



Seguro DIN 471

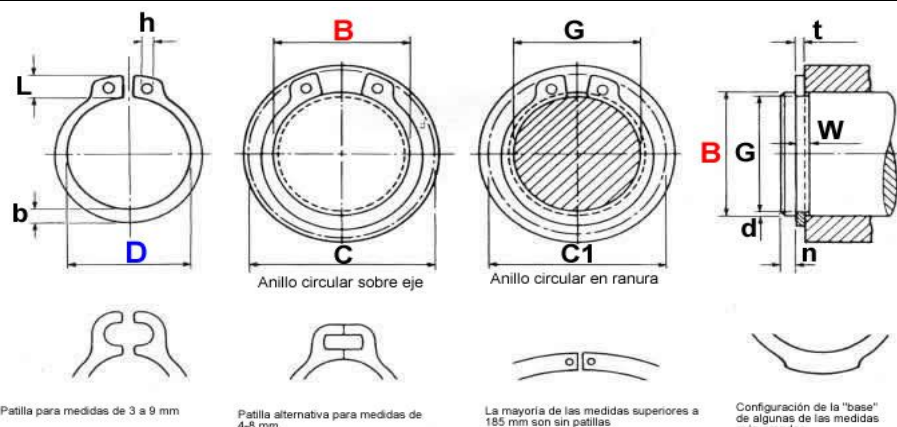
En acero para muelle al carbono. acabado estándar - fosfato o aceite

Los anillos Din 471 o seguros segers(seggers,seagers,seager,circlip). En norma ANDERTON **1400**, en norma WALDES TRUCK **5100**. Estos son utilizados para el montaje de piezas y su posterior fácil desmontaje solamente abriendo el anillo Los podemos encontrar en automóviles,máquinas agrícolas,viales,mineras,electrodomésticos y muchas otras posibilidades de mecanismos. Los seguros son fabricados en acero para resortes SAE 1070 cuya composición química es la siguiente:

Carbono máx. 0,75	Fósforo máx 0,04	Azufre máx 0,50
manganeso 0,60 al 0,90	con una dureza de 45 a 53 HRc.	

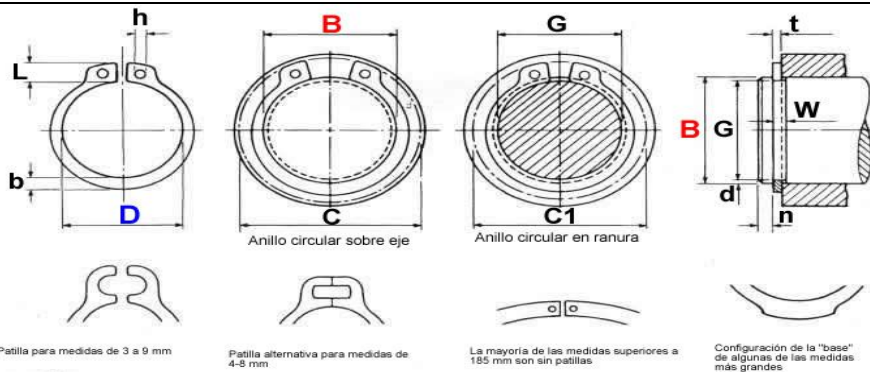
[ir a Productos](#)

