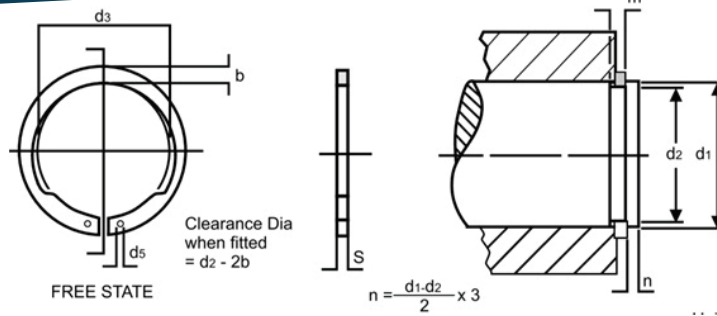


# Inverted External Circlip – J Type – DIN 5108, M1408



Nominal Dia. (d1)	Thickness (S)	Tolerance	Unst. Diam. (d3)	Tolerance	Beam	Lug Hole(d5) min	Groove Diameter (d2)	Toleran.	Groove Width (m)	Rad.Dep of Groove (t)
80	2.50	-0.07	74.50	+0.46-1.10	7.0	2.5	76.5	-0.30	2.65	1.75
80	2.50		74.50		7.0	2.5	76.5		2.65	1.75
82	2.50		76.50		7.0	2.5	78.5	-0.35	2.65	1.75
85	3.00	-0.08	79.50	7.4	3.0	81.5	3.15		1.75	
87	3.00		79.50	7.4	3.0	81.5	3.15		1.75	
90	3.00		84.50	+0.54-1.30	7.4	3.0	86.5		3.15	1.75
95	3.00		89.50		8.0	3.0	91.5		3.15	1.75
100	3.00		94.50		8.0	3.0	96.5	3.15	1.75	



Material: Carbon Spring Steel

Finish: Phosphating or as per requirements

Hardness: d1 - 8 to 48mm : 47 to 54HRC

d1 - 48 to 200mm : 44 to 51HRC

d1 - 200 to 300mm : 40 to 47HRC

Nominal Dia. (d1)	Thickness (S)	Tolerance	Unst. Diam. (d3)	Tolerance	Beam	Lug Hole (d5) min	Groove Diameter (d2)	Toleran.	Groove Width (m)	Rad. Dep of Groove (t)
12	1.00	- 0.06	11.00	+0.10 -0.36	2.1	1.3	11.5	-0.11	1.10	0.25
13	1.00		11.90		2.1	1.3	12.4		1.10	0.30
14	1.00		12.90		2.1	1.3	13.4		1.10	0.30
15	1.00		13.80		2.1	1.3	14.3		1.10	0.35
16	1.00		14.70		2.3	1.3	15.2		1.10	0.40
17	1.00		15.70		2.4	1.3	16.2		1.10	0.40
18	1.20		16.50		2.6	1.5	17.0		1.30	0.50
20	1.20	- 0.06	18.50	+0.13 -0.42	2.8	1.5	19.0	-0.15	1.30	0.50
21	1.20		19.35		2.8	1.5	20.0		1.30	0.50
22	1.20		20.50		3.0	1.5	21.0		1.30	0.50
23	1.20		21.50		3.1	1.5	22.0		1.30	0.50
24	1.20		22.20		3.2	1.5	22.9		1.30	0.55
25	1.20		23.20		3.4	1.5	23.9		1.30	0.55
26	1.50		24.20		3.5	1.5	24.9		1.30	0.55
28	1.50	- 0.06	25.90	+0.21 -0.42	3.8	1.5	26.6	-0.15	1.60	0.75
30	1.50		27.90		3.9	2.0	28.6		1.60	0.75
32	1.50		29.60		4.0	2.0	30.3		1.60	0.85
34	1.50		31.50		3.5	2.0	32.3		1.60	0.85
35	1.75		32.20		4.2	2.0	33.0		1.60	1.10
38	1.75		34.50		4.5	2.0	35.8		1.85	1.20
40	1.75		34.50		4.7	2.0	39.5		1.85	1.25
42	1.75	- 0.07	38.50	+0.39 -0.90	4.7	2.0	42.5	-0.25	1.85	1.25
45	1.75		41.50		4.7	2.0	44.5		1.85	1.25
47	1.75		43.50		5.0	2.0	45.5		1.85	1.25
48	2.00		44.50		5.2	2.0	47.0		1.85	1.25
50	2.00		45.80		5.2	2.5	52.0		2.15	1.50
55	2.00		50.80		5.8	2.5	55.0		2.15	1.50
58	2.00		53.80		5.8	2.5	57.0		2.15	1.50
60	2.50	- 0.07	55.80	+0.46 -1.10	5.8	2.5	62.0	-0.25	2.15	1.50
65	2.50		60.80		6.0	2.5	67.0		2.65	1.50
70	2.50		65.50		6.5	2.5	69.0		2.65	1.50
72	2.50		67.50		6.5	2.5	72.0		2.65	1.50
72	2.50		67.50		6.5	2.5	69.0		2.65	1.50
75	2.50		70.50		6.5	2.5	72.0		2.65	1.50