

# STANDARD EXTERNAL CIRCLIPS EUROPEAN SPECIFICATIONS

D1400

Incorporating DIN 471 & BS3673 Pt.4

All dimensions in mm

Sizes printed in blue are preferred sizes

† Thrust load calculations see pages 9 & 10

SIZE CODE	Shaft S	Groove (G)					Circlip (F)										Wt. (kg/k)	Tc† (N)	Tg† (N)
		G	Tol.	W	Tol.	n (min)	d ~	t	Tol.	D	Tol.	C	C1	L (max)	b ~	h (min)			
0030	3	2.8	+0.00 -0.04	0.50		0.3	0.10	0.40		2.7		7.0	6.6	1.9	0.8	1.0	0.02	1170	110
0040	4	3.8		0.50		0.3	0.10	0.40		3.7	+0.04	8.6	8.2	2.2	0.9	1.0	0.03	1600	150
0050	5	4.8	+0.00	0.70		0.3	0.10	0.60	+0.00	4.7	-0.15	10.3	9.8	2.5	1.1	1.0	0.08	2900	190
0060	6	5.7	-0.04B	0.80		0.5	0.15	0.70		5.6		11.7	11.1	2.7	1.3	1.2	0.13	4100	340
0070	7	6.7		0.90		0.5	0.15	0.80	-0.05	6.5		13.5	12.9	3.1	1.4	1.2	0.18	5500	400
0080	8	7.6	+0.00	0.90		0.6	0.20	0.80		7.4	+0.06	14.7	14.0	3.2	1.5	1.2	0.20	6200	600
0090	9	8.6	-0.06	1.10		0.6	0.20	1.00		8.4	-0.18	16.0	15.2	3.3	1.7	1.2	0.32	8800	680
0100	10	9.6		1.10		0.6	0.20	1.00		9.3		17.0	16.2	3.3	1.8	1.5	0.40	9700	750
0110	11	10.5		1.10		0.8	0.25	1.00		10.2		18.0	17.1	3.3	1.8	1.5	0.41	10700	1040
0120	12	11.5		1.10		0.8	0.25	1.00		11.0		19.0	18.1	3.3	1.8	1.7	0.45	11700	1130
0130	13	12.4		1.10		0.9	0.30	1.00		11.9	+0.10	20.2	19.2	3.4	2.0	1.7	0.52	12700	1470
0140	14	13.4		1.10		0.9	0.30	1.00		12.9	-0.36	21.4	20.4	3.5	2.1	1.7	0.56	13600	1580
0150	15	14.3	+0.00	1.10		1.1	0.35	1.00		13.8		22.6	21.5	3.6	2.2	1.7	0.62	14600	1980
0160	16	15.2	-0.11	1.10		1.2	0.40	1.00		14.7		23.8	22.6	3.7	2.2	1.7	0.69	15600	2410
0170	17	16.2		1.10		1.2	0.40	1.00		15.7		25.0	23.8	3.8	2.3	1.7	0.77	16600	2560
0180	18	17.0		1.30		1.5	0.50	1.20		16.5		26.2	24.8	3.9	2.4	2.0	0.99	21000	3390
0190	19	18.0		1.30		1.5	0.50	1.20		17.5		27.2	25.8	3.9	2.5	2.0	1.10	22200	3580
0200	20	19.0		1.30		1.5	0.50	1.20		18.5		28.4	27.0	4.0	2.6	2.0	1.18	23400	3770
0210	21	20.0	+0.00	1.30		1.5	0.50	1.20		19.5	+0.13	29.6	28.2	4.1	2.7	2.0	1.26	24500	3960
0220	22	21.0	-0.13	1.30		1.5	0.50	1.20		20.5	-0.42	30.8	29.4	4.2	2.8	2.0	1.39	25700	4150
0230	23	22.0		1.30		1.5	0.50	1.20		21.5		32.0	30.6	4.3	2.9	2.0	1.54	26900	4340
0240	24	22.9		1.30		1.7	0.55	1.20	+0.00	22.2	-0.06	33.2	31.7	4.4	3.0	2.0	1.52	28000	4980
0250	25	23.9		1.30		1.7	0.55	1.20		23.2		34.2	32.7	4.4	3.0	2.0	1.70	29200	5180
