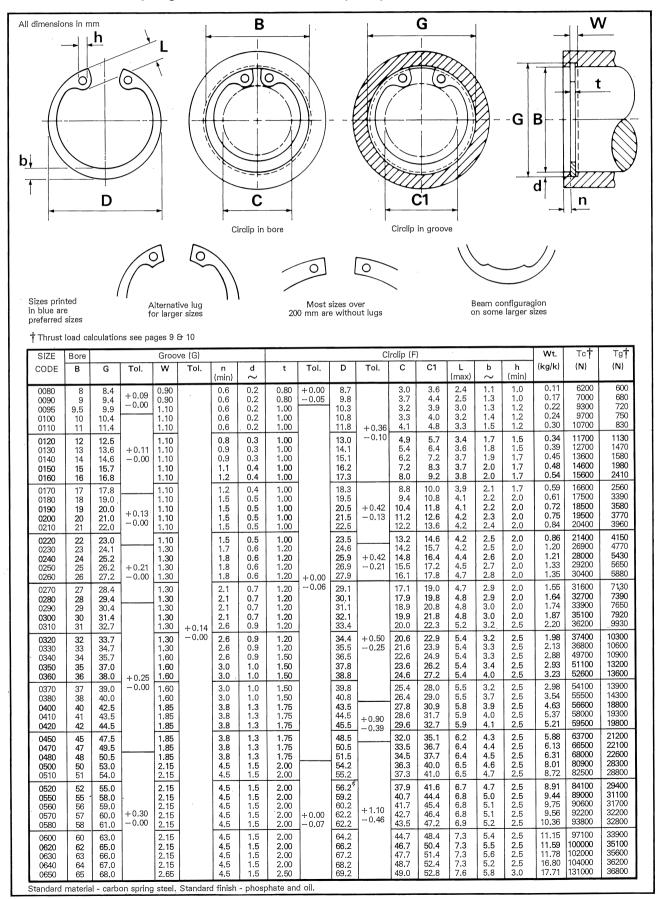
Standard Internal Circlips Metric Specifications Standard