DIN 471



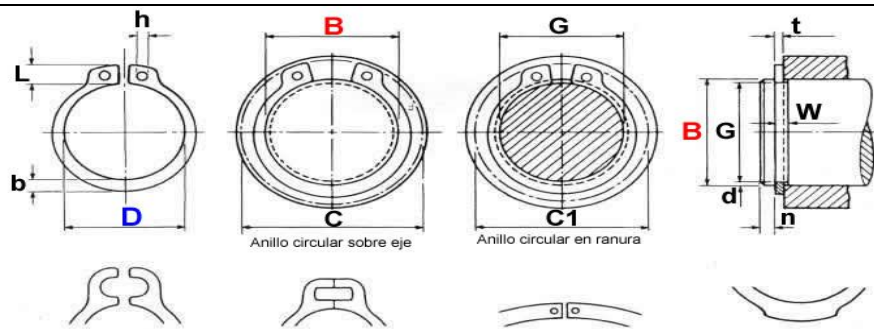
Eje	Ranura (G)							Anillo circular (F)								Wt.	Tc
B	G	Tol.	w	Tol.	n (mínimo)	d ~	t (espesor)	Tol.	D	Tol.	C	C1	L (máximo)	b ~	h (mínimo)	(kg/k)	(N)
3	2.8	+0.00 -0.04	0.50		0.3	0.10	0.40		2.7		7.0	6.6	1.9	0.8	1.0	0.02	1170
4	3.8		0.50		0.3	0.10	0.40		3.7	+0.04 -0.15	8.6	8.2	2.2	0.9	1.0	0.03	1600
5	4.8	+0.00 -0.048	0.70		0.3	0.10	0.60	+0.00 -0.05	4.7		10.3	9.8	2.5	1.1	1.0	0.08	2900
6	5.7		0.80		0.5	0.15	0.70		5.6		11.7	11.1	2.7	1.3	1.2	0.13	4100
7	6.7		0.90		0.5	0.15	0.80		6.5	+0.06 -0.18	13.5	12.9	3.1	1.4	1.2	0.18	5500
8	7.6	+0.00 -0.06	0.90		0.6	0.20	0.80		7.4		14.7	14.0	3.2	1.5	1.2	0.20	6200
9	8.6		1.10		0.6	0.20	1.00		8.4		16.0	15.2	3.3	1.7	1.2	0.32	8800
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
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
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
13	12.4		1.10		0.9	0.30	1.00		11.9		20.2	19.2	3.4	2.0	1.7	0.52	12700
14	13.4	+0.00 -0.11	1.10		0.9	0.30	1.00		12.9	+0.10 -0.36	21.4	20.4	3.5	2.1	1.7	0.56	13600
15	14.3		1.10		1.1	0.35	1.00		13.8		22.6	21.5	3.6	2.2	1.7	0.62	14600
16	15.2		1.10		1.2	0.40	1.00		14.7		23.8	22.6	3.7	2.2	1.7	0.69	15600
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
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
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
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
21	20.0	+0.00 -0.13	1.30	+0.14 -0.00	1.5	0.50	1.20		19.5	+0.13 -0.42	29.6	28.2	4.1	2.7	2.0	1.26	24500
22	21.0		1.30		1.5	0.50	1.20		20.5		30.8	29.4	4.2	2.8	2.0	1.39	25700
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
24	22.9		1.30		1.7	0.55	1.20	+0.00 -0.06	22.2		33.2	31.7	4.4	3.0	2.0	1.52	28000
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
26	24.9		1.30		1.7	0.55	1.20		24.2		35.5	33.9	4.5	3.1	2.0	1.75	30400
27	25.6		1.30		2.1	0.70	1.20		24.9		36.7	34.8	4.6	3.1	2.0	1.89	31600
28	26.6		1.60		2.1	0.70	1.50		25.9		37.9	36.0	4.7	3.2	2.0	2.47	40900
29	27.6		1.60		2.1	0.70	1.50		26.9	+0.21 -0.42	39.1	37.2	4.8	3.4	2.0	2.75	42400
30	28.6	+0.00 -0.21	1.60		2.1	0.70	1.50		27.9		40.5	38.6	5.0	3.5	2.0	2.93	43800
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
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
34	32.3		1.60		2.6	0.85	1.50		31.5		45.4	43.1	5.4	3.8	2.5	3.72	49700
35	33.0		1.60		3.0	1.00	1.50		32.2		46.8	44.2	5.6	3.9	2.5	3.78	51100
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
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
40	375		1.85		3.8	1.25	1.75		36.5	+0.39 -0.90	52.6	49.5	6.6	5.0	2.5	5.54	55600

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Eje	Ranura (G)							Anillo circular (F)								Wt.	Tc
B	G	Tol.	w	Tol.	n (mínimo)	d ~	t (espesor)	Tol.	D	Tol.	C	C1	L (máximo)	b ~	h (mínimo)	(kg/k)	(N)
42	39.5	+0.00 -0.21	1.85	+0.14 -0.00	3.8	1.25	1.75	+0.00 -0.07	38.5	+0.39 -0.90	55.7	52.5	6.5	5.0	2.5	5.99	59500
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
46	43.5		1.85		3.8	1.25	1.75		42.5		60.1	56.9	6.7	5.0	2.5	7.24	65100
47	44.5		1.85		3.8	1.25	1.75		43.5		61.3	58.1	6.8	5.0	2.5	7.30	66500
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
50	47.0	+0.00 -0.30	2.15		4.5	1.50	2.00	+0.00 -0.08	45.8	+0.46 -1.10	64.5	60.8	6.9	5.5	2.5	9.88	80300
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
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
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
56	53.0		2.15		4.5	1.50	2.00		51.8		71.6	67.6	7.3	5.5	2.5	10.50	90600
58	55.0	+0.00 -0.30	2.15	+0.18 -0.00	4.5	1.50	2.00	+0.00 -0.10	53.8	+0.54 -1.30	73.6	69.6	7.3	5.6	2.5	12.47	93800
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
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
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
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
67	64.0	+0.00 -0.30	2.65		4.5	1.50	2.50	+0.00 -0.08	62.5	+0.54 -1.30	83.6	79.8	7.9	6.4	3.0	20.43	135000
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
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
72	69.0		2.65		4.5	1.50	2.50		67.5		89.2	85.4	8.2	6.8	3.0	21.60	146000
75	72.0		2.65		4.5	1.50	2.50		70.5		92.7	88.8	8.4	7.0	3.0	24.65	152000
77	74.0	+0.00 -0.35	2.65	+0.18 -0.00	4.5	1.50	2.50	+0.00 -0.10	72.5	+0.54 -1.30	94.9	91.0	8.5	7.2	3.0	24.26	156000
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
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
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
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
88	84.5	+0.00 -0.54	3.15	+0.18 -0.00	5.3	1.75	3.00	+0.00 -0.10	82.5	+0.54 -1.30	106.5	102.0	8.8	8.0	3.5	39.85	214000
90	86.5		3.15		5.3	1.75	3.00		84.5		108.5	104.0	8.8	8.2	3.5	38.89	218000
95	91.5		3.15		5.3	1.75	3.00		89.5		114.8	111.0	9.4	8.6	3.5	42.39	231000
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
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
102	98.0	+0.00 -0.54	4.15	+0.18 -0.00	6.0	2.00	4.00	+0.00 -0.10	95.0	+0.54 -1.30	122.4	118.0	9.7	9.2	3.5	68.73	330000
105	101.0		4.15		6.0	2.00	4.00		98.0		126.2	122.0	10.1	9.3	3.5	73.16	340000
108	104.0		4.15		6.0	2.00	4.00		100.0		129.0	124.0	10.0	9.5	3.5	83.45	349000
110	106.0		4.15		6.0	2.00	4.00		103.0		131.2	127.0	10.1	9.6	3.5	75.24	356000

