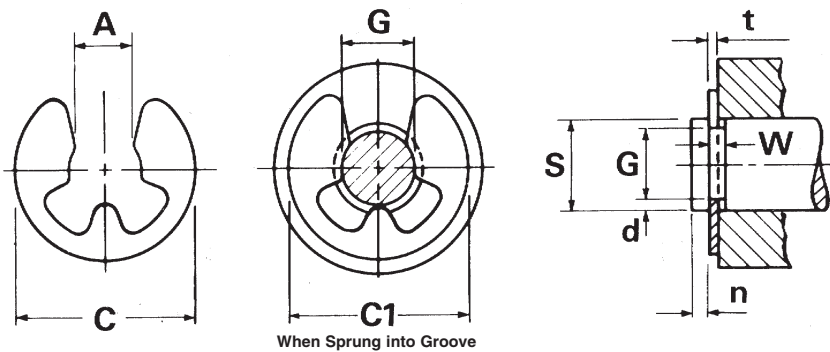


# Metric Circlips



When Sprung into Groove

1.2mm to 31.5mm

Standard Material  
Carbon Spring Steel

Standard Finish  
Phosphate and oil

DIN 6799



**STANDARD METRIC "E" EXTERNAL**

† Thrust load calculations see page 5

PART NUMBER	SHAFT		RING						GROOVE						Tc† (N)	Tg† (N)	ASSEMBLY TOOLS	
	DIAMETER		THICKNESS		DIAMETER				DIAMETER		WIDTH		n (min)	d Nom			APPLICATOR No.	DISPENSER No.
	S mm	Tol. mm	t mm	Tol. mm	C mm	C1 mm	A	Tol.	G mm	Tol. mm	W mm	Tol. mm						
D1500-8	1.20	±0.20	0.20		1.95	2.25	0.58		0.8	+0.00	0.24	+0.04	0.4	1.20	63	30	-	-
D1500-1.2	1.70	±0.30	0.30		2.90	3.25	1.01		1.2	-0.04	0.34	-0.00	0.6	0.25	203	53	28	DR 44
D1500-1.5	2.25	±0.25	0.40		3.85	4.25	1.28	±0.04	1.5	+0.00	0.44		0.8	0.38	358	105	21 A	DR 56
D1500-1.9	2.75		0.50		4.40	4.8	1.61		1.9	-0.06	0.54		1.0	0.43	546	145	22	DR 72
D1500-2.3	3.50	±0.50	0.60	±0.02	5.90	6.3	1.94		2.3		0.64		1.0	0.60	835	260	3 C	DR 87
D1500-3.2	4.50		0.60		6.80	7.3	2.70		3.2		0.64		1.0	0.65	1070	365	30	DR 123
D1500-4	6.00		0.70		8.80	9.3	3.34		4.0	+0.00	0.74	+0.05	1.2	1.00	1670	745	23 B	DR 154
D1500-5	7.00	±1.00	0.70		10.75	11.3	4.11	±0.048	5.0	-0.075	0.74	-0.00	1.2	1.00	1950	870	7 B	DR 194
D1500-6	8.00		0.70		11.75	12.3	5.26		6.0		0.74		1.2	1.00	2220	995	24	DR 232
D1500-7	9.50	±1.50	0.90		13.80	14.3	5.84		7.0		0.94		1.5	1.25	3400	1480	15	FR 273
D1500-8	10.50		1.00		15.60	16.3	6.52		8.0	+0.00	1.05		1.8	1.25	4170	1630	16 C	FR 311
D1500-9	12.00	±2.00	1.10		18.20	18.8	7.63	±0.058	9.0	-0.09	1.15		2.0	1.50	5250	2240	25	FR 350
D1500-10	13.00		1.20		19.65	20.4	8.32		10.0		1.25		2.0	1.50	6200	2430	26	FR 389
D1500-12	15.50	±2.50	1.30	±0.03	22.65	23.4	10.45		12.0	+0.00	1.35	+0.08	2.5	1.75	8010	3370	27	FR 468
D1500-15	20.00	±4.00	1.50		28.60	29.4	12.61	±0.07	15.0	-0.11	1.55	-0.00	3.0	2.50	11900	6220	20 B	FR 586
D1500-19	25.50	±5.50	1.75		36.70	37.6	15.92		19.0	+0.00	1.85		3.5	3.25	17700	10300	32 A	FR 743
D1500-24	31.50	±6.50	2.00		43.65	44.6	21.88	±0.084	24.0	-0.13	2.05		4.0	3.75	25000	14700	-	-