material - carbon spring steel. Standard finish - phosphate & oil



Standard Internal Circlips Metric Specifications Standard

SIZE	Bore			ove (G)			Circlip (F)								Wt.	Tc†	тg†		
CODE	В	G	Tol.	w	Tol.	n (min)	d 2	t	Tol.	D	Tol.	С	C1	L (max)	b ~	h (min)	(kg/k)	(N)	(N)
0670 0680 0700 0720 0750	67 68 70 72 75	70.0 71.0 73.0 75.0 78.0	+0.30	2.65 2.65 2.65 2.65 2.65 2.65	+0.14	4.5 4.5 4.5 4.5 4.5 4.5	1.5 1.5 1.5 1.5 1.5	2.50 2.50 2.50 2.50 2.50	+ 0.00 0.07	72.5 72.5 74.5 76.5 79.5	+ 1.10 - 0.46		54.6 55.4 57.4 59.4 62.4	7.7 7.8 7.8 7.8 7.8 7.8	6.0 6.1 6.2 6.4 6.6	3.0 3.0 3.0 3.0 3.0 3.0	17.71 17.72 17.65 19.70 20.62	136000 138000 142000 146000 152000	37900 38500 39600 40700 42400
0760 0780 0800 0820 0850	76 78 80 82 85	79.0 81.0 83.5 85.5 88.5		2.65 2.65 2.65 2.65 3.15	-0.00	4.5 4.5 5.3 5.3 5.3	1.5 1.5 1.8 1.8 1.8	2.50 2.50 2.50 2.50 3.00		80.7 82.5 85.5 87.5 90.5		59.6 60.1 62.1 64.1 66.9	63.4 64.0 66.5 68.5 71.3	7.8 8.5 8.5 8.5 8.6	6.1 6.8 7.0 6.2 7.2	3.0 3.0 3.0 3.0 3.5	22.68 22.46 21.38 22.27 31.78	154000 158000 162000 166000 206000	43000 44100 52800 54100 56100
0880 0900 0920 0950 0980	88 90 92 95 98	91.5 93.5 95.5 98.5 101.5	+0.35	3.15 3.15 3.15 3.15 3.15 3.15		5.3 5.3 5.3 5.3 5.3 5.3	1.8 1.8 1.8 1.8 1.8	3.00 3.00 3.00 3.00 3.00	+0.00 -0.08	93.5 95.5 97.5 100.5 103.5	+ 1.30 - 0.54	69.9 71.9 73.7 76.5 79.0	74.3 76.3 78.1 80.9 83.5	8.6 8.6 8.7 8.8 9.0	7.4 7.6 7.8 8.1 8.3	3.5 3.5 3.5 3.5 3.5	32.94 33.35 35.72 38.88 42.16	214000 218000 223000 231000 238000	58100 59400 60700 62700 64700
1000 1020 1050 1080 1100	100 102 105 108 110	103.5 106.0 109.0 112.0 114.0	+0.54	3.15 4.15 4.15 4.15 4.15 4.15		5.3 6.0 6.0 6.0 6.0	1.8 2.0 2.0 2.0 2.0	3.00 4.00 4.00 4.00 4.00		105.5 108.0 112.0 115.0 117.0		80.6 82.0 85.0 88.0 88.2	85.1 87.0 90.0 93.0 93.2	9.2 9.5 9.5 9.5 10.4	8.4 8.5 8.7 8.9 9.0	3.5 3.5 3.5 3.5 3.5 3.5	43.41 55.20 59.20 62.60 71.75	243000 330000 340000 350000 356000	66000 76900 79200 81400 82900
1120 1150 1200 1250 1270	112 115 120 125 127	116.0 119.0 124.0 129.0 131.0		4.15 4.15 4.15 4.15 4.15 4.15		6.0 6.0 6.0 6.0 6.0	2.0 2.0 2.0 2.0 2.0 2.0	4.00 4.00 4.00 4.00 4.00		119.0 122.0 127.0 132.0 135.0		90.0 93.0 96.9 101.9 103.9	95.0 98.0 102.0 107.0 109.0	10.5 10.5 11.0 11.0 11.0	9.1 9.3 9.7 10.0 10.0	3.5 3.5 3.5 4.0 4.0	70.68 73.16 80.40 81.20 80.80	362000 372000 388000 405000 411000	84400 86700 90500 94300 95800
1300 1350 1400 1450 1500	130 135 140 145 150	134.0 139.0 144.0 149.0 155.0	+0.63	4.15 4.15 4.15 4.15 4.15 4.15	+0.18	6.0 6.0 6.0 6.0 7.5	2.0 2.0 2.0 2.0 2.5	4.00 4.00 4.00 4.00 4.00	+0.00 -0.10	137.0 142.0 147.0 152.0 158.0	+ 1.50 - 0.63	106.9 111.5 116.5 121.0 124.8	112.0 116.0 121.0 126.0 131.0	11.0 11.2 • 11.2 11.4 12.0	10.2 10.5 10.7 10.9 11.2	4.0 4.0 4.0 4.0 4.0	85.13 94.79 98.61 106.50 106.80	421000 437000 453000 469000 485000	98000 102000 106000 109000 141000
1550 1600 1650 1700 1750	155 160 165 170 175	160.0 165.0 170.0 175.0 180.0		4.15 4.15 4.15 4.15 4.15 4.15		7.5 7.5 7.5 7.5 7.5 7.5	2.5 2.5 2.5 2.5 2.5 2.5	4.00 4.00 4.00 4.00 4.00		164.0 169.0 174.5 179.5 184.5		129.8 1 32.7 137.7 141.6 146.6	136.0 139.0 144.0 148.0 153.0	12.0 13.0 13.0 13.5 13.5	11.4 11.6 11.8 12.0 12.0	4.0 4.0 4.0 4.0 4.0	128.00 130.50 132.00 149.50 158.50	502000 518000 534000 550000 566000	146000 151000 156000 160000 165000
