



GST NO.: 29AHZPU5620Q1ZZ

An ISO 9001:2015 Certified Company

# ROYAL INDUSTRIAL SUPPLIERS

QUALITY FASTENERS SPECIALIST



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www.royalfastenersindia.com

## TECHNICAL DATA SHEET

### EXTERNAL CIRCLIPS



MATERIAL- STAINLESS STEEL

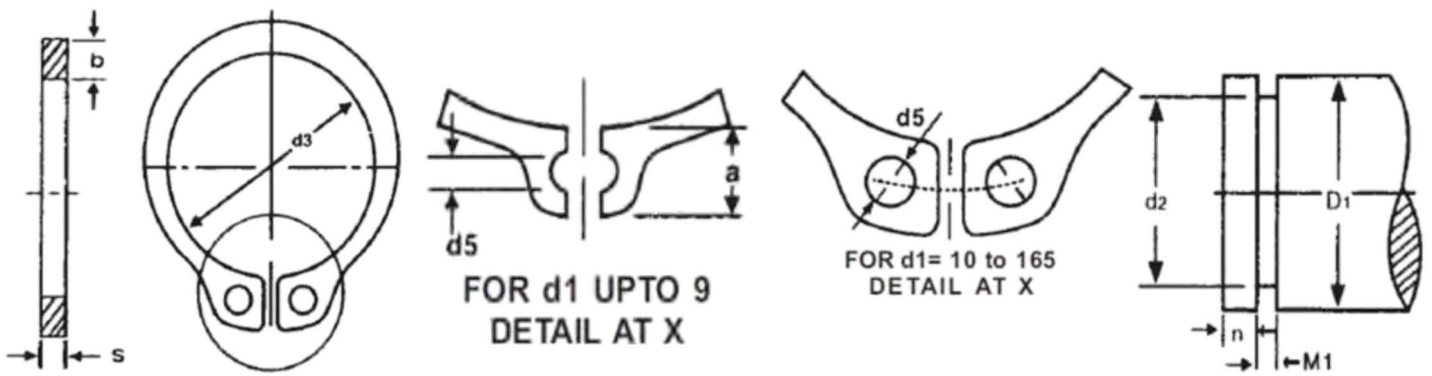
GRADE-SS316 (A4)