0260	26	24.9	+0.00	1.30		1.7	0.55	1.20		24.2		35.5	33.9	4.5	3.1	2.0	1.75	30400	5390
0270	27	25.6	-0.21	1.30	+0.14	2.1	0.70	1.20		24.9	+0.21	36.7	34.8	4.6	3.1	2.0	1.89	31600	7130
0280	28	26.6		1.60	-0.00	2.1	0.70	1.50		25.9	-0.42	37.9	36.0	4.7	3.2	2.0	2.47	40900	7390
0290	29	27.6		1.60		2.1	0.70	1.50		26.9		39.1	37.2	4.8	3.4	2.0	2.75	42400	7650
0300	30	28.6		1.60		2.1	0.70	1.50		27.9		40.5	38.6	5.0	3.5	2.0	2.93	43800	7920
0320	32	30.3		1.60		2.6	0.85	1.50		29.6		43.0	40.7	5.2	3.6	2.5	3.02	46700	10300
0330	33	31.3		1.60		2.6	0.85	1.50		30.5		44.0	41.7	5.2	3.7	2.5	3.30	48200	10600
0340	34	32.3		1.60		2.6	0.85	1.50		31.5	+0.25	45.4	43.1	5.4	3.8	2.5	3.72	49700	10900
0350	35	33.0		1.60		3.0	1.00	1.50		32.2	-0.50	46.8	44.2	5.6	3.9	2.5	3.78	51100	13200
0360	36	34.0		1.85		3.0	1.00	1.75		33.2		47.8	45.2	5.6	4.0	2.5	4.55	51400	13600
0380	38	36.0		1.85		3.0	1.00	1.75		35.2		50.2	47.6	5.8	4.2	2.5	5.08	54800	14300
0400	40	37.5	+0.00	1.85		3.8	1.25	1.75		36.5		52.6	49.5	6.0	5.0	2.5	5.54	56600	18800
0420	42	39.5	-0.25	1.85		3.8	1.25	1.75		38.5		55.7	52.5	6.5	5.0	2.5	5.99	59500	19800
0450	45	42.5		1.85		3.8	1.25	1.75		41.5		59.1	55.9	6.7	5.0	2.5	6.75	63700	21200
0460	46	43.5		1.85		3.8	1.25	1.75		42.5	+0.39	60.1	56.9	6.7	5.0	2.5	7.24	65100	21700
0470	47	44.5		1.85		3.8	1.25	1.75		43.5	-0.90	61.3	58.1	6.8	5.0	2.5	7.30	66500	22100
0480	48	45.5		1.85		3.8	1.25	1.75		44.5		62.5	59.3	6.9	5.0	2.5	7.51	67900	22600
0500	50	47.0		2.15		4.5	1.50	2.00		45.8		64.5	60.8	6.9	5.5	2.5	9.88	80900	28300
0520	52	49.0		2.15		4.5	1.50	2.00		47.8		66.7	63.0	7.0	5.5	2.5	9.53	84100	29400
0540	54	51.0		2.15		4.5	1.50	2.00		49.8		69.0	65.2	7.1	5.5	2.5	10.30	87400	30500
0550	55	52.0		2.15		4.5	1.50	2.00		50.8		70.2	66.4	7.2	5.5	2.5	10.41	89000	31100
0560	56	53.0	+0.00	2.15		4.5	1.50	2.00	+0.00	51.8	+0.46	71.6	67.6	7.3	5.5	2.5	10.50	90600	31700
0580	58	55.0	-0.30	2.15		4.5	1.50	2.00	-0.07	53.8	-1.10	73.6	69.6	7.3	5.6	2.5	12.47	93800	32800
0600	60	57.0		2.15		4.5	1.50	2.00		55.8		75.6	71.8	7.4	5.8	2.5	13.69	97100	33900
0620	62	59.0		2.15		4.5	1.50	2.00		57.8		77.8	74.0	7.5	6.0	2.5	12.36	100000	35100
0630	63	60.0		2.15		4.5	1.50	2.00		58.8		79.0	75.2	7.6	6.2	2.5	13.10	102000	35600
0650	65	62.0		2.65		4.5	1.50	2.50		60.8		81.4	77.6	7.8	6.3	3.0	20.44	131000	36800

