H13	4,5
67.0	70,0	0,30 / 0	2,65	H13	4,5
68.0	71,0	0,30 / 0	2,65	H13	4,5
70.0	73,0	0,30 / 0	2,65	H13	4,5
72.0	75,0	0,30 / 0	2,65	H13	4,5
75.0	78,0	0,30 / 0	2,65	H13	4,5
78.0	81,0	0,35 / 0	2,65	H13	4,5
77.0	80,0	0,35 / 0	2,65	H13	4,5
80.0	83,5	0,35 / 0	2,65	H13	5,3
82.0	85,5	0,35 / 0	2,65	H13	5,3
85.0	88,5	0,35 / 0	3,15	H13	5,3
88.0	91,5	0,35 / 0	3,15	H13	5,3
87.0	90,5	0,35 / 0	3,15	H13	5,3
90.0	93,5	0,35 / 0	3,15	H13	5,3
92.0	95,5	0,35 / 0	3,15	H13	5,3
95.0	98,5	0,35 / 0	3,15	H13	5,3
98.0	101,5	0,35 / 0	3,15	H13	5,3
97.0	100,5	0,35 / 0	3,15	H13	5,3
100.0	103,5	0,35 / 0	3,15	H13	5,3
102.0	106,0	0,54 / 0	4,15	H13	6,0
105.0	109,0	0,54 / 0	4,15	H13	6,0
108.0	112,0	0,54 / 0	4,15	H13	6,0
107.0	111,0	0,54 / 0	4,15	H13	6,0
110.0	114,0	0,54 / 0	4,15	H13	6,0
112.0	116,0	0,54 / 0	4,15	H13	6,0
115.0	119,0	0,54 / 0	4,15	H13	6,0
118.0	122,0	0,63 / 0	4,15	H13	6,0
117.0	121,0	0,63 / 0	4,15	H13	6,0

Reference	d2	Tolerance + / -	m	m tol.	n min
120.0	124,0	0,63 / 0	4,15	H13	6,0
122.0	126,0	0,63 / 0	4,15	H13	6,0
125.0	129,0	0,63 / 0	4,15	H13	6,0
128.0	132,0	0,63 / 0	4,15	H13	6,0
127.0	131,0	0,63 / 0	4,15	H13	6,0
130.0	134,0	0,63 / 0	4,15	H13	6,0
135.0	139,0	0,63 / 0	4,15	H13	6,0
138.0	142,0	0,63 / 0	4,15	H13	6,0
137.0	141,0	0,63 / 0	4,15	H13	6,0
140.0	144,0	0,63 / 0	4,15	H13	6,0
142.0	146,0	0,63 / 0	4,15	H13	6,0
145.0	149,0	0,63 / 0	4,15	H13	6,0
148.0	152,0	0,63 / 0	4,15	H13	7,0
147.0	151,0	0,63 / 0	4,15	H13	7,0
150.0	155,0	0,63 / 0	4,15	H13	7,5
152.0	157,0	0,63 / 0	4,15	H13	7,5
155.0	160,0	0,63 / 0	4,15	H13	7,5
158.0	163,0	0,63 / 0	4,15	H13	7,5
157.0	162,0	0,63 / 0	4,15	H13	7,5
160.0	165,0	0,63 / 0	4,15	H13	7,5
162.0	167,0	0,63 / 0	4,15	H13	7,5
165.0	170,0	0,63 / 0	4,15	H13	7,5
168.0	173,0	0,63 / 0	4,15	H13	7,5
167.0	172,0	0,63 / 0	4,15	H13	7,5
170.0	175,0	0,63 / 0	4,15	H13	7,5
172.0	177,0	0,63 / 0	4,15	H13	7,5
175.0	180,0	0,63 / 0	4,15	H13	7,5
178.0	183,0	0,72 / 0	4,15	H13	7,5
177.0	182,0	0,72 / 0	4,15	H13	7,5
180.0	185,0	0,72 / 0	4,15	H13	7,5
185.0	190,0	0,72 / 0	4,15	H13	7,5
188.0	193,000	-	-	- / -	-
187.0	192,000	-	-	- / -	-
190.0	195,0	0,72 / 0	4,15	H13	7,5

