

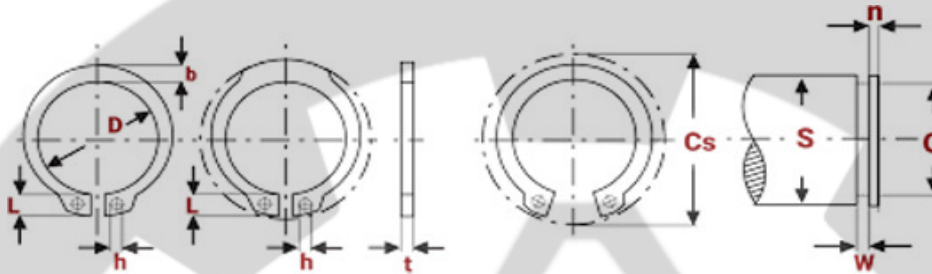


STANDARD EXTERNAL CIRCLIP

DIN 471 METRIC

CATALOGUE NUMBER: **R4G59X**

STAINLESS STEEL



The most common form of axially fitted circlips for shafts with grooves. Constructed as curved beams of uniform strength, the radial width is reduced towards the free ends so that a constantly round shape is maintained throughout continuous use. This form of circlips are often used in assemblies subjected to strong centrifugal forces and are also secure against high rotational speeds. Lugs with holes are provided for rapid fitting for removal with circlip pliers.

Key to Table Headings and Abbreviations

Al	Axial Load
b	Beam
B	Bore Diameter
Brg	Nominal Dimensions of Bearings
C	Circlip in Groove
Cb	Clearance in Bore
Cm	Circlip on Shaft
Cs	Clearance on Shaft
D	Free Diameter
Fn	Load Carrying Capacity of Groove
Fr	Load Carrying Capacity of Ring
g	Gap Size
G	Groove Diameter
h	Hole Diameter

ins	Inches
kN	Kilo Newtons
Lb.F	Pounds Force
L	Lug
mm	Millimeters
n	Edge Margin
N	Newtons
r	Radius
Rd	Radial Depth
RPM	Revs per Minute
S	Shaft Diameter
t	Thickness
Tol	Tolerance
W	Groove Width



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DIN 471 METRIC

CATALOGUE NUMBER: **R4G59X**

STAINLESS STEEL

28	1.50		25.9		37.9	3.2	4.7	2.0	32.1	26.6		1.6	2.1	10.00	R4G59X00028
29	1.50		26.9		39.1	3.4	4.8	2.0	31.8	27.6		1.6	2.1	10.37	R4G59X00029
30	1.50		27.9		40.5	3.5	5.0	2.0	32.1	28.6		1.6	2.1	10.73	R4G59X00030
31	1.50		28.6		41.5	3.5	5.0	2.5	31.5	29.3		1.6	2.6	13.85	R4G59X00031
32	1.50		29.6		43.0	3.6	5.2	2.5	31.2	30.3		1.6	2.6	13.85	R4G59X00032
33	1.50		30.5		44.0	3.7	5.2	2.5	31.6	31.3		1.6	2.6	14.30	R4G59X00033
34	1.50		31.5		45.4	3.8	5.4	2.5	31.3	32.3		1.6	2.6	14.72	R4G59X00034
35	1.50		32.2		46.8	3.9	5.6	2.5	30.8	33.0		1.85	3.0	17.80	R4G59X00035
36	1.75		33.2	+0.25	47.8	4.0	5.6	2.5	49.4	34.0		1.85	3.0	18.33	R4G59X00036
37	1.75		34.2	-0.50	49.0	4.1	5.7	2.5	50.0	35.0		1.85	3.0	18.80	R4G59X00037
38	1.75		35.2		50.2	4.2	5.8	2.5	49.5	36.0		1.85	3.8	19.30	R4G59X00038
39	1.75		36.0		51.4	4.3	5.9	2.5	49.8	37.0		1.85	3.8	19.90	R4G59X00039
40	1.75		36.5		52.6	4.4	6.0	2.5	51.0	37.5		1.85	3.8	25.30	R4G59X00040
41	1.75		37.5		54.1	4.5	6.2	2.5	50.1	38.5	+0.00 -0.25	1.85	3.8	26.00	R4G59X00041
42	1.75		38.5		55.7	4.5	6.5	2.5	50.0	39.5		1.85	3.8	26.70	R4G59X00042
43	1.75		39.5		56.7	4.6	6.5	2.5	49.0	40.5		1.85	3.8	27.30	R4G59X00043
44	1.75		40.5		57.9	4.6	6.6	2.5	48.5	41.5		1.85	3.8	28.00	R4G59X00044
45	1.75		41.5		59.1	4.7	6.7	2.5	49.0	42.5		1.85	3.8	28.06	R4G59X00045
46	1.75		42.5	+0.39	60.1	4.8	6.7	2.5	48.9	43.5		1.85	3.8	29.04	R4G59X00046
47	1.75		43.5	-0.90	61.3	4.9	6.8	2.5	49.5	44.5		1.85	3.8	30.00	R4G59X00047
48	1.75		44.5		62.5	5.0	6.9	2.5	49.4	45.5		1.85	3.8	30.07	R4G59X00048
50	2.00		45.8		64.5	5.1	6.9	2.5	73.3	47.0		2.15	4.5	38.00	R4G59X00050
51	2.00		46.8		65.7	5.2	7.0	2.5	73.2	48.0		2.15	4.5	38.80	R4G59X00051
52	2.00		47.8		66.7	5.2	7.0	2.5	73.1	49.0		2.15	4.5	39.70	R4G59X00052
53	2.00	+0.00 -0.07	48.8		68.0	5.3	7.1	2.5	72.2	50.0		2.15	4.5	40.40	R4G59X00053
54	2.00		49.8	+0.46	69.0	5.3	7.1	2.5	71.2	51.0	+0.00 -0.30	2.15	4.5	41.20	R4G59X00054
55	2.00		50.8	-1.10	70.2	5.4	7.2	2.5	71.4	52.0		2.15	4.5	42.00	R4G59X00055
56	2.00		51.8		71.6	5.5	7.3	2.5	70.8	53.0		2.15	4.5	42.80	R4G59X00056