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

# STANDARD EXTERNAL CIRCLIPS EUROPEAN SPECIFICATIONS

D1400 (Continued)

Incorporating DIN 471 & BS3673 Pt.4

SIZE CODE	Shaft			Groove (G)						Circlip (F)							Wt. (kg/k)	Tc† (N)	Tg† (N)
	S	G	Tol.	W	Tol.	n (min)	d ~	t	Tol.	D	Tol.	C	C1	L (max)	b ~	h (min)			
0670	67	64.0		2.65		4.5	1.50	2.50		62.5		83.6	79.8	7.9	6.4	3.0	20.43	135000	37900
0680	68	65.0		2.65		4.5	1.50	2.50		63.5		84.4	81.0	8.0	6.5	3.0	19.55	138000	38500
0700	70	67.0		2.65		4.5	1.50	2.50		65.5		87.0	83.2	8.1	6.6	3.0	22.13	142000	39600
0720	72	69.0	+0.00	2.65	+0.14	4.5	1.50	2.50	+0.00	67.5		89.2	85.4	8.2	6.8	3.0	21.60	146000	40700
0750	75	72.0	-0.30	2.65	-0.00	4.5	1.50	2.50	-0.07	70.5		92.7	88.8	8.4	7.0	3.0	24.65	152000	42400
0770	77	74.0		2.65		4.5	1.50	2.50		72.5		94.9	91.0	8.5	7.2	3.0	24.26	156000	43500
0780	78	75.0		2.65		4.5	1.50	2.50		73.5		96.1	92.2	8.6	7.3	3.0	28.10	158000	44100
0800	80	76.5		2.65		5.3	1.75	2.50		74.5		98.1	93.7	8.6	7.4	3.0	26.68	162000	52800
0820	82	78.5		2.65		5.3	1.75	2.50		76.5		100.3	95.9	8.7	7.6	3.0	28.35	166000	54100
0850	85	81.5		3.15		5.3	1.75	3.00		79.5		103.3	98.9	8.7	7.8	3.5	35.40	206000	56100
0880	88	84.5	+0.00	3.15		5.3	1.75	3.00		82.5		106.5	102.0	8.8	8.0	3.5	39.85	214000	58100
0900	90	86.5	-0.35	3.15		5.3	1.75	3.00	+0.00	84.5		108.5	104.0	8.8	8.2	3.5	38.89	218000	59400
0950	95	91.5		3.15		5.3	1.75	3.00	-0.08	89.5		114.8	111.0	9.4	8.6	3.5	42.39	231000	62700
0980	98	94.5		3.15		5.3	1.75	3.00		91.5		118.6	114.0	9.8	9.0	3.5	54.00	238000	64700
1000	100	96.5		3.15		5.3	1.75	3.00		94.5		120.2	116.0	9.6	9.0	3.5	48.86	243000	66000
1020	102	98.0		4.15		6.0	2.00	4.00		95.0	+0.54	122.4	118.0	9.7	9.2	3.5	68.73	330000	76900
1050	105	101.0		4.15		6.0	2.00	4.00		98.0	-1.30	126.2	122.0	10.1	9.3	3.5	73.16	340000	79200
1080	108	104.0	+0.00	4.15		6.0	2.00	4.00		100.0		129.0	124.0	10.0	9.5	3.5	83.45	349000	81400
1100	110	106.0	-0.54	4.15		6.0	2.00	4.00		103.0		131.2	127.0	10.1	9.6	3.5	75.24	356000	82900
1150	115	111.0		4.15		6.0	2.00	4.00		108.0		137.3	133.0	10.6	9.8	3.5	78.65	327000	86700
1200	120	116.0		4.15		6.0	2.00	4.00		113.0		143.1	138.0	11.0	10.2	3.5	85.58	388000	90500
1250	125	121.0		4.15		6.0	2.00	4.00		118.0		149.0	144.0	11.4	10.4	4.0	99.62	404000	94200
1300	130	126.0		4.15		6.0	2.00	4.00		123.0		154.4	150.0	11.6	10.7	4.0	98.10	421000	98000
1350	135	131.0		4.15		6.0	2.00	4.00		128.0		159.8	155.0	11.8	11.0	4.0	113.40	437000	102000
1400	140	136.0		4.15		6.0	2.00	4.00	+0.00	133.0		165.2	160.0	12.0	11.2	4.0	119.18	453000	106000
1450	145	141.0		4.15		6.0	2.00	4.00	-0.10	138.0		170.6	166.0	12.2	11.5	4.0	128.53	470000	109000
1500	150	145.0	+0.00	4.15	+0.18	7.5	2.50	4.00		142.0		177.3	171.0	13.0	11.8	4.0	132.80	485000	114000
1550	155	150.0	-0.63	4.15	-0.00	7.5	2.50	4.00		146.0		182.3	176.0	13.0	12.0	4.0	136.06	501000	148000