AS PER-DIN-471

CATALOGUE NO. R6G59X

### 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.



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

All Dimensions in mm

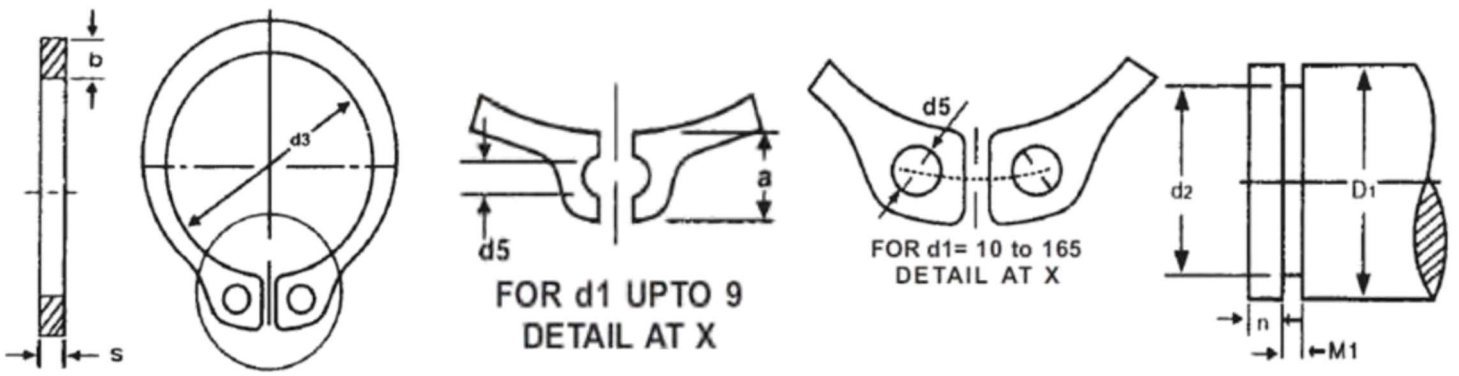
Part Number	Circlip Dimensions						Groove Dimensions					
	Shaft D1	s	Tol	d3	Tol	a	b	d5	d2	Tol	M1	n
R6G59X03000	3	0.40	+0.00	2.7	-0.15	1.9	0.8	1.0	2.8	+0.00	0.5	0.3
R6G59X04000	4	0.40		3.7		2.2	0.9	1.0	3.8		0.5	0.3
R6G59X05000	5	0.60		4.7		2.5	1.1	1.0	4.8		0.7	0.3
R6G59X06000	6	0.70	-0.05	5.6	+0.09	2.7	1.3	1.2	5.7	+0.00	0.8	0.5
R6G59X07000	7	0.80		6.5		3.1	1.4	1.2	6.7		0.9	0.5
R6G59X08000	8	0.80	-0.06	7.4	-0.18	3.2	1.5	1.2	7.6	+0.00	0.9	0.6
R6G59X09000	9	1.00		8.4		3.3	1.7	1.2	8.6		1.1	0.6
R6G59X10000	10	1.00		9.3		3.3	1.8	1.5	9.6		1.1	0.6
R6G59X11000	11	1.00	+0.18	10.2	-0.36	3.3	1.8	1.5	10.5	+0.00	1.1	0.8
R6G59X12000	12	1.00		11.0		3.3	1.8	1.7	11.5		1.1	0.8
R6G59X13000	13	1.00		11.9		3.4	2.0	1.7	12.4		1.1	0.9
R6G59X14000	14	1.00		12.9		3.5	2.1	1.7	13.4		1.1	0.9
R6G59X15000	15	1.00		13.8		3.6	2.2	1.7	14.3		1.1	1.1
R6G59X16000	16	1.00		14.7		3.7	2.2	1.7	15.2		1.1	1.2
R6G59X17000	17	1.00		15.7		3.8	2.3	1.7	16.2		1.1	1.2
R6G59X18000	18	1.20		16.5		3.9	2.4	2.0	17.0		1.3	1.5
R6G59X19000	19	1.20		17.5		3.9	2.5	2.0	18.0		1.3	1.5
R6G59X20000	20	1.20		18.5		4.0	2.6	2.0	19.0		1.3	1.5