Reference	d2	Tolerance + / -	m	m tol.	n min
195.0	200,0	0,72 / 0	4,15	H13	7,5
192.0	197,0	0,72 / 0	4,15	H13	7,5
198.0	203,000	-	-	- / -	-
197.0	202,000	-	-	- / -	-
200.0	205,0	0,72 / 0	4,15	H13	7,5
202.0	208,000	-	-	- / -	-
205.0	211,0	0,72 / 0	5,15	H13	9,0
207.0	213,000	-	-	- / -	-
210.0	216,0	0,72 / 0	5,15	H13	9,0
208.0	214,000	-	-	- / -	-
212.0	218,000	-	-	- / -	-
215.0	221,0	0,72 / 0	5,15	H13	9,0
217.0	223,000	-	-	- / -	-
220.0	226,0	0,72 / 0	5,15	H13	9,0
218.0	224,000	-	-	- / -	-
222.0	228,000	-	-	- / -	-
225.0	231,0	0,72 / 0	5,15	H13	9,0
227.0	233,000	-	-	- / -	-
230.0	236,0	0,72 / 0	5,15	H13	9,0
228.0	234,000	-	-	- / -	-
232.0	238,000	-	-	- / -	-
235.0	241,0	0,72 / 0	5,15	H13	9,0
237.0	243,000	-	-	- / -	-
240.0	246,0	0,72 / 0	5,15	H13	9,0
238.0	244,000	-	-	- / -	-
242.0	248,000	-	-	- / -	-
245.0	251,0	0,81 / 0	5,15	H13	9,0
247.0	253,000	-	-	- / -	-
250.0	256,0	0,81 / 0	5,15	H13	9,0
248.0	254,000	-	-	- / -	-
252.0	260,000	-	-	- / -	-
255.0	263,0	0,81 / 0	5,15	H13	12,0
257.0	265,000	-	-	- / -	-
260.0	268,0	0,81 / 0	5,15	H13	12,0

Reference	d2	Tolerance + / -	m	m tol.	n min
258.0	266,000	-	-	- / -	-
262.0	270,000	-	-	- / -	-
265.0	273,0	0,81 / 0	5,15	H13	12,0
267.0	275,000	-	-	- / -	-
270.0	278,0	0,81 / 0	5,15	H13	12,0
268.0	276,000	-	-	- / -	-
272.0	280,000	-	-	- / -	-
275.0	283,0	0,81 / 0	5,15	H13	12,0
277.0	285,000	-	-	- / -	-
280.0	288,0	0,81 / 0	5,15	H13	12,0
278.0	286,000	-	-	- / -	-
282.0	290,000	-	-	- / -	-
285.0	293,000	-	-	- / -	-
287.0	295,000	-	-	- / -	-
290.0	298,0	0,81 / 0	5,15	H13	12,0
288.0	296,000	-	-	- / -	-
292.0	300,000	-	-	- / -	-
295.0	303,0	0,81 / 0	5,15	H13	12,0
297.0	305,000	-	-	- / -	-
300.0	308,0	0,81 / 0	5,15	H13	12,0
298.0	306,000	-	-	- / -	-
305.0	315,000	-	-	- / -	-
310.0	320,000	-	-	- / -	-
315.0	325,000	-	-	- / -	-
320.0	330,000	-	-	- / -	-
325.0	335,000	-	-	- / -	-
330.0	340,000	-	-	- / -	-
335.0	345,000	-	-	- / -	-
340.0	350,000	-	-	- / -	-
345.0	355,000	-	-	- / -	-
350.0	360,000	-	-	- / -	-
355.0	365,000	-	-	- / -	-
360.0	370,000	-	-	- / -	-
365.0	375,000	-	-	- / -	-