1600	160	155.0		4.15		7.5	2.50	4.00		151.0		188.0	182.0	13.3	12.2	4.0	137.50	518000	151000
1650	165	160.0		4.15		7.5	2.50	4.00		155.5		193.4	187.0	13.5	12.5	4.0	151.96	534000	156000
1700	170	165.0		4.15		7.5	2.50	4.00		160.5		198.4	192.0	13.5	12.9	4.0	169.00	550000	160000
1750	175	170.0		4.15		7.5	2.50	4.00		165.5		203.4	197.0	13.5	12.9	4.0	173.70	566000	165000
1800	180	175.0		4.15		7.5	2.50	4.00		170.5		210.0	204.0	14.2	13.5	4.0	188.00	582000	170000
1850	185	180.0		4.15		7.5	2.50	4.00		175.5		215.2	209.0	14.3	13.5	4.0	193.00	598000	174000
1900	190	185.0		4.15		7.5	2.50	4.00		180.5		220.0	214.0	14.2	14.0	4.0	203.00	615000	179000
1950	195	190.0		4.15		7.5	2.50	4.00		185.5		225.0	219.0	14.2	14.0	4.0	209.50	631000	184000
2000	200	195.0		4.15		7.5	2.50	4.00		190.5		230.0	224.0	14.2	14.0	4.0	214.00	647000	188000
2050	205	199.0	+0.00	5.15		9.0	3.00	5.00		193.0		235.0	228.0	14.2	14.0	4.0	278.00	721000	232000
2100	210	204.0	-0.72	5.15		9.0	3.00	5.00		198.0		240.0	233.0	14.2	14.0	4.0	285.00	739000	238000
2200	220	214.0		5.15		9.0	3.00	5.00		208.0		250.0	243.0	14.2	14.0	4.0	298.50	775000	249000
2300	230	224.0		5.15		9.0	3.00	5.00	+0.00	218.0		260.0	253.0	14.2	14.0	4.0	312.00	809000	260000
2400	240	234.0		5.15		9.0	3.00	5.00	-0.12	228.0		270.0	263.0	14.2	14.0	4.0	326.00	844000	271000
2500	250	244.0		5.15		9.0	3.00	5.00		238.0		280.0	272.0	14.2	14.0	4.0	340.00	880000	283000
2600	260	252.0		5.15		12.0	4.00	5.00		245.0		294.0	285.0	16.2	16.0	5.0	414.00	915000	392000
2700	270	262.0		5.15		12.0	4.00	5.00		255.0		304.0	295.0	16.2	16.0	5.0	430.50	950000	407000
2800	280	272.0	+0.00	5.15		12.0	4.00	5.00		265.0	+0.81	314.0	305.0	16.2	16.0	5.0	446.50	985000	422000
2900	290	282.0	-0.81	5.15		12.0	4.00	5.00		275.0	-2.00	324.0	315.0	16.2	16.0	5.0	463.00	1020000	437000
3000	300	292.0		5.15		12.0	4.00	5.00		285.0		334.0	325.0	16.2	16.0	5.0	479.00	1056000	452000
3100	310	300.0		6.20		15.0	5.00	6.00		293.0		352.2	341.0	20.2	20.0	6.0	710.50	1309000	584000
3200	320	310.0		6.20		15.0	5.00	6.00		303.0		362.2	351.0	20.2	20.0	6.0	734.00	1351000	603000
3300	330	320.0		6.20		15.0	5.00	6.00		313.0		372.2	361.0	20.2	20.0	6.0	757.00	1393000	622000
3400	340	330.0		6.20		15.0	5.00	6.00		323.0		382.2	371.0	20.2	20.0	6.0	780.00	1436000	641000
3500	350	340.0		6.20	+0.22	15.0	5.00	6.00	+0.00	333.0	+1.00	392.2	381.0	20.2	20.0	6.0	805.00	1478000	660000
3600	360	350.0	+0.00	6.20	-0.00	15.0	5.00	6.00	-0.18	343.0	-2.50	402.2	391.0	20.2	20.0	6.0	827.00	1520000	679000
3700	370	360.0	-0.89	6.20		15.0	5.00	6.00		353.0		412.2	401.0	20.2	20.0	6.0	850.00	1562000	697000
3800	380	370.0		6.20		15.0	5.00	6.00		363.0		422.2	411.0	20.2	20.0	6.0	873.00	1604000	716000
3900	390	380.0		6.20		15.0	5.00	6.00		373.0		432.2	421.0	20.2	20.0	6.0	896.00	1646000	735000
4000	400	390.0		6.20		15.0	5.00	6.00		383.0		442.2	431.0	20.2	20.0	6.0	919.00	1689000	754000

