



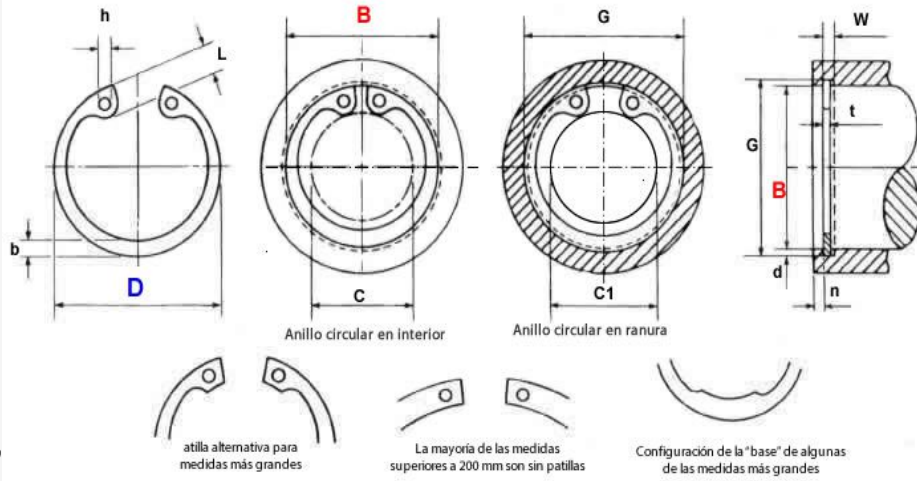
Seguro DIN 472

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

*Los anillos Din 472 o seguros
seggers(seggers, seagers, seager, circlip). En norma
ANDERTON 1300, en norma WALDES TRUCK 5000.
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:*

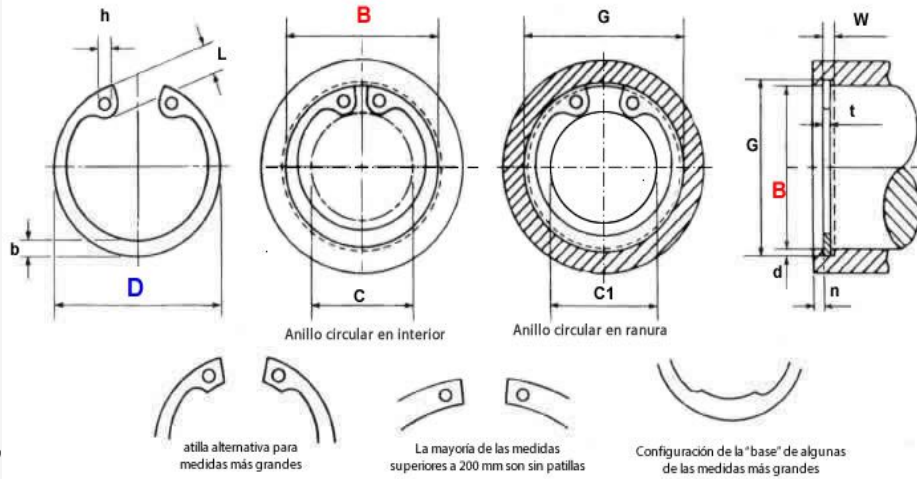
<i>Carbono máx. 0,75</i>	<i>Fósforo máx 0,04</i>	<i>Azufre máx 0,50</i>
<i>manganeso 0,60 al 0,90</i>	<i>con una dureza de 45 a 53 HRc.</i>	