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STANDARD EXTERNAL CIRCLIP

DIN 471 METRIC

CATALOGUE NUMBER: **R4G59X**

STAINLESS STEEL

57	2.00		52.8		72.4	5.5	7.3	2.5	70.9	54.0		2.15	4.5	43.70	R4G59X00057
58	2.00		53.8		73.6	5.6	7.3	2.5	71.1	55.0		2.15	4.5	44.30	R4G59X00058
60	2.00		55.8		75.6	5.8	7.4	2.5	69.2	57.0		2.15	4.5	46.00	R4G59X00060
62	2.00		57.8		77.8	6.0	7.5	2.5	69.3	59.0		2.15	4.5	47.50	R4G59X00062
63	2.00		58.8		79.0	6.2	7.6	2.5	70.2	60.0		2.15	4.5	48.30	R4G59X00063
65	2.50		60.8		81.4	6.3	7.8	3.0	135.6	62.0		2.65	4.5	49.80	R4G59X00065
67	2.50		62.5		83.6	6.4	7.9	3.0	136.1	64.0		2.65	4.5	51.30	R4G59X00067
68	2.50		63.5		84.4	6.5	8.0	3.0	135.9	65.0		2.65	4.5	52.20	R4G59X00068
70	2.50		65.5	+0.46	87.0	6.6	8.1	3.0	134.2	67.0	+0.00	2.65	4.5	53.80	R4G59X00070
72	2.50	+0.00	67.5	-1.10	89.2	6.8	8.2	3.0	131.8	69.0	-0.30	2.65	4.5	55.30	R4G59X00072
75	2.50	-0.07	70.5		92.7	7.0	8.4	3.0	130.0	72.0		2.65	4.5	57.60	R4G59X00075
77	2.50		72.5		94.9	7.2	8.5	3.0	131.3	74.0		2.65	4.5	59.30	R4G59X00077
78	2.50		73.5		96.1	7.3	8.6	3.0	131.3	75.0		2.65	4.5	60.00	R4G59X00078
80	2.50		74.5		98.1	7.4	8.6	3.0	128.4	76.5		2.65	5.3	71.60	R4G59X00080
82	2.50		76.5		100.3	7.6	8.7	3.0	128.0	78.5		2.65	5.3	73.50	R4G59X00082
85	3.00		79.5		103.3	7.8	8.7	3.5	215.4	81.5		3.15	5.3	76.20	R4G59X00085
87	3.00		81.5		105.5	7.9	8.8	3.5	222.2	83.5		3.15	5.3	78.20	R4G59X00087
88	3.00		82.5		106.5	8.0	8.8	3.5	221.8	84.5		3.15	5.3	79.00	R4G59X00088
90	3.00		84.5		108.5	8.2	8.8	3.5	217.2	86.5		3.15	5.3	80.80	R4G59X00090
92	3.00	+0.00	86.5		111.0	8.4	9.0	3.5	217.0	88.8	+0.00	3.15	5.3	82.70	R4G59X00092
95	3.00	-0.08	89.5		114.8	8.6	9.4	3.5	212.2	91.5	-0.35	3.15	5.3	85.50	R4G59X00095
97	3.00		91.5	+0.54	116.8	8.8	9.4	3.5	211.1	93.5		3.15	5.3	87.30	R4G59X00097
98	3.00		92.5	-1.30	118.0	9.0	9.5	3.5	208.1	94.5		3.15	5.3	88.20	R4G59X00098
100	3.00		94.5		120.2	9.0	9.6	3.5	206.4	96.5		3.15	5.3	90.00	R4G59X00100
102	4.00		95.0		122.4	9.2	9.7	3.5	482.3	98.0		4.15	6.0	104.6	R4G59X00102
105	4.00	+0.00	98.0		125.8	9.3	9.9	3.5	471.8	101.0	+0.00	4.15	6.0	107.6	R4G59X00105
108	4.00	-0.10	101.0		129.0	9.5	10.0	3.5	459.8	104.0	-0.54	4.15	6.0	111.0	R4G59X00108
110	4.00		103.0		131.2	9.6	10.1	3.5	457.0	106.0		4.15	6.0	113.0	R4G59X00110