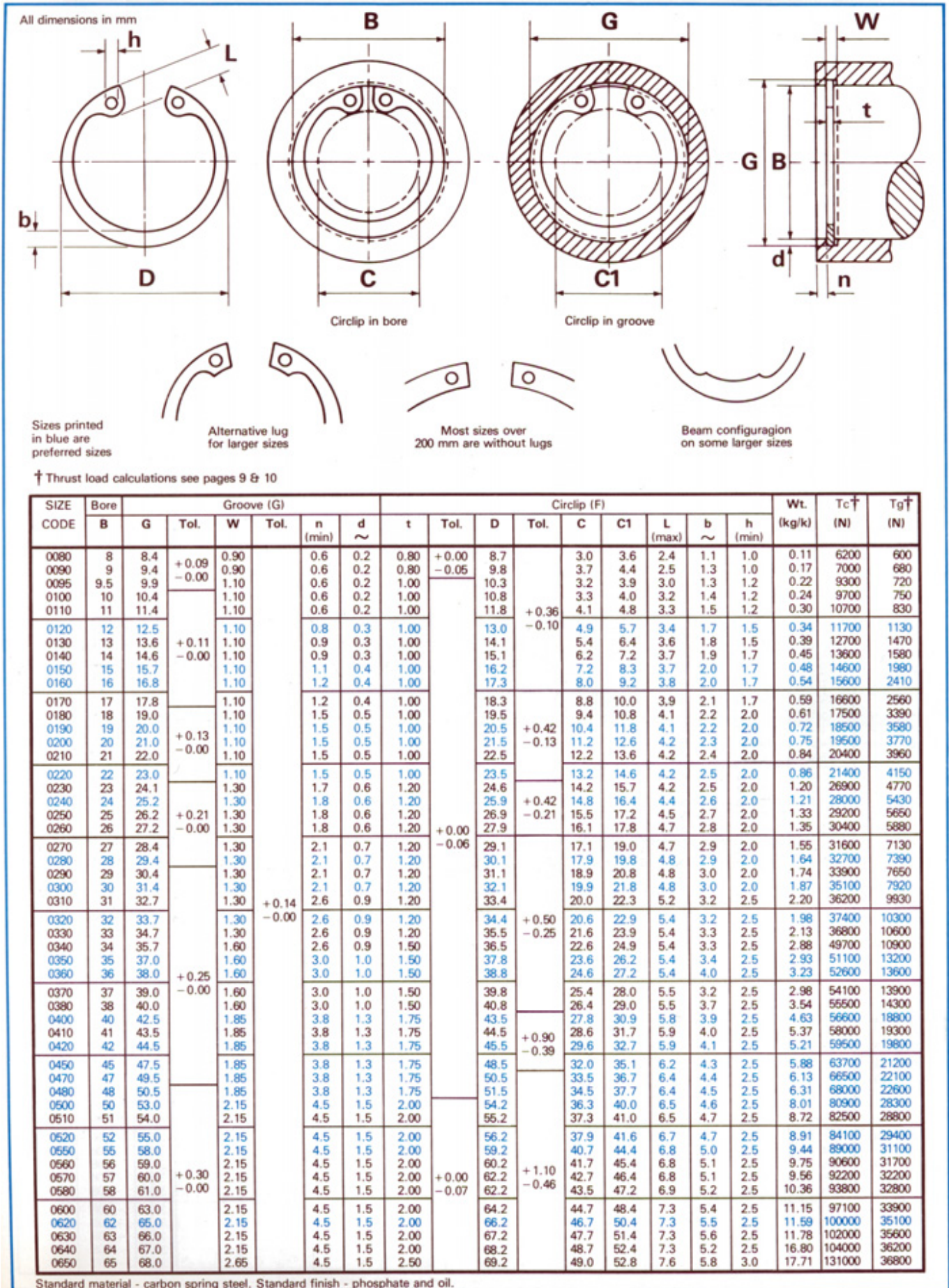
## Competitors Equivalents

Anderton	Seeger	Waldes/Salter	Anderton	Seeger	Waldes/Salter	Anderton	Seeger	Waldes/Salter
A0500	—	—	D1400	DIN471 (A)	7100*	N1500	—	5133
A0600	—	—	N1400	—	5100	A1500U, C&S	—	2025, 2021, 2026*
A0700	—	—	B1400	AZ	6100*	N1501	—	5131
A0900	—	—	M1408	AV	—	N1540	—	5144
A1000	—	—	N1408	—	5108	M1700	—	—
A1100								

# STANDARD INTERNAL CIRCLIPS - EUROPEAN SPECIFICATIONS

D1300

Incorporating DIN 472 & BS 3673 Pt.4



# STANDARD INTERNAL CIRCLIPS - EUROPEAN SPECIFICATIONS

D1300 (Continued)