Reference	d2	Tolerance + / -	m	m tol.	n min
370.0	380,000	-	-	- / -	-
375.0	385,000	-	-	- / -	-
380.0	390,000	-	-	- / -	-
385.0	395,000	-	-	- / -	-
390.0	400,000	-	-	- / -	-
395.0	405,000	-	-	- / -	-
400.0	410,000	-	-	- / -	-
410.0	422,000	-	-	- / -	-
420.0	432,000	-	-	- / -	-
430.0	442,000	-	-	- / -	-
440.0	452,000	-	-	- / -	-
450.0	462,000	-	-	- / -	-
460.0	472,000	-	-	- / -	-
470.0	482,000	-	-	- / -	-
480.0	492,000	-	-	- / -	-
490.0	502,000	-	-	- / -	-
500.0	512,000	-	-	- / -	-
510.0	524,000	-	-	- / -	-
520.0	534,000	-	-	- / -	-
530.0	544,000	-	-	- / -	-
540.0	554,000	-	-	- / -	-
550.0	564,000	-	-	- / -	-
560.0	574,000	-	-	- / -	-
570.0	584,000	-	-	- / -	-
580.0	594,000	-	-	- / -	-
590.0	604,000	-	-	- / -	-
600.0	614,000	-	-	- / -	-
620.0	635,000	-	-	- / -	-
650.0	666,000	-	-	- / -	-
700.0	716,000	-	-	- / -	-
750.0	768,000	-	-	- / -	-
800.0	818,000	-	-	- / -	-
850.0	870,000	-	-	- / -	-
900.0	920,000	-	-	- / -	-

Reference	d2	Tolerance + / -	m	m tol.	n min
950.0	972,000	-	-	- / -	-
1000.0	1022,000	-	-	- / -	-
105.0	-	-	-	- / -	-
110.0	-	-	-	- / -	-
115.0	-	-	-	- / -	-
120.0	-	-	-	- / -	-
125.0	-	-	-	- / -	-
130.0	-	-	-	- / -	-
140.0	-	-	-	- / -	-
145.0	-	-	-	- / -	-
160.0	-	-	-	- / -	-
170.0	-	-	-	- / -	-
180.0	-	-	-	- / -	-

Tolerances and additional dimensions · mm

A dash means an undocumented value, not zero.

Ref.	s +	s -	d3 +	d3 -	a max	b ≈	d5 min
8.0	0	-0,05	0,36	-0,10	2,4	1,1	1,0
9.0	0	-0,05	0,36	-0,10	2,5	1,3	1,0
10.0	0	-0,06	0,36	-0,10	3,2	1,4	1,2
11.0	0	-0,06	0,36	-0,10	3,3	1,5	1,2
12.0	0	-0,06	0,36	-0,10	3,4	1,7	1,5
13.0	0	-0,06	0,36	-0,10	3,6	1,8	1,5
14.0	0	-0,06	0,36	-0,10	3,7	1,9	1,7
15.0	0	-0,06	0,36	-0,10	3,7	2,0	1,7
16.0	0	-0,06	0,36	-0,10	3,8	2,0	1,7
17.0	0	-0,06	0,42	-0,13	3,9	2,1	1,7
18.0	0	-0,06	0,42	-0,13	4,1	2,2	2,0
19.0	0	-0,06	0,42	-0,13	4,1	2,2	2,0
20.0	0	-0,06	0,42	-0,13	4,2	2,3	2,0
21.0	0	-0,06	0,42	-0,13	4,2	2,4	2,0
22.0	0	-0,06	0,42	-0,13	4,2	2,5	2,0
23.0	0	-0,06	0,42	-0,21	4,2	2,5	2,0
24.0	0	-0,06	0,42	-0,21	4,4	2,6	2,0