R6G59X21000	21	1.20	19.5	4.1	2.7	2.0	20.0	1.3	1.5			
R6G59X22000	22	1.20	20.5	4.2	2.8	2.0	21.0	1.3	1.5			
R6G59X23000	23	1.20	21.5	4.3	2.9	2.0	22.0	1.3	1.5			
R6G59X24000	24	1.20	22.5	4.4	3.0	2.0	22.9	1.3	1.7			
R6G59X25000	25	1.20	23.5	4.4	3.0	2.0	23.9	1.3	1.7			
R6G59X26000	26	1.20	24.2	4.5	3.1	2.0	24.9	1.3	1.7			
R6G59X27000	27	1.20	24.9	4.6	3.1	2.0	25.6	1.3	2.1			
R6G59X28000	28	1.50	25.9	4.7	3.2	2.0	26.6	1.6	2.1			
R6G59X29000	29	1.50	26.9	4.8	3.4	2.0	27.6	1.6	2.1			
R6G59X30000	30	1.50	27.9	5.0	3.5	2.0	28.6	1.6	2.1			
R6G59X31000	31	1.50	28.6	5.0	3.5	2.5	29.3	1.6	2.6			
R6G59X32000	32	1.50	29.6	5.2	3.6	2.5	30.3	1.6	2.6			
R6G59X33000	33	1.50	30.5	5.2	3.7	2.5	31.3	1.6	2.6			
R6G59X34000	34	1.50	31.5	5.4	3.8	2.5	32.3	1.6	2.6			
R6G59X35000	35	1.50	32.2	5.6	3.9	2.5	33.0	1.6	3.0			
R6G59X36000	36	1.75	33.2	5.6	4.0	2.5	34.0	1.85	3.0			
R6G59X37000	37	1.75	34.2	5.7	4.1	2.5	35.0	1.85	3.0			
R6G59X38000	38	1.75	35.2	5.8	4.2	2.5	36.0	1.85	3.0			
R6G59X39000	39	1.75	36.0	5.9	4.3	2.5	37.0	1.85	3.8			
R6G59X40000	40	1.75	36.5	6.0	4.4	2.5	37.5	1.85	3.8			
R6G59X41000	41	1.75	37.5	6.2	4.5	2.5	38.5	1.85	3.8			
R6G59X42000	42	1.75	38.5	6.5	4.5	2.5	39.5	1.85	3.8			
R6G59X44000	44	1.75	40.5	6.6	4.6	2.5	41.5	1.85	3.8			
R6G59X45000	45	1.75	41.5	6.7	4.7	2.5	42.5	1.85	3.8			
R6G59X46000	46	1.75	42.5	6.7	4.8	2.5	43.5	1.85	3.8			

