



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



8310165941 / 9959457863



sales@royalfastenersindia.com



www.royalfastenersindia.com

TECHNICAL DATA SHEET

EXTERNAL CIRCLIPS



MATERIAL- STAINLESS STEEL

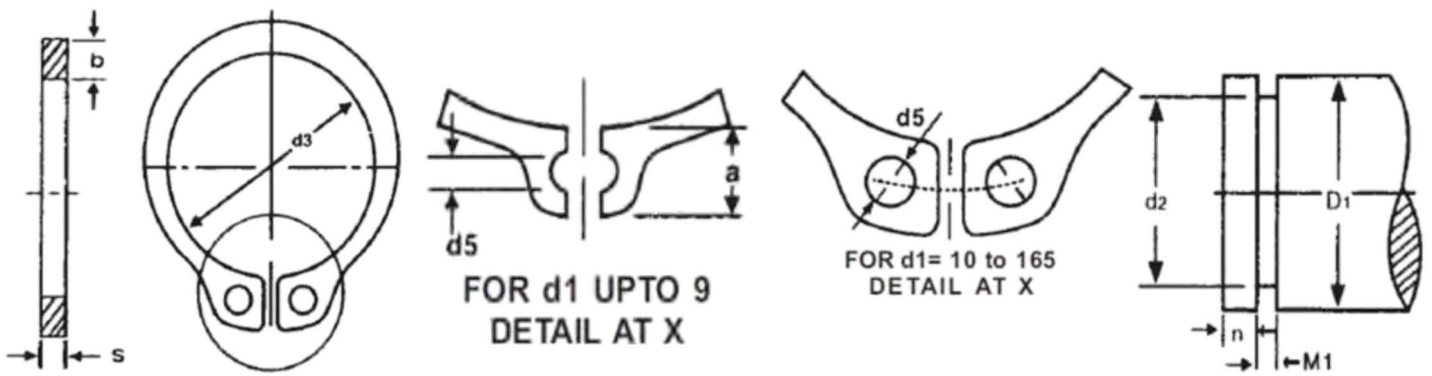
GRADE-SS304/SS301

AS PER-DIN-471

CATALOGUE NO. R4G59X/R1G59X

INSTALLATION GUIDE

- VERIFY THE CIRCLIP SIZE MATCHES THE SHAFT DIAMETER AND GROOVE SPECIFICATION.
- INSPECT THE CIRCLIP FOR CRACKS, DEFORMATION, CORROSION, OR LOSS OF SPRING TENSION BEFORE INSTALLATION.
- ENSURE THE SHAFT GROOVE IS CLEAN, PROPERLY MACHINED, AND FREE FROM BURRS OR DAMAGE.
- USE THE CORRECT EXTERNAL CIRCLIP PLIERS FOR SAFE AND ACCURATE INSTALLATION.
- INSERT THE PLIER TIPS SECURELY INTO THE CIRCLIP HOLES.
- EXPAND THE CIRCLIP CAREFULLY USING THE PLIERS.
- AVOID OVER-EXPANDING THE CIRCLIP TO PREVENT PERMANENT DEFORMATION.
- SLIDE THE EXPANDED CIRCLIP OVER THE SHAFT TO THE GROOVE LOCATION.
- ALIGN THE CIRCLIP WITH THE SHAFT GROOVE BEFORE RELEASING.
- RELEASE THE PLIERS SLOWLY TO ALLOW THE CIRCLIP TO CONTRACT INTO THE GROOVE.
- ENSURE THE CIRCLIP IS FULLY SEATED AND EVENLY ENGAGED IN THE GROOVE.
- ROTATE THE CIRCLIP SLIGHTLY TO CONFIRM PROPER FITMENT.
- VERIFY THAT THE CIRCLIP CANNOT MOVE AXIALLY OUT OF THE GROOVE.
- ENSURE THE RETAINED COMPONENT IS POSITIONED CORRECTLY AGAINST THE CIRCLIP.
- INSPECT THE FINAL ASSEMBLY FOR PROPER RETENTION, ALIGNMENT, AND SECURE INSTALLATION.