Ir a Productos



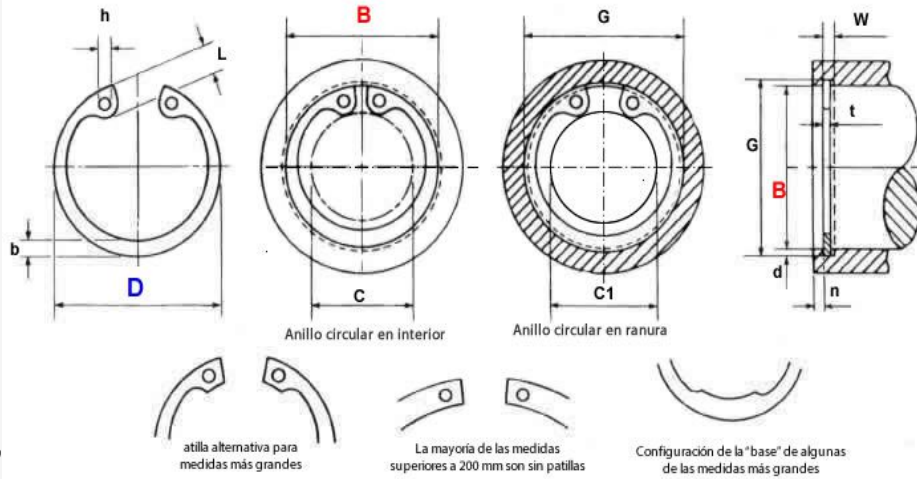
DIN 472

BORE CIRCLIP	ranura						Medida anillo										Wt (kg/K)	Tc (N)	Tg (N)
	B mm	G mm	Tol. mm	W mm	Tol. mm	n (min)	d ~	t mm	Tol. mm	D mm	Tol. mm	C	C1	L (max)	b ~	h (min)			
8	8.4	0.09 - 0.0	0.90	+0.14 - 0.0	0.6	0.2	0.80	0.00 - 0.06	8.7	+0.36 - 0.10	2.8	3.6	2.4	1.1	1.0	0.11	6200	620	
9	9.4	0.09 - 0.0	0.90	+0.14 - 0.0	0.6	0.2	0.80	0.00 - 0.06	9.8	+0.36 - 0.10	3.5	4.4	2.5	1.3	1.0	0.17	7000	690	
10	10.4	0.11 - 0.0	1.10	+0.14 - 0.0	0.6	0.2	1.00	0.00 - 0.06	10.8	+0.36 - 0.10	3.1	4.0	3.2	1.4	1.2	0.24	9700	770	
11	11.4	0.11 - 0.0	1.10	+0.14 - 0.0	0.6	0.2	1.00	0.00 - 0.06	11.8	+0.36 - 0.10	3.9	4.8	3.3	1.5	1.2	0.30	10700	840	
12	12.5	0.11 - 0.0	1.10	+0.14 - 0.0	0.8	0.3	1.00	0.00 - 0.06	13.0	+0.36 - 0.10	4.7	5.7	3.4	1.7	1.5	0.34	11700	1150	
13	13.6	0.11 - 0.0	1.10	+0.14 - 0.0	0.9	0.3	1.00	0.00 - 0.06	14.1	+0.36 - 0.10	5.3	6.4	3.6	1.8	1.5	0.39	12700	1500	
14	14.6	0.11 - 0.0	1.10	+0.14 - 0.0	0.9	0.3	1.00	0.00 - 0.06	15.1	+0.36 - 0.10	6.0	7.2	3.7	1.9	1.7	0.45	13600	1620	
15	15.7	0.11 - 0.0	1.10	+0.14 - 0.0	1.1	0.4	1.00	0.00 - 0.06	16.2	+0.36 - 0.10	7.0	8.3	3.7	2.0	1.7	0.48	14600	2030	
16	16.8	0.11 - 0.0	1.10	+0.14 - 0.0	1.2	0.4	1.00	0.00 - 0.06	17.3	+0.36 - 0.10	7.7	9.2	3.8	2.0	1.7	0.54	15600	2470	
17	17.8	0.11 - 0.0	1.10	+0.14 - 0.0	1.2	0.4	1.00	0.00 - 0.06	18.3	+0.42 - 0.13	8.4	10.0	3.9	2.1	1.7	0.59	16600	2620	
18	19.0	0.21 - 0.0	1.10	+0.14 - 0.0	1.5	0.5	1.00	0.00 - 0.06	19.5	+0.42 - 0.13	8.9	10.8	4.1	2.2	2.0	0.61	17500	3490	
19	20.0	0.21 - 0.0	1.10	+0.14 - 0.0	1.5	0.5	1.00	0.00 - 0.06	20.5	+0.42 - 0.13	9.8	11.8	4.1	2.2	2.0	0.72	18500	3680	
20	21.0	0.21 - 0.0	1.10	+0.14 - 0.0	1.5	0.5	1.00	0.00 - 0.06	21.5	+0.42 - 0.13	10.6	12.6	4.2	2.3	2.0	0.75	19500	3860	
21	22.0	0.21 - 0.0	1.10	+0.14 - 0.0	1.5	0.5	1.00	0.00 - 0.06	22.5	+0.42 - 0.13	11.6	13.6	4.2	2.4	2.0	0.84	20400	4050	