Ref.	s +	s -	d3 +	d3 -	a max	b ≈	d5 min
25.0	0	-0,06	0,42	-0,21	4,5	2,7	2,0
26.0	0	-0,06	0,42	-0,21	4,7	2,8	2,0
27.0	0	-0,06	0,50	-0,25	4,7	2,9	2,0
28.0	0	-0,06	0,50	-0,25	4,8	2,9	2,0
29.0	0	-0,06	0,50	-0,25	4,8	3,0	2,0
30.0	0	-0,06	0,50	-0,25	4,8	3,0	2,0
31.0	0	-0,06	0,50	-0,25	5,2	3,2	2,5
32.0	0	-0,06	0,50	-0,25	5,4	3,2	2,5
33.0	0	-0,06	0,50	-0,25	5,4	3,3	2,5
34.0	0	-0,06	0,50	-0,25	5,4	3,3	2,5
35.0	0	-0,06	0,50	-0,25	5,4	3,4	2,5
36.0	0	-0,06	0,50	-0,25	5,4	3,5	2,5
37.0	0	-0,06	0,50	-0,25	5,5	3,6	2,5
38.0	0	-0,06	0,50	-0,25	5,5	3,7	2,5
39.0	0	-0,06	0,50	-0,25	5,6	3,8	2,5
40.0	0	-0,06	0,90	-0,39	5,8	3,9	2,5
41.0	0	-0,06	0,90	-0,39	5,9	4,0	2,5
42.0	0	-0,06	0,90	-0,39	5,9	4,1	2,5
43.0	0	-0,06	0,90	-0,39	5,9	4,2	2,5
44.0	0	-0,06	0,90	-0,39	6,0	4,2	2,5
45.0	0	-0,06	0,90	-0,39	6,2	4,3	2,5
46.0	0	-0,06	1,10	-0,46	6,3	4,4	2,5
47.0	0	-0,06	1,10	-0,46	6,4	4,4	2,5
48.0	0	-0,06	1,10	-0,46	6,4	4,5	2,5
50.0	0	-0,07	1,10	-0,46	6,5	4,6	2,5
51.0	0	-0,07	1,10	-0,46	6,5	4,7	2,5
52.0	0	-0,07	1,10	-0,46	6,7	4,7	2,5
53.0	0	-0,07	1,10	-0,46	6,7	4,9	2,5
54.0	0	-0,07	1,10	-0,46	6,7	5,0	2,5
55.0	0	-0,07	1,10	-0,46	6,8	5,0	2,5
56.0	0	-0,07	1,10	-0,46	6,8	5,1	2,5
57.0	0	-0,07	1,10	-0,46	6,8	5,1	2,5
58.0	0	-0,07	1,10	-0,46	6,9	5,2	2,5
60.0	0	-0,07	1,10	-0,46	7,3	5,4	2,5

Ref.	s +	s -	d3 +	d3 -	a max	b ≈	d5 min
62.0	0	-0,07	1,10	-0,46	7,3	5,5	2,5
63.0	0	-0,07	1,10	-0,46	7,3	5,6	2,5
64.0	0	-0,07	1,10	-0,46	7,4	5,7	2,5
65.0	0	-0,07	1,10	-0,46	7,6	5,8	3,0
67.0	0	-0,07	1,10	-0,46	7,7	6,0	3,0
68.0	0	-0,07	1,10	-0,46	7,8	6,1	3,0
70.0	0	-0,07	1,10	-0,46	7,8	6,2	3,0
72.0	0	-0,07	1,10	-0,46	7,8	6,4	3,0
75.0	0	-0,07	1,10	-0,46	7,8	6,6	3,0
78.0	0	-0,07	1,30	-0,54	8,5	6,8	3,0
77.0	0	-0,07	1,30	-0,54	8,5	6,8	3,0
80.0	0	-0,07	1,30	-0,54	8,5	7,0	3,0
82.0	0	-0,07	1,30	-0,54	8,5	7,0	3,0
85.0	0	-0,08	1,30	-0,54	8,6	7,2	3,5
88.0	0	-0,08	1,30	-0,54	8,6	7,4	3,5
87.0	0	-0,08	1,30	-0,54	8,6	7,4	3,5
90.0	0	-0,08	1,30	-0,54	8,6	7,6	3,5
92.0	0	-0,08	1,30	-0,54	8,7	7,8	3,5
95.0	0	-0,08	1,30	-0,54	8,8	8,1	3,5
98.0	0	-0,08	1,30	-0,54	9,0	8,3	3,5
97.0	0	-0,08	1,30	-0,54	9,0	8,3	3,5
100.0	0	-0,08	1,30	-0,54	9,2	8,4	3,5
102.0	0	-0,10	1,30	-0,54	9,5	8,5	3,5
105.0	0	-0,10	1,30	-0,54	9,5	8,7	3,5
108.0	0	-0,10	1,30	-0,54	9,5	8,9	3,5
107.0	0	-0,10	1,30	-0,54	9,5	8,9	3,5
110.0	0	-0,10	1,30	-0,54	10,4	9,0	3,5
112.0	0	-0,10	1,30	-0,54	10,5	9,1	3,5
115.0	0	-0,10	1,50	-0,63	10,5	9,3	3,5
118.0	0	-0,10	1,50	-0,63	10,7	9,6	3,5
117.0	0	-0,10	1,50	-0,63	10,7	9,6	3,5
120.0	0	-0,10	1,50	-0,63	11,0	9,7	3,5
122.0	0	-0,10	1,50	-0,63	11,0	9,8	4,0
125.0	0	-0,10	1,50	-0,63	11,0	10,0	4,0