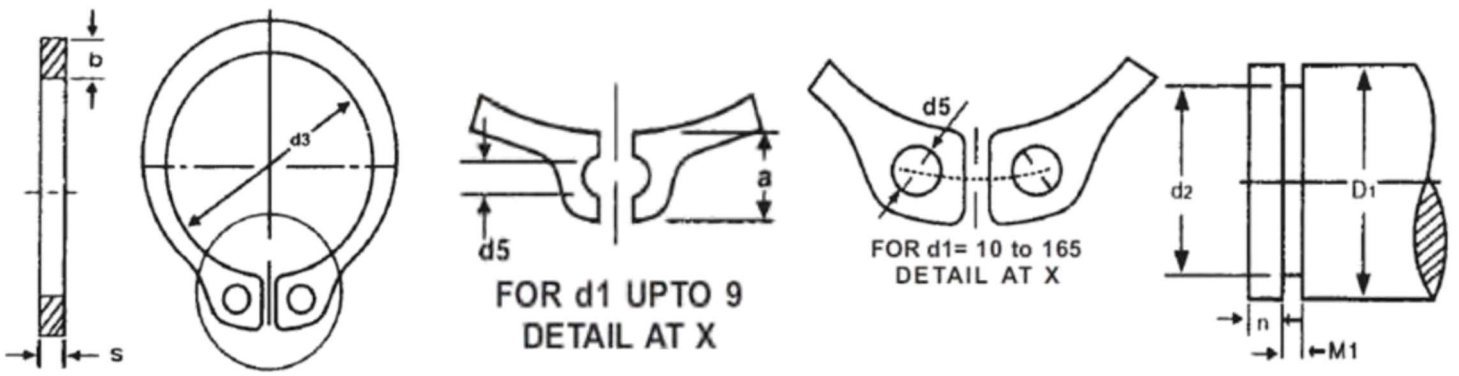
NOTE: SIZES ABOVE 100MM IS SS301 AND PART NO. IS STARTING WITH R1

Quote the PART NUMBER given below with your order/ inquiries:

All Dimensions in mm

Part Number	Circlip Dimensions					Groove Dimensions						
	Shaft D1	s	Tol	d3	Tol	a	b	d5	d2	Tol	M1	n
R4G59X03000	3	0.40	+0.00	2.7	-0.05	1.9	0.8	1.0	2.8	+0.00	0.5	0.3
R4G59X04000	4	0.40		3.7		2.2	0.9	1.0	3.8		0.5	0.3
R4G59X05000	5	0.60		4.7		2.5	1.1	1.0	4.8		0.7	0.3
R4G59X06000	6	0.70	-0.05	5.6	+0.09	2.7	1.3	1.2	5.7	+0.00	0.8	0.5
R4G59X07000	7	0.80		6.5		3.1	1.4	1.2	6.7		0.9	0.5
R4G59X08000	8	0.80		7.4		3.2	1.5	1.2	7.6		0.9	0.6
R4G59X09000	9	1.00	-0.06	8.4	-0.18	3.3	1.7	1.2	8.6	+0.00	1.1	0.6
R4G59X10000	10	1.00		9.3		3.3	1.8	1.5	9.6		1.1	0.6
R4G59X11000	11	1.00		10.2		3.3	1.8	1.5	10.5		1.1	0.8
R4G59X12000	12	1.00	+0.18	11.0	-0.36	3.3	1.8	1.7	11.5	+0.00	1.1	0.8
R4G59X13000	13	1.00		11.9		3.4	2.0	1.7	12.4		1.1	0.9
R4G59X14000	14	1.00		12.9		3.5	2.1	1.7	13.4		1.1	0.9
R4G59X15000	15	1.00	-0.11	13.8	+0.00	3.6	2.2	1.7	14.3	-0.11	1.1	1.1
R4G59X16000	16	1.00		14.7		3.7	2.2	1.7	15.2		1.1	1.2
R4G59X17000	17	1.00		15.7		3.8	2.3	1.7	16.2		1.1	1.2
R4G59X18000	18	1.20	+0.00	16.5	-0.21	3.9	2.4	2.0	17.0	-0.21	1.3	1.5
R4G59X19000	19	1.20		17.5		3.9	2.5	2.0	18.0		1.3	1.5
R4G59X20000	20	1.20		18.5		4.0	2.6	2.0	19.0		1.3	1.5
R4G59X21000	21	1.20	-0.21	19.5	-0.42	4.1	2.7	2.0	20.0	+0.00	1.3	1.5
R4G59X22000	22	1.20		20.5		4.2	2.8	2.0	21.0		1.3	1.5
R4G59X23000	23	1.20		21.5		4.3	2.9	2.0	22.0		1.3	1.5
R4G59X24000	24	1.20	+0.00	22.5	-0.25	4.4	3.0	2.0	22.9	-0.25	1.3	1.7
R4G59X25000	25	1.20		23.5		4.4	3.0	2.0	23.9		1.3	1.7
R4G59X26000	26	1.20		24.2		4.5	3.1	2.0	24.9		1.3	1.7
R4G59X27000	27	1.20	-0.21	24.9	+0.00	4.6	3.1	2.0	25.6	-0.21	1.3	2.1
R4G59X28000	28	1.50		25.9		4.7	3.2	2.0	26.6		1.6	2.1
R4G59X29000	29	1.50		26.9		4.8	3.4	2.0	27.6		1.6	2.1
R4G59X30000	30	1.50	+0.00	27.9	-0.50	5.0	3.5	2.0	28.6	+0.00	1.6	2.1
R4G59X31000	31	1.50		28.6		5.0	3.5	2.5	29.3		1.6	2.6
R4G59X32000	32	1.50		29.6		5.2	3.6	2.5	30.3		1.6	2.6
R4G59X33000	33	1.50	-0.06	30.5	+0.25	5.2	3.7	2.5	31.3	-0.06	1.6	2.6
R4G59X34000	34	1.50		31.5		5.4	3.8	2.5	32.3		1.6	2.6
R4G59X35000	35	1.50		32.2		5.6	3.9	2.5	33.0		1.6	3.0
R4G59X36000	36	1.75	+0.00	33.2	-0.90	5.6	4.0	2.5	34.0	+0.00	1.85	3.0
R4G59X37000	37	1.75		34.2		5.7	4.1	2.5	35.0		1.85	3.0
R4G59X38000	38	1.75		35.2		5.8	4.2	2.5	36.0		1.85	3.0
R4G59X39000	39	1.75	-0.25	36.0	+0.39	5.9	4.3	2.5	37.0	-0.25	1.85	3.8
R4G59X40000	40	1.75		36.5		6.0	4.4	2.5	37.5		1.85	3.8
R4G59X41000	41	1.75		37.5		6.2	4.5	2.5	38.5		1.85	3.8
R4G59X42000	42	1.75	+0.00	38.5	-0.90	6.5	4.5	2.5	39.5	+0.00	1.85	3.8
R4G59X44000	44	1.75		40.5		6.6	4.6	2.5	41.5		1.85	3.8
R4G59X45000	45	1.75		41.5		6.7	4.7	2.5	42.5		1.85	3.8
R4G59X46000	46	1.75	-0.06	42.5	-0.90	6.7	4.8	2.5	43.5	-0.25	1.85	3.8