22	23.0	0.21 - 0.0	1.10	+0.14 - 0.0	1.5	0.5	1.00	0.00 - 0.06	23.5	+0.42 - 0.21	12.6	14.6	4.2	2.5	2.0	0.86	21400	4240	
23	24.1	0.21 - 0.0	1.30	+0.14 - 0.0	1.7	0.6	1.20	0.00 - 0.06	24.6	+0.42 - 0.21	13.6	15.7	4.2	2.5	2.0	1.20	26900	4880	
24	25.2	0.25 - 0.0	1.30	+0.14 - 0.0	1.8	0.6	1.20	0.00 - 0.06	25.9	+0.42 - 0.21	14.2	16.4	4.4	2.6	2.0	1.21	28000	5560	
25	26.2	0.25 - 0.0	1.30	+0.14 - 0.0	1.8	0.6	1.20	0.00 - 0.06	26.9	+0.42 - 0.21	15.0	17.2	4.5	2.7	2.0	1.33	29200	5790	
26	27.2	0.25 - 0.0	1.30	+0.14 - 0.0	1.8	0.6	1.20	0.00 - 0.06	27.9	+0.42 - 0.21	15.6	17.8	4.7	2.8	2.0	1.35	30400	6020	
27	28.4	0.25 - 0.0	1.30	+0.14 - 0.0	2.1	0.7	1.20	0.00 - 0.06	29.1	+0.50 - 0.25	16.6	19.0	4.7	2.9	2.0	1.55	31600	7310	
28	29.4	0.25 - 0.0	1.30	+0.14 - 0.0	2.1	0.7	1.20	0.00 - 0.06	30.1	+0.50 - 0.25	17.4	19.8	4.8	2.9	2.0	1.64	32700	7570	
29	30.4	0.30 - 0.0	1.30	+0.14 - 0.0	2.1	0.7	1.20	0.00 - 0.06	31.1	+0.50 - 0.25	18.4	20.8	4.8	3.0	2.0	1.74	33900	7840	
30	31.4	0.30 - 0.0	1.30	+0.14 - 0.0	2.1	0.7	1.20	0.00 - 0.06	32.1	+0.50 - 0.25	19.4	21.8	4.8	3.0	2.0	1.87	35100	8100	
31	32.7	0.30 - 0.0	1.30	+0.14 - 0.0	2.6	0.9	1.20	0.00 - 0.06	33.4	+0.50 - 0.25	19.6	22.3	5.2	3.2	2.5	2.20	36250	9900	
32	33.7	0.30 - 0.0	1.30	+0.14 - 0.0	2.6	0.9	1.20	0.00 - 0.06	34.4	+0.50 - 0.25	20.2	22.9	5.2	3.2	2.5	1.98	37400	10500	
33	34.7	0.30 - 0.0	1.30	+0.14 - 0.0	2.6	0.9	1.20	0.00 - 0.06	35.5	+0.50 - 0.25	21.2	23.9	5.4	3.3	2.5	2.13	38600	10900	
34	35.7	0.30 - 0.0	1.60	+0.14 - 0.0	2.6	0.9	1.50	0.00 - 0.06	36.5	+0.50 - 0.25	22.2	24.9	5.4	3.3	2.5	2.88	49700	11200	
35	37.0	0.30 - 0.0	1.60	+0.14 - 0.0	3.0	1.0	1.50	0.00 - 0.06	37.8	+0.50 - 0.25	23.2	26.2	5.4	3.4	2.5	2.93	51100	13600	
36	38.0	0.30 - 0.0	1.60	+0.14 - 0.0	3.0	1.0	1.50	0.00 - 0.06	38.8	+0.50 - 0.25	24.2	27.2	5.4	4.0	2.5	3.23	52600	14000	