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



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

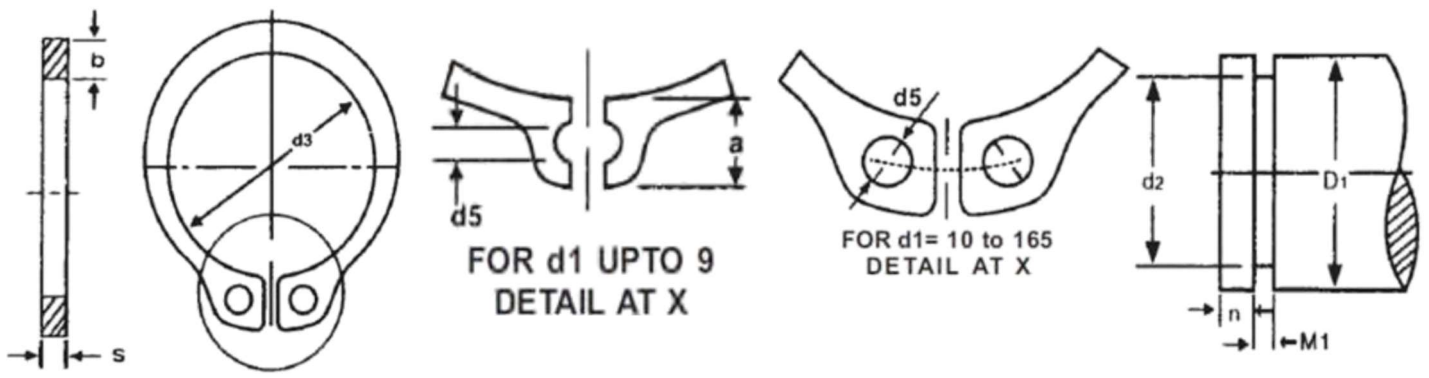
All Dimensions in mm

Part Number	Circlip Dimensions								Groove Dimensions			
	Shaft D1	s	Tol	d3	Tol	a	b	d5	d2	Tol	M1	n
R6G59X47000	47	1.75		53.5		6.8	4.9	2.5	44.5		1.85	3.8
R6G59X48000	48	1.75		44.5	+0.39	6.9	5.0	2.5	45.5		1.85	3.8
R6G59X50000	50	2.00		45.8	-0.90	6.9	5.1	2.5	47.0		2.15	4.5
R6G59X52000	52	2.00		47.8		7.0	5.2	2.5	49.0		2.15	4.5
R6G59X54000	54	2.00		49.8		7.1	5.3	2.5	51.0		2.15	4.5
R6G59X55000	55	2.00		50.8		7.2	5.4	2.5	52.0		2.15	4.5
R6G59X56000	56	2.00		51.8		7.3	5.5	2.5	53.0		2.15	4.5
R6G59X57000	57	2.00		52.8		7.3	5.5	2.5	54.0		2.15	4.5
R6G59X58000	58	2.00		53.8		7.3	5.6	2.5	55.0		2.15	4.5
R6G59X60000	60	2.00		55.8		7.4	5.8	2.5	57.0		2.15	4.5
R6G59X62000	62	2.00		57.8		7.5	6.0	2.5	59.0		2.15	4.5
R6G59X63000	63	2.00		58.8		7.6	6.2	2.5	60.0		2.15	4.5
R6G59X65000	65	2.50		60.8		7.8	6.3	3.0	62.0		2.65	4.5
R6G59X67000	67	2.50		62.8		7.9	6.4	3.0	64.0		2.65	4.5
R6G59X68000	68	2.50		63.5		8.0	6.5	3.0	65.0		2.65	4.5
R6G59X70000	70	2.50		65.5		8.1	6.6	3.0	67.0		2.65	4.5
R6G59X72000	72	2.50	+0.00 -0.07	67.5		8.2	6.8	3.0	69.0	+0.00	2.65	4.5
R6G59X75000	75	2.50		70.5	+0.46 -1.10	8.4	7.0	3.0	72.0	-0.30	2.65	4.5
R6G59X77000	77	2.50		72.5		8.5	7.2	3.0	74.0		2.65	4.5
R6G59X78000	78	2.50		73.5		8.6	7.3	3.0	75.0		2.65	4.5
R6G59X80000	80	2.50		74.5		8.6	7.4	3.0	76.5		2.65	5.3
R6G59X82000	82	2.50		76.5		8.7	7.6	3.0	78.5		2.65	5.3
R6G59X85000	85	3.00		79.5		8.7	7.8	3.5	81.5		3.15	5.3
R6G59X87000	87	3.00		81.5		8.8	7.9	3.5	83.5		3.15	5.3
R6G59X88000	88	3.00		82.5		8.8	8.0	3.5	84.5		3.15	5.3
R6G59X90000	90	3.00		84.5		8.8	8.2	3.5	86.5		3.15	5.3
R6G59X92000	92	3.00		86.5		9.0	8.4	3.5	88.5		3.15	5.3
R6G59X95000	95	3.00	+0.00 -0.08	89.5		9.4	8.6	3.5	91.5	+0.00	3.15	5.3
R6G59X97000	97	3.00		91.5		9.4	8.8	3.5	93.5	-0.35	3.15	5.3
R6G59X98000	98	3.00		92.5		9.5	9.0	3.5	94.5		3.15	5.3
R6G59X00100	100	3.00		94.5		9.6	9.0	3.5	96.5		3.15	5.3
R6G59X00102	102	4.00		95.0		9.7	9.2	3.5	98.0		4.15	6.0
R6G59X00105	105	4.00		98.0		9.9	9.3	3.5	101.0		4.15	6.0
R6G59X00107	107	4.00		100.0		10.0	9.5	3.5	103.0		4.15	6.0
R6G59X00108	108	4.00		100.0		10.0	9.5	3.5	104.0		4.15	6.0
R6G59X00110	110	4.00		103.0		10.1	9.6	3.5	106.0		4.15	6.0
R6G59X00112	112	4.00		105.0		10.3	9.7	3.5	108.0		4.15	6.0
R6G59X00115	115	4.00		107.0	+0.54 -1.30	10.6	9.8	3.5	111.0	+0.00	4.15	6.0
R6G59X00117	117	4.00		110.0		10.8	10.0	3.5	113.0	-0.54	4.15	6.0
R6G59X00118	118	4.00		110.0		10.9	10.1	3.5	114.0		4.15	6.0
R6G59X00120	120	4.00		113.0		11.0	10.2	3.5	116.0		4.15	6.0
R6G59X00122	122	4.00		115.0		11.2	10.3	4.0	118.0		4.15	6.0
R6G59X00125	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**