Incorporating DIN 472 & BS 3673 Pt.4

SIZE CODE	Bore		Groove (G)					Circlip (F)										Wt. (kg/k)	Tc† (N)	Tg† (N)
	B	G	Tol.	W	Tol.	n (min)	d ~	t	Tol.	D	Tol.	C	C1	L (max)	b ~	h (min)				
0670	67	70.0		2.65		4.5	1.5	2.50		72.5		50.8	54.6	7.7	6.0	3.0	17.71	136000	37900	
0680	68	71.0		2.65		4.5	1.5	2.50		72.5		51.6	55.4	7.8	6.1	3.0	17.72	138000	38500	
0700	70	73.0		2.65		4.5	1.5	2.50		74.5	+1.10	53.6	57.4	7.8	6.2	3.0	17.65	142000	39600	
0720	72	75.0	+0.30	2.65		4.5	1.5	2.50	+0.00	76.5	-0.46	55.6	59.4	7.8	6.4	3.0	19.70	146000	40700	
0750	75	78.0	-0.00	2.65		4.5	1.5	2.50	-0.07	79.5		58.6	62.4	7.8	6.6	3.0	20.62	152000	42400	
0760	76	79.0		2.65	+0.14	4.5	1.5	2.50		80.7		59.6	63.4	7.8	6.1	3.0	22.68	154000	43000	
0780	78	81.0		2.65	-0.00	4.5	1.5	2.50		82.5		60.1	64.0	8.5	6.8	3.0	22.46	158000	44100	
0800	80	83.5		2.65		5.3	1.8	2.50		85.5		62.1	66.5	8.5	7.0	3.0	21.38	162000	52800	
0820	82	85.5		2.65		5.3	1.8	2.50		87.5		64.1	68.5	8.5	6.2	3.0	22.27	166000	54100	
0850	85	88.5		3.15		5.3	1.8	3.00		90.5		66.9	71.3	8.6	7.2	3.5	31.78	206000	56100	
0880	88	91.5	+0.35	3.15		5.3	1.8	3.00		93.5		69.9	74.3	8.6	7.4	3.5	32.94	214000	58100	
0900	90	93.5	-0.00	3.15		5.3	1.8	3.00	+0.00	95.5	+1.30	71.9	76.3	8.6	7.6	3.5	33.35	218000	59400	
0920	92	95.5		3.15		5.3	1.8	3.00	-0.08	97.5	-0.54	73.7	78.1	8.7	7.8	3.5	35.72	223000	60700	
0950	95	98.5		3.15		5.3	1.8	3.00		100.5		76.5	80.9	8.8	8.1	3.5	38.88	231000	62700	
0980	98	101.5		3.15		5.3	1.8	3.00		103.5		79.0	83.5	9.0	8.3	3.5	42.16	238000	64700	
1000	100	103.5		3.15		5.3	1.8	3.00		105.5		80.6	85.1	9.2	8.4	3.5	43.41	243000	66000	
1020	102	106.0		4.15		6.0	2.0	4.00		108.0		82.0	87.0	9.5	8.5	3.5	55.20	330000	76900	
1050	105	109.0		4.15		6.0	2.0	4.00		112.0		85.0	90.0	9.5	8.7	3.5	59.20	340000	79200	
1080	108	112.0	+0.54	4.15		6.0	2.0	4.00		115.0		88.0	93.0	9.5	8.9	3.5	62.60	350000	81400	
1100	110	114.0	-0.00	4.15		6.0	2.0	4.00		117.0		88.2	93.2	10.4	9.0	3.5	71.75	356000	82900	
1120	112	116.0		4.15		6.0	2.0	4.00		119.0		90.0	95.0	10.5	9.1	3.5	70.68	362000	84400	
1150	115	119.0		4.15		6.0	2.0	4.00		122.0		93.0	98.0	10.5	9.3	3.5	73.11	372000	86700	