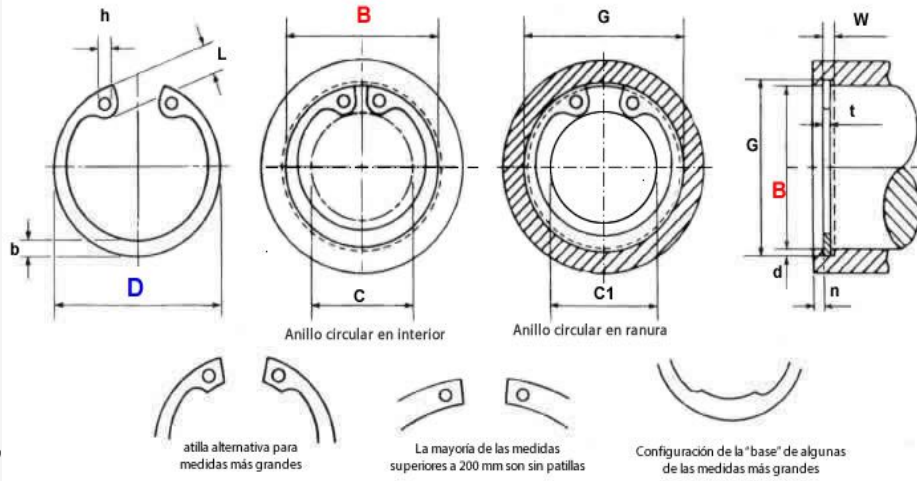
DIN 472

BORE CIRCLIP	ranura						Medida anillo										Wt (kg/K)	Tc (N)	Tg (N)
	B mm	G mm	Tol. mm	W mm	Tol. mm	n (min)	d ~	t mm	Tol. mm	D mm	Tol. mm	C	C1	L (max)	b ~	h (min)			
37	39.0	0.30 - 0.0	1.60	+0.14 - 0.0	3.0	1.0	1.50	0.00 - 0.06	39.8	+0.50 - 0.25	25.0	28.0	5.5	3.2	2.5	2.98	54100	14300	
38	40.0	0.30 - 0.0	1.60	+0.14 - 0.0	3.0	1.0	1.50	0.00 - 0.06	40.8	+0.50 - 0.25	26.0	29.0	5.5	3.7	2.5	3.54	55500	14700	
40	42.5	0.30 - 0.0	1.85	+0.14 - 0.0	3.8	1.3	1.75	0.00 - 0.06	43.5	+0.90 - 0.39	27.4	30.9	5.8	3.9	2.5	4.63	56600	19400	
41	43.5	0.30 - 0.0	1.85	+0.14 - 0.0	3.8	1.3	1.75	0.00 - 0.06	44.5	+0.90 - 0.39	28.2	31.7	5.9	4.0	2.5	5.37	58100	19900	
42	44.5	0.30 - 0.0	1.85	+0.14 - 0.0	3.8	1.3	1.75	0.00 - 0.06	45.5	+0.90 - 0.39	29.2	32.7	5.9	4.1	2.5	5.21	59500	20400	
45	47.5	0.30 - 0.0	1.85	+0.14 - 0.0	3.8	1.3	1.75	0.00 - 0.06	48.5	+1.10 - 0.46	31.6	35.1	6.2	4.3	2.5	5.88	63700	21800	
47	49.5	0.30 - 0.0	1.85	+0.14 - 0.0	3.8	1.3	1.75	0.00 - 0.06	50.5	+1.10 - 0.46	33.2	36.7	6.4	4.4	2.5	6.13	66600	22700	
48	50.5	0.30 - 0.0	1.85	+0.14 - 0.0	3.8	1.3	1.75	0.00 - 0.06	51.5	+1.10 - 0.46	34.6	37.7	6.4	4.5	2.5	6.31	68000	23200	
50	53.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	54.2	+1.10 - 0.46	36.0	40.0	6.5	4.6	2.5	8.01	80900	29100	
51	54.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	55.2	+1.10 - 0.46	37.0	41.0	6.5	4.7	2.5	8.72	82500	29700	
52	55.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	56.2	+1.10 - 0.46	37.6	41.6	6.7	4.7	2.5	8.91	84100	30300	
55	58.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	59.2	+1.10 - 0.46	40.4	44.4	6.8	5.0	2.5	9.44	89000	32000	
56	59.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	60.2	+1.10 - 0.46	41.4	45.4	6.8	5.1	2.5	9.75	90600	32500	
57	60.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	62.2	+1.10 - 0.46	42.4	46.4	6.8	5.1	2.5	10.36	92200	33100	
58	61.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	62.2	+1.10 - 0.46	43.2	47.2	6.9	5.2	2.5	9.56	93900	33700	
60	63.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	64.2	+1.10 - 0.46	44.4	48.4	7.3	5.4	2.5	11.15	97100	34800	
62	65.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	66.2	+1.10 - 0.46	46.4	50.4	7.3	5.5	2.5	11.59	100000	35900	