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Eje	Ranura (G)							Anillo circular (F)								Wt.	Tc
B	G	Tol.	w	Tol.	n (mínimo)	d ~	t (espesor)	Tol.	D	Tol.	C	C1	L (máximo)	b ~	h (mínimo)	(kg/k)	(N)
115	111.0	+0.00	4.15		6.0	2.00	4.00		108.0		137.3	133.0	10.6	9.8	3.5	78.65	327000
120	116.0	-0.54	4.15		6.0	2.00	4.00		113.0	+0.54 -1.30	143.1	138.0	11.0	10.2	3.5	85.58	388000
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
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
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
140	136.0		4.15		6.0	2.00	4.00		133.0		165.2	160.0	12.0	11.2	4.0	119.18	453000
145	141.0		4.15		6.0	2.00	4.00		138.0		170.6	166.0	12.2	11.5	4.0	128.53	470000
150	145.0		4.15		7.5	2.50	4.00		142.0		177.3	171.0	13.0	11.8	4.0	132.80	455000
155	150.0	+0.00 -0.63	4.15		7.5	2.50	4.00	+0.00	146.0	+0.63	182.3	176.0	13.0	12.0	4.0	136.06	501000
160	155.0		4.15		7.5	2.50	4.00	-0.10	151.0	-1.50	188.0	182.0	13.3	12.2	4.0	137.50	518000
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
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
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
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
185	180.0		4.15	+0.18 -0.00	7.5	2.50	4.00		175.5		215.2	209.0	14.3	13.5	4.0	193.00	598000
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
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
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
205	199.0		5.15		9.0	3.00	5.00		193.0		235.0	228.0	14.2	14.0	4.0	278.00	721000
210	204.0	+0.00 -0.72	5.15		9.0	3.00	5.00		198.0	+0.72 -1.70	240.0	233.0	14.2	14.0	4.0	285.00	739000
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
230	224.0		5.15		9.0	3.00	5.00		218.0		260.0	253.0	14.2	14.0	4.0	312.00	809000
240	234.0		5.15		9.0	3.00	5.00		228.0		270.0	263.0	14.2	14.0	4.0	326.00	844000
250	244.0		5.15		9.0	3.00	5.00	+0.00 -0.12	238.0		280.0	272.0	14.2	14.0	4.0	340.00	880000
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
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
280	272.0		5.15		12.0	4.00	5.00		265.0		314.0	305.0	16.2	16.0	5.0	446.50	985000
290	282.0	+0.00 -0.81	5.15		12.0	4.00	5.00		275.0	+0.81 -2.00	324.0	315.0	16.2	16.0	5.0	463.00	1020000
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
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
320	310.0		6.20		15.0	5.00	6.00		303.0		362.2	351.1	20.2	20.0	6.0	734.00	1351000
330	320.0		6.20	+0.22 -0.00	15.0	5.00	6.00		313.0		372.2	361.0	20.2	20.0	6.0	757.00	1393000
340	330.0		6.20		15.0	5.00	6.00	+0.00 -0.18	323.0	+1.00 -2.50	382.2	371.0	20.2	20.0	6.0	780.00	1436000
350	340.0	+0.00 -0.89	6.20		15.0	5.00	6.00		333.0		392.2	381.0	20.2	20.0	6.0	805.00	1478000
360	350.0		6.20		15.0	5.00	6.00		343.0		402.2	391.0	20.2	20.0	6.0	827.00	1520000
370	360.0		6.20		15.0	5.00	6.00		353.0		412.2	401.0	20.2	20.0	6.0	850.00	1562000