1200	120	124.0		4.15		6.0	2.0	4.00		127.0		96.9	102.0	11.0	9.7	3.5	80.40	388000	90500	
1250	125	129.0		4.15		6.0	2.0	4.00		132.0		101.9	107.0	11.0	10.0	4.0	81.20	405000	94300	
1270	127	131.0		4.15		6.0	2.0	4.00		135.0		103.9	109.0	11.0	10.0	4.0	80.80	411000	95800	
1300	130	134.0		4.15		6.0	2.0	4.00		137.0		106.9	112.0	11.0	10.2	4.0	85.13	421000	98000	
1350	135	139.0		4.15		6.0	2.0	4.00	+0.00	142.0	+1.50	111.5	116.0	11.2	10.5	4.0	94.79	437000	102000	
1400	140	144.0		4.15		6.0	2.0	4.00	-0.10	147.0	-0.63	116.5	121.0	11.2	10.7	4.0	98.61	453000	106000	
1450	145	149.0	+0.63	4.15		6.0	2.0	4.00		152.0		121.0	126.0	11.4	10.9	4.0	106.50	469000	109000	
1500	150	155.0	-0.00	4.15	+0.18	7.5	2.5	4.00		158.0		124.8	131.0	12.0	11.2	4.0	106.80	485000	114100	
1550	155	160.0		4.15		7.5	2.5	4.00		164.0		129.8	136.0	12.0	11.4	4.0	128.00	502000	146000	
1600	160	165.0		4.15		7.5	2.5	4.00		169.0		132.7	139.0	13.0	11.6	4.0	130.50	518000	151000	
1650	165	170.0		4.15		7.5	2.5	4.00		174.5		137.7	144.0	13.0	11.8	4.0	132.00	534000	156000	
1700	170	175.0		4.15		7.5	2.5	4.00		179.5		141.6	148.0	13.5	12.0	4.0	149.50	550000	160000	
1750	175	180.0		4.15		7.5	2.5	4.00		184.5		146.6	153.0	13.5	12.0	4.0	158.50	566000	165000	
1800	180	185.0		4.15		7.5	2.5	4.00		189.5		150.2	156.0	14.2	13.0	4.0	168.00	583000	170000	
1850	185	190.0		4.15		7.5	2.5	4.00		194.5		155.2	161.0	14.2	13.0	4.0	177.50	599000	174000	
1900	190	195.0		4.15		7.5	2.5	4.00		199.5		160.2	166.0	14.3	13.0	4.0	184.00	615000	179000	
1950	195	200.0		4.15		7.5	2.5	4.00		204.5		165.2	171.0	14.2	13.0	4.0	189.60	631000	184000	
2000	200	205.0	+0.72	4.15	-0.00	7.5	2.5	4.00		209.5	-0.72	170.2	176.0	14.3	13.0	4.0	196.00	647000	188000	
2100	210	216.0		5.15		9.0	3.0	5.00		222.0		180.2	187.0	14.2	14.0	4.0	263.00	739000	237000	
2200	220	226.0		5.15		9.0	3.0	5.00		232.0		190.2	197.0	14.2	14.0	4.0	276.00	774000	249000	
2300	230	236.0		5.15		9.0	3.0	5.00		242.0		200.2	207.0	14.2	14.0	4.0	291.00	809000	260000	
2400	240	246.0		5.15		9.0	3.0	5.00		252.0		210.2	217.0	14.2	14.0	4.0	304.00	845000	271000	
2500	250	256.0		5.15		9.0	3.0	5.00	+0.00	262.0		220.2	227.0	14.2	14.0	4.0	318.50	880000	283000	