Sizes in BLUE are non-preferred. Availability is limited and MOQ is applied. *Data is strictly informative*



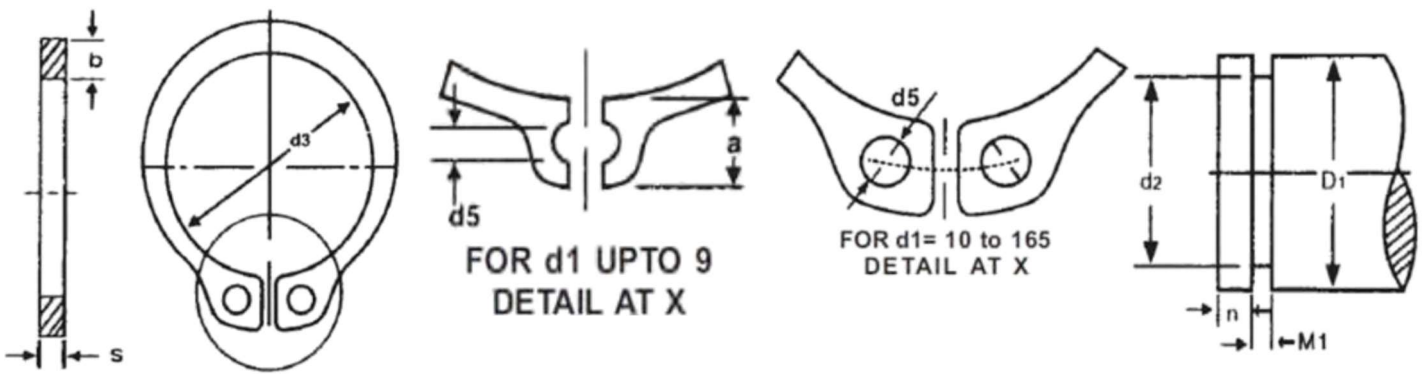
NOTE: SIZES ABOVE 100MM IS SS301 AND PART NO. IS STARTING WITH R1

Quote the PART NUMBER given below with your order/ inquiries:

All Dimensions in mm

Part Number	Circlip Dimensions								Groove Dimensions			
	Shaft D1	s	Tol	d3	Tol	a	b	d5	d2	Tol	M1	n
R4G59X47000	47	1.75		53.5		6.8	4.9	2.5	44.5		1.85	3.8
R4G59X48000	48	1.75		44.5	+0.39	6.9	5.0	2.5	45.5		1.85	3.8
R4G59X50000	50	2.00		45.8	-0.90	6.9	5.1	2.5	47.0		2.15	4.5
R4G59X52000	52	2.00		47.8		7.0	5.2	2.5	49.0		2.15	4.5
R4G59X54000	54	2.00		49.8		7.1	5.3	2.5	51.0		2.15	4.5
R4G59X55000	55	2.00		50.8		7.2	5.4	2.5	52.0		2.15	4.5
R4G59X56000	56	2.00		51.8		7.3	5.5	2.5	53.0		2.15	4.5
R4G59X57000	57	2.00		52.8		7.3	5.5	2.5	54.0		2.15	4.5
R4G59X58000	58	2.00		53.8		7.3	5.6	2.5	55.0		2.15	4.5
R4G59X60000	60	2.00		55.8		7.4	5.8	2.5	57.0		2.15	4.5
R4G59X62000	62	2.00		57.8		7.5	6.0	2.5	59.0		2.15	4.5
R4G59X63000	63	2.00		58.8		7.6	6.2	2.5	60.0		2.15	4.5
R4G59X65000	65	2.50		60.8		7.8	6.3	3.0	62.0		2.65	4.5
R4G59X67000	67	2.50		62.8		7.9	6.4	3.0	64.0		2.65	4.5
R4G59X68000	68	2.50		63.5		8.0	6.5	3.0	65.0		2.65	4.5
R4G59X70000	70	2.50		65.5		8.1	6.6	3.0	67.0		2.65	4.5
R4G59X72000	72	2.50	+0.00	67.5		8.2	6.8	3.0	69.0	+0.00	2.65	4.5
R4G59X75000	75	2.50	-0.07	70.5	+0.46	8.4	7.0	3.0	72.0	-0.30	2.65	4.5
R4G59X77000	77	2.50		72.5	-1.10	8.5	7.2	3.0	74.0		2.65	4.5
R4G59X78000	78	2.50		73.5		8.6	7.3	3.0	75.0		2.65	4.5
R4G59X80000	80	2.50		74.5		8.6	7.4	3.0	76.5		2.65	5.3
R4G59X82000	82	2.50		76.5		8.7	7.6	3.0	78.5		2.65	5.3
R4G59X85000	85	3.00		79.5		8.7	7.8	3.5	81.5		3.15	5.3
R4G59X87000	87	3.00		81.5		8.8	7.9	3.5	83.5		3.15	5.3
R4G59X88000	88	3.00		82.5		8.8	8.0	3.5	84.5		3.15	5.3
R4G59X90000	90	3.00		84.5		8.8	8.2	3.5	86.5		3.15	5.3
R4G59X92000	92	3.00		86.5		9.0	8.4	3.5	88.5		3.15	5.3
R4G59X95000	95	3.00	+0.00	89.5		9.4	8.6	3.5	91.5	+0.00	3.15	5.3
R4G59X97000	97	3.00	-0.08	91.5		9.4	8.8	3.5	93.5	-0.35	3.15	5.3
R4G59X98000	98	3.00		92.5		9.5	9.0	3.5	94.5		3.15	5.3
R4G59X00100	100	3.00		94.5		9.6	9.0	3.5	96.5		3.15	5.3
R1G59X00102	102	4.00		95.0		9.7	9.2	3.5	98.0		4.15	6.0
R1G59X00105	105	4.00		98.0		9.9	9.3	3.5	101.0		4.15	6.0
R1G59X00107	107	4.00		100.0		10.0	9.5	3.5	103.0		4.15	6.0
R1G59X00108	108	4.00		100.0		10.0	9.5	3.5	104.0		4.15	6.0
R1G59X00110	110	4.00		103.0		10.1	9.6	3.5	106.0		4.15	6.0
R1G59X00112	112	4.00		105.0		10.3	9.7	3.5	108.0		4.15	6.0
R1G59X00115	115	4.00		107.0	+0.54	10.6	9.8	3.5	111.0	+0.00	4.15	6.0
R1G59X00117	117	4.00		110.0	-1.30	10.8	10.0	3.5	113.0	-0.54	4.15	6.0
R1G59X00118	118	4.00		110.0		10.9	10.1	3.5	114.0		4.15	6.0
R1G59X00120	120	4.00		113.0		11.0	10.2	3.5	116.0		4.15	6.0
R1G59X00122	122	4.00		115.0		11.2	10.3	4.0	118.0		4.15	6.0
R1G59X00125	125	4.00		118.0		11.4	10.4	4.0	121.0		4.15	6.0