1800 1850 1900 1950 2000	180 185 190 195 200	185.0 190.0 195.0 200.0 205.0	+ 0.72 - 0.00 + 0.81 - 0.00	4.15 4.15 4.15 4.15 4.15 4.15		7.5 7.5 7.5 7.5 7.5	2.5 2.5 2.5 2.5 2.5 2.5	4.00 4.00 4.00 4.00 4.00		189.5 194.5 199.5 204.5 209.5	+ 1.70 - 0.72	150.2 155.2 160.2 165.2 170.2	156.0 161.0 166.0 171.0 176.0	14.2 14.2 14.3 14.2 14.3	13.0 13.0 13.0 13.0 13.0 13.0	4.0 4.0 4.0 4.0 4.0	168.00 177.50 184.00 189.60 196.00	583000 599000 615000 631000 647000	170000 174000 179000 184000 188000
2100 2200 2300 2400 2500	210 220 230 240 250	216.0 226.0 236.0 246.0 256.0		5.15 5.15 5.15 5.15 5.15 5.15		9.0 9.0 9.0 9.0 9.0	3.0 3.0 3.0 3.0 3.0	5.00 5.00 5.00 5.00 5.00	+0.00 -0.12	222.0 232.0 242.0 252.0 262.0	+2.00 -0.81	180.2 190.2 200.2 210.2 220.2	187.0 197.0 207.0 217.0 227.0	14.2 14.2 14.2 14.2 14.2 14.2	14.0 14.0 14.0 14.0 14.0	4.0 4.0 4.0 4.0 4.0	263.00 276.00 291.00 304.00 318.50	739000 774000 809000 845000 880000	237000 249000 260000 271000 283000
2600 2700 2800 2900 3000	260 270 280 290 300	268.0 278.0 288.0 298.0 308.0		5.15 5.15 5.15 5.15 5.15 5.15		12.0 12.0 12.0 12.0 12.0 12.0	4.0 4.0 4.0 4.0 4.0	5.00 5.00 5.00 5.00 5.00		275.0 285.0 295.0 305.0 315.0		226.0 236.0 246.0 256.0 266.0	235.0 245.0 255.0 265.0 275.0	16.2 16.2 16.2 16.2 16.2	16.0 16.0 16.0 16.0 16.0	5.0 5.0 5.0 5.0 5.0	385.00 401.50 417.50 433.40 446.00	915000 950000 985000 1020000 1060000	392000 407000 422000 437000 452000
3100 3200 3300 3400 3500	310 320 330 340 350	320.0 330.0 340.0 350.0 360.0	+0.89	6.20 6.20 6.20 6.20 6.20	+0.22	15.0 15.0 15.0 15.0 15.0 15.0	5.0 5.0 5.0 5.0 5.0 5.0	6.00 6.00 6.00 6.00 6.00	+0.00	327.0 337.0 347.0 357.0 367.0	+2.50	267.8 277.8 287.8 297.8 307.8	279.0 289.0 299.0 309.0 319.0	20.2 20.2 20.2 20.2 20.2 20.2	20.0 20.0 20.0 20.0 20.0 20.0	6.0 6.0 6.0 6.0 6.0	658.50 682.00 705.00 729.00 752.50	1310000 1350000 1390000 1440000 1480000	584000 603000 622000 641000 660000
3600 3700 3800 3900 4000	360 370 380 390 400	370.0 380.0 390.0 400.0 410.0	-0.00	6.20 6.20 6.20 6.20 6.20 6.20	- 0.00 15. 15. 15. 15.	15.0 15.0 15.0 15.0 15.0 15.0	5.0 5.0 5.0 5.0 5.0 5.0	6.00 6.00 6.00 6.00 6.00		377.0 387.0 397.0 407.0 417.0		317.8 327.8 337.8 347.8 357.8	329.0 339.0 349.0 359.0 369.0	20.2 20.2 20.2 20.2 20.2 20.2	20.0 20.0 20.0 20.0 20.0 20.0	6.0 6.0 6.0 6.0 6.0	769.00 793.00 817.00 838.50 862.50	1520000 1560000 1610000 1650000 1690000	679000 697000 716000 735000 754000

material - carbon spring steel. Standard finish - phosphate & oil

Reference to table headings

- A = Free gap a = Radial depth B = Bore diameter b = Beam dimension C = Clearance on shaft or in bore C1= Clearance in groove D = Free diameter (working) D1= Free diameter (non functional) d = Groove depth E = End of play take-up
- F = Circlip details G = Groove diameter H = Height h = Hole diameter L = Lug depth n = Edge margin n1= Shaft or bore face to retained face r = radius S = Shaft diameter Tc= Thrust load for circlip Tg= Thrust load of groove
- W = Groove widthB.S. = British Standaw = Wing dimentiondec. = DecimalWt= Weightfrac. = FractionX = Outer groove wall tokg/k = kilograms perretained facethousandt = thicknesslb.f = Pounds force

Abbreviations used

B.S. = British Standars dec. = Decimal frac. = Fraction kg/k = kilograms per thousand lb.f = Pounds force lb/k = Pounds per thousand max. = Maximum N = Newton Nom. = Nominal Tol. = Tolerance