63	66.0	0.30 - 0.0	2.15	+0.14 - 0.0	4.5	1.5	2.00	0.00 - 0.07	67.2	+1.10 - 0.46	47.4	51.4	7.3	5.6	2.5	11.78	102000	36800	
65	68.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	69.2	+1.10 - 0.46	48.0	52.8	7.6	5.8	3.0	16.80	131000	37600	
67	70.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	72.0	+1.10 - 0.46	50.6	54.6	7.7	6.0	3.0	17.71	136000	38700	
68	71.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	72.2	+1.10 - 0.46	51.4	55.4	7.8	6.1	3.0	17.72	138000	39300	
70	73.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	74.5	+1.10 - 0.46	53.4	57.4	7.8	6.2	3.0	17.65	142000	40400	
72	75.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	76.5	+1.10 - 0.46	55.4	59.4	7.8	6.4	3.0	19.70	146000	41600	
75	78.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	79.5	+1.10 - 0.46	58.4	62.4	7.8	6.6	3.0	20.62	152000	43300	
76	79.0	0.30 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	80.7	+1.10 - 0.46	59.4	63.4	7.9	6.7	3.0	22.68	154000	43800	
78	81.0	0.35 - 0.0	2.65	+0.14 - 0.0	4.5	1.5	2.50	0.00 - 0.07	82.5	+1.3 - 0.54	60.0	64.0	8.5	6.8	3.0	22.46	158000	45000	
80	83.5	0.35 - 0.0	2.65	+0.14 - 0.0	5.3	1.8	2.50	0.00 - 0.07	85.5	+1.3 - 0.54	62.0	66.5	8.5	7.0	3.0	21.38	162000	53900	
82	85.5	0.35 - 0.0	2.65	+0.14 - 0.0	5.3	1.8	2.50	0.00 - 0.07	87.5	+1.3 - 0.54	64.0	68.5	8.5	7.0	3.0	22.27	166000	55300	
85	88.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	90.5	+1.3 - 0.54	66.8	71.3	8.6	7.2	3.5	31.78	206000	57200	



DIN 472

BORE CIRCLIP	ranura						Medida anillo										Wt (kg/K)	Tc (N)	Tg (N)
	B mm	G mm	Tol. mm	W mm	Tol. mm	n (min)	d ~	t mm	Tol. mm	D mm	Tol. mm	C	C1	L (max)	b ~	h (min)			
88	91.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	93.5	+1.3 - 0.54	69.8	74.3	8.6	7.4	3.5	32.94	214000	59200	
90	93.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	95.5	+1.3 - 0.54	71.8	76.3	8.6	7.6	3.5	33.35	218000	60500	
92	95.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	97.5	+1.3 - 0.54	73.6	78.1	8.7	7.8	3.5	35.72	223000	61900	
95	98.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	100.5	+1.3 - 0.54	76.4	80.9	8.8	8.1	3.5	38.88	231000	63800	
98	101.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	103.5	+1.3 - 0.54	79.0	83.5	9.0	8.3	3.5	42.16	238000	65800	
100	103.5	0.35 - 0.0	3.15	+0.18 - 0.0	5.3	1.8	3.00	0.00 - 0.08	105.5