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Refer: ISO 3506-2 Annex F



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
R6G59X00127	127	4.00		120.0		11.4	10.5	4.0	123.0		4.15	6.0
R6G59X00128	128	4.00		120.0		11.5	10.6	4.0	124.0		4.15	6.0
R6G59X00130	130	4.00		123.0		11.6	10.7	4.0	126.0		4.15	6.0
R6G59X00132	132	4.00		125.0		11.7	10.8	4.0	128.0		4.15	6.0
R6G59X00135	135	4.00		128.0		11.8	11.0	4.0	131.0		4.15	6.0
R6G59X00137	137	4.00		130.0		11.9	11.0	4.0	133.0		4.15	6.0
R6G59X00138	138	4.00		130.0		11.9	11.1	4.0	134.0		4.15	6.0
R6G59X00140	140	4.00		133.0		12.0	11.2	4.0	136.0		4.15	6.0
R6G59X00142	142	4.00		135.0		12.1	11.3	4.0	138.0		4.15	6.0
R6G59X00145	145	4.00		138.0		12.2	11.5	4.0	141.0		4.15	6.0
R6G59X00150	150	4.00		142.0		13.0	11.8	4.0	145.0		4.15	6.0
R6G59X00155	155	4.00	+0.00	146.0	+0.63	13.0	12.0	4.0	150.0	+0.00	4.15	7.5
R6G59X00160	160	4.00	-0.10	151.0	-1.50	13.3	12.2	4.0	155.0	-0.63	4.15	7.5
R6G59X00165	165	4.00		155.5		13.5	12.5	4.0	160.0		4.15	7.5
R6G59X00170	170	4.00		160.5		13.5	12.9	4.0	165.0		4.15	7.5
R6G59X00175	175	4.00		165.5		13.5	12.9	4.0	170.0		4.15	7.5
R6G59X00180	180	4.00		170.5		14.2	13.5	4.0	175.0		4.15	7.5
R6G59X00185	185	4.00		175.5		14.2	13.5	4.0	180.0		4.15	7.5
R6G59X00190	190	4.00		180.5		14.2	14.0	4.0	185.0		4.15	7.5
R6G59X00195	195	4.00		185.5		14.2	14.0	4.0	190.0		4.15	7.5
R6G59X00200	200	4.00		190.5		14.2	14.0	4.0	195.0		4.15	7.5
R6G59X00210	210	5.00		198.0		14.2	14.0	4.0	204.0		5.15	9.0
R6G59X00215	215	5.00		203.0		14.2	14.0	4.0	209.0		5.15	9.0
R6G59X00220	220	5.00		208.0		14.2	14.0	4.0	214.0		5.15	9.0
R6G59X00230	230	5.00		218.0		14.2	14.0	4.0	224.0		5.15	9.0
R6G59X00240	240	5.00		228.0	+0.72	14.2	14.0	4.0	234.0	-1.70	5.15	9.0
R6G59X00250	250	5.00		238.0		14.2	14.0	4.0	244.0		5.15	9.0
R6G59X00255	255	5.00		240.0		16.2	16.0	5.0	247.0		5.15	12.0
R6G59X00260	260	5.00	+0.00	245.0		16.2	16.0	5.0	252.0	+0.00	5.15	12.0
R6G59X00270	270	5.00	-0.12	255.0		16.2	16.0	5.0	262.0	-0.72	5.15	12.0
R6G59X00280	280	5.00		265.0		16.2	16.0	5.0	272.0		5.15	12.0
R6G59X00290	290	5.00		275.0	+0.81	16.2	16.0	5.0	282.0	-2.00	5.15	12.0
R6G59X00300	300	5.00		285.0		16.2	16.0	5.0	292.0		5.15	12.0

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