2600	260	268.0		5.15		12.0	4.0	5.00	-0.12	275.0	+2.00	226.0	235.0	16.2	16.0	5.0	385.00	915000	392000	
2700	270	278.0	+0.81	5.15		12.0	4.0	5.00		285.0	-0.81	236.0	245.0	16.2	16.0	5.0	401.50	950000	407000	
2800	280	288.0		5.15		12.0	4.0	5.00		295.0		246.0	255.0	16.2	16.0	5.0	417.50	985000	422000	
2900	290	298.0		5.15		12.0	4.0	5.00		305.0		256.0	265.0	16.2	16.0	5.0	433.40	1020000	437000	
3000	300	308.0	-0.00	5.15		12.0	4.0	5.00		315.0		266.0	275.0	16.2	16.0	5.0	446.00	1060000	452000	
3100	310	320.0		6.20		15.0	5.0	6.00		327.0		267.8	279.0	20.2	20.0	6.0	658.50	1310000	584000	
3200	320	330.0		6.20		15.0	5.0	6.00		337.0		277.8	289.0	20.2	20.0	6.0	682.00	1350000	603000	
3300	330	340.0		6.20		15.0	5.0	6.00		347.0		287.8	299.0	20.2	20.0	6.0	705.00	1390000	622000	
3400	340	350.0		6.20		15.0	5.0	6.00		357.0		297.8	309.0	20.2	20.0	6.0	729.00	1440000	641000	
3500	350	360.0	+0.89	6.20	+0.22	15.0	5.0	6.00	+0.00	367.0	+2.50	307.8	319.0	20.2	20.0	6.0	752.50	1480000	660000	
3600	360	370.0	-0.00	6.20	-0.00	15.0	5.0	6.00	-0.18	377.0	-1.00	317.8	329.0	20.2	20.0	6.0	769.00	1520000	679000	
3700	370	380.0		6.20		15.0	5.0	6.00		387.0		327.8	339.0	20.2	20.0	6.0	793.00	1560000	697000	
3800	380	390.0		6.20		15.0	5.0	6.00		397.0		337.8	349.0	20.2	20.0	6.0	817.00	1610000	716000	
3900	390	400.0		6.20		15.0	5.0	6.00		407.0		347.8	359.0	20.2	20.0	6.0	838.50	1650000	735000	
4000	400	410.0		6.20		15.0	5.0	6.00		417.0		357.8	369.0	20.2	20.0	6.0	862.50	1690000	754000	

### Reference to Table Headings

- A = Free gap
- a = Radial depth
- B = Bore diameter
- b = Beam dimension
- C = Clearance on shaft or in bore
- C<sub>1</sub> = Clearance in groove
- D = Free diameter (Working)
- D<sub>1</sub> = Free diameter (Non-functional)
- d = Groove depth
- E = End play take-up
- F = Circlip details
- G = Groove diameter
- H = Height
- h = Hole diameter
- L = Lug depth
- n = Edge margin
- n<sub>1</sub> = Shaft or bore face to retained face
- r = Radius
- S = Shaft diameter
- Tc = Thrust load for circlip
- Tg = Thrust load of groove
- t = Thickness
- W = Groove