Sizes in BLUE are non-preferred. Availability is limited and MOQ is applied. **Data is strictly informative**



NOTE: SIZES ABOVE 100MM IS SS301 AND PART NO. IS STARTING WITH R1

Quote the PART NUMBER given below with your order/ inquiries:

All Dimensions in mm

Part Number	Circlip Dimensions						Groove Dimensions					
	Shaft D1	s	Tol	d3	Tol	a	b	d5	d2	Tol	M1	n
R1G59X00127	127	4.00		120.0		11.4	10.5	4.0	123.0		4.15	6.0
R1G59X00128	128	4.00		120.0		11.5	10.6	4.0	124.0		4.15	6.0
R1G59X00130	130	4.00		123.0		11.6	10.7	4.0	126.0		4.15	6.0
R1G59X00132	132	4.00		125.0		11.7	10.8	4.0	128.0		4.15	6.0
R1G59X00135	135	4.00		128.0		11.8	11.0	4.0	131.0		4.15	6.0
R1G59X00137	137	4.00		130.0		11.9	11.0	4.0	133.0		4.15	6.0
R1G59X00138	138	4.00		130.0		11.9	11.1	4.0	134.0		4.15	6.0
R1G59X00140	140	4.00		133.0		12.0	11.2	4.0	136.0		4.15	6.0
R1G59X00142	142	4.00		135.0		12.1	11.3	4.0	138.0		4.15	6.0
R1G59X00145	145	4.00		138.0		12.2	11.5	4.0	141.0		4.15	6.0
R1G59X00150	150	4.00		142.0		13.0	11.8	4.0	145.0		4.15	6.0
R1G59X00155	155	4.00	+0.00	146.0	+0.63	13.0	12.0	4.0	150.0	+0.00	4.15	7.5
R1G59X00160	160	4.00	-0.10	151.0	-1.50	13.3	12.2	4.0	155.0	-0.63	4.15	7.5
R1G59X00165	165	4.00		155.5		13.5	12.5	4.0	160.0		4.15	7.5
R1G59X00170	170	4.00		160.5		13.5	12.9	4.0	165.0		4.15	7.5
R1G59X00175	175	4.00		165.5		13.5	12.9	4.0	170.0		4.15	7.5
R1G59X00180	180	4.00		170.5		14.2	13.5	4.0	175.0		4.15	7.5
R1G59X00185	185	4.00		175.5		14.2	13.5	4.0	180.0		4.15	7.5
R1G59X00190	190	4.00		180.5		14.2	14.0	4.0	185.0		4.15	7.5
R1G59X00195	195	4.00		185.5		14.2	14.0	4.0	190.0		4.15	7.5
R1G59X00200	200	4.00		190.5		14.2	14.0	4.0	195.0		4.15	7.5
R1G59X00210	210	5.00		198.0		14.2	14.0	4.0	204.0		5.15	9.0
R1G59X00215	215	5.00		203.0		14.2	14.0	4.0	209.0		5.15	9.0
R1G59X00220	220	5.00		208.0		14.2	14.0	4.0	214.0		5.15	9.0
R1G59X00230	230	5.00		218.0		14.2	14.0	4.0	224.0		5.15	9.0
R1G59X00240	240	5.00		228.0	+0.72	14.2	14.0	4.0	234.0	-1.70	5.15	9.0
R1G59X00250	250	5.00		238.0		14.2	14.0	4.0	244.0		5.15	9.0
R1G59X00255	255	5.00		240.0		16.2	16.0	5.0	247.0		5.15	12.0
R1G59X00260	260	5.00	+0.00	245.0		16.2	16.0	5.0	252.0	+0.00	5.15	12.0
R1G59X00270	270	5.00	-0.12	255.0		16.2	16.0	5.0	262.0	-0.72	5.15	12.0
R1G59X00280	280	5.00		265.0		16.2	16.0	5.0	272.0		5.15	12.0
R1G59X00290	290	5.00		275.0	+0.81	16.2	16.0	5.0	282.0	-2.00	5.15	12.0
R1G59X00300	300	5.00		285.0		16.2	16.0	5.0	292.0		5.15	12.0

Sizes in BLUE are non-preferred. Availability is limited and MOQ is applied. *Data is strictly informative*

Note: All Austenitic Stainless-Steel Fasteners may exhibit some Magnetic Properties due to the Manufacturing Process.

Refer: ISO 3506-2 Annex F