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STANDARD EXTERNAL CIRCLIP

DIN 471 METRIC

CATALOGUE NUMBER: R4G59X

STAINLESS STEEL

112	4.00		105.0		133.7	9.7	10.3	3.5	451.5	108.0		4.15	6.0	115.0	R4G59X00112
115	4.00		108.0		137.7	9.8	10.6	3.5	438.6	111.0		4.15	6.0	118.2	R4G59X00115
120	4.00		113.0		143.1	10.2	11.0	3.5	424.6	116.0		4.15	6.0	123.5	R4G59X00120
125	4.00		118.0		149.0	10.4	11.4	4.0	411.5	121.0		4.15	6.0	128.7	R4G59X00125
130	4.00		123.0		154.4	10.7	11.6	4.0	395.5	126.0		4.15	6.0	134.0	R4G59X00130
135	4.00		128.0		159.8	11.0	11.8	4.0	389.5	131.0		4.15	6.0	139.2	R4G59X00135
140	4.00		133.0		165.2	11.2	12.0	4.0	376.5	136.0		4.15	6.0	144.5	R4G59X00140
145	4.00		138.0		170.6	11.5	12.2	4.0	367.0	141.0		4.15	6.0	149.6	R4G59X00145
150	4.00		142.0		177.3	11.8	13.0	4.0	357.5	145.0		4.15	6.0	193.0	R4G59X00150
155	4.00		146.0	+0.63	182.3	12.0	13.0	4.0	352.9	150.0	+0.00	4.15	7.5	199.6	R4G59X00155
160	4.00		151.0	-1.50	188.0	12.2	13.3	4.0	349.2	155.0	-0.63	4.15	7.5	206.1	R4G59X00160
165	4.00		155.5		193.4	12.5	13.5	4.0	345.3	160.0		4.15	7.5	212.5	R4G59X00165
170	4.00		160.5		198.4	12.9	13.5	4.0	349.2	165.0		4.15	7.5	219.1	R4G59X00170
175	4.00		165.5		203.4	12.9	13.5	4.0	340.1	170.0		4.15	7.5	225.5	R4G59X00175
180	4.00		170.5		210.0	14.0	14.2	4.0	345.3	175.0		4.15	7.5	232.2	R4G59X00180
185	4.00		175.5		215.0	14.0	14.2	4.0	336.7	180.0		4.15	7.5	238.6	R4G59X00185
190	4.00		180.5		220.0	14.0	14.2	4.0	333.8	185.0		4.15	7.5	245.1	R4G59X00190
195	4.00		185.5		225.0	14.0	14.2	4.0	325.4	190.0		4.15	7.5	251.8	R4G59X00195
200	4.00		190.5		230.0	14.0	14.2	4.0	319.2	195.0		4.15	7.5	258.3	R4G59X00200
205	5.00		193.0		235.0	14.0	14.2	4.0	611.7	199.0		5.15	9.0	317.5	R4G59X00205
210	5.00		198.0		240.0	14.0	14.2	4.0	598.2	204.0		5.15	9.0	325.1	R4G59X00210
215	5.00		203.0	+0.72	245.0	14.0	14.2	4.0	585.1	209.0	+0.00	5.15	9.0	332.8	R4G59X00215
220	5.00		208.0	-1.70	250.0	14.0	14.2	4.0	572.4	214.0	-0.72	5.15	9.0	340.8	R4G59X00220
225	5.00	+0.00	213.0	-0.12	255.0	14.0	14.2	4.0	559.8	219.0		5.15	9.0	349.1	R4G59X00225
230	5.00		218.0		260.0	14.0	14.2	4.0	548.9	224.0		5.15	9.0	356.6	R4G59X00230
235	5.00		223.0		265.0	14.0	14.2	4.0	537.1	229.0		5.15	9.0	364.1	R4G59X00235
240	5.00		228.0		270.0	14.0	14.2	4.0	530.3	234.0		5.15	9.0	372.6	R4G59X00240
245	5.00		233.0		275.0	14.0	14.2	4.0	512.2	239.0		5.15	9.0	380.0	R4G59X00245