Ref.	s +	s -	d3 +	d3 -	a max	b ≈	d5 min
128.0	0	-0,10	1,50	-0,63	11,0	10,2	4,0
127.0	0	-0,10	1,50	-0,63	11,0	10,2	4,0
130.0	0	-0,10	1,50	-0,63	11,0	10,2	4,0
135.0	0	-0,10	1,50	-0,63	11,2	10,5	4,0
138.0	0	-0,10	1,50	-0,63	11,2	10,6	4,0
137.0	0	-0,10	1,50	-0,63	11,2	10,6	4,0
140.0	0	-0,10	1,50	-0,63	11,2	10,7	4,0
142.0	0	-0,10	1,50	-0,63	11,3	10,8	4,0
145.0	0	-0,10	1,50	-0,63	11,4	10,9	4,0
148.0	0	-0,10	1,50	-0,63	11,8	11,1	4,0
147.0	0	-0,10	1,50	-0,63	11,8	11,1	4,0
150.0	0	-0,10	1,50	-0,63	12,0	11,2	4,0
152.0	0	-0,10	1,50	-0,63	12,0	11,3	4,0
155.0	0	-0,10	1,50	-0,63	12,0	11,4	4,0
158.0	0	-0,10	1,50	-0,63	12,3	11,5	4,0
157.0	0	-0,10	1,50	-0,63	12,3	11,5	4,0
160.0	0	-0,10	1,50	-0,63	13,0	11,6	4,0
162.0	0	-0,10	1,50	-0,63	13,0	11,7	4,0
165.0	0	-0,10	1,50	-0,63	13,0	11,8	4,0
168.0	0	-0,10	1,50	-0,63	13,5	12,1	4,0
167.0	0	-0,10	1,50	-0,63	13,5	12,1	4,0
170.0	0	-0,10	1,50	-0,63	13,5	12,2	4,0
172.0	0	-0,10	1,70	-0,72	13,5	12,5	4,0
175.0	0	-0,10	1,70	-0,72	13,5	12,7	4,0
178.0	0	-0,10	1,70	-0,72	14,2	12,9	4,0
177.0	0	-0,10	1,70	-0,72	14,2	12,9	4,0
180.0	0	-0,10	1,70	-0,72	14,2	13,2	4,0
185.0	0	-0,10	1,70	-0,72	14,2	13,7	4,0
190.0	0	-0,10	1,70	-0,72	14,2	13,8	4,0
195.0	0	-0,10	1,70	-0,72	14,2	13,8	4,0
192.0	0	-0,10	1,70	-0,72	14,2	13,8	4,0
200.0	0	-0,10	1,70	-0,72	14,2	14,0	4,0
205.0	0	-0,12	1,70	-0,72	14,2	14,0	4,0
210.0	0	-0,12	1,70	-0,72	14,2	14,0	4,0

Ref.	s +	s -	d3 +	d3 -	a max	b ≈	d5 min
215.0	0	-0,12	1,70	-0,72	14,2	14,0	4,0
220.0	0	-0,12	1,70	-0,72	14,2	14,0	4,0
225.0	0	-0,12	1,70	-0,72	14,2	14,0	4,0
230.0	0	-0,12	1,70	-0,72	14,2	14,0	4,0
235.0	0	-0,12	2,00	-0,81	14,2	14,0	4,0
240.0	0	-0,12	2,00	-0,81	14,2	14,0	4,0
245.0	0	-0,12	2,00	-0,81	14,2	14,0	4,0
250.0	0	-0,12	2,00	-0,81	14,2	14,0	4,0
255.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
260.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
265.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
270.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
275.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
280.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
290.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
295.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0
300.0	0	-0,12	2,00	-0,81	16,2	16,0	5,0

Request a quote

Specify type, standard, diameter, material, finish, quantity, application and required delivery. Attach the seat drawing. Other materials and finishes are available on request.

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