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DIN 471 METRIC

CATALOGUE NUMBER: **R4G59X**

STAINLESS STEEL

250	5.00		238.0		280.0	14.0	14.2	4.0	504.3	244.0		5.15	9.0	388.3	R4G59X00250
255	5.00		240.0		289.0	16.0	16.2	5.0	557.1	247.0		5.15	12.0	525.0	R4G59X00255
260	5.00		245.0		294.0	16.0	16.2	5.0	540.6	252.0		5.15	12.0	535.8	R4G59X00260
265	5.00		250.0		299.0	16.0	16.2	5.0	536.2	257.0		5.15	12.0	546.6	R4G59X00265
270	5.00		255.0		304.0	16.0	16.2	5.0	525.3	262.0		5.15	12.0	556.6	R4G59X00270
275	5.00		260.0		309.0	16.0	16.2	5.0	516.7	267.0		5.15	12.0	566.6	R4G59X00275
280	5.00		265.0		314.0	16.0	16.2	5.0	508.2	272.0		5.15	12.0	576.6	R4G59X00280
285	5.00		270.0		319.0	16.0	16.2	5.0	499.1	277.0		5.15	12.0	587.5	R4G59X00285
290	5.00		275.0	+0.81	324.0	16.0	16.2	5.0	490.8	282.0	+0.00 -0.81	5.15	12.0	599.1	R4G59X00290
295	5.00		280.0	-2.00	329.0	16.0	16.2	5.0	481.8	287.0		5.15	12.0	609.1	R4G59X00295
300	5.00		285.0		334.0	16.0	16.2	5.0	475.0	292.0		6.20	15.0	619.1	R4G59X00300
310	6.00		293.0		352.5	20.0	20.2	6.0	1016.9.0	300.0		6.20	15.0	796.6	R4G59X00310
320	6.00		303.0		362.5	20.0	20.2	6.0	988.6	310.0		6.20	15.0	825.0	R4G59X00320
330	6.00		313.0		372.5	20.0	20.2	6.0	958.4	320.0		6.20	15.0	850.0	R4G59X00330
340	6.00		323.0		382.5	20.0	20.2	6.0	932.7	330.0		6.20	15.0	876.6	R4G59X00340
350	6.00	+0.00 -0.18	333.0		392.5	20.0	20.2	6.0	905.6	340.0		6.20	15.0	903.3	R4G59X00350
360	6.00		343.0	+0.90	402.5	20.0	20.2	6.0	880.7	350.0	+0.00 -0.89	6.20	15.0	928.3	R4G59X00360
370	6.00		353.0	-2.50	412.5	20.0	20.2	6.0	856.7	360.0		6.20	15.0	955.0	R4G59X00370
380	6.00		363.0		422.5	20.0	20.2	6.0	833.5	370.0		6.20	15.0	980.0	R4G59X00380
390	6.00		373.0		432.5	20.0	20.2	6.0	814.3	380.0		6.20	15.0	1008	R4G59X00390
400	6.00		383.0		442.5	20.0	20.2	6.0	793.4	390.0		6.20	15.0	1033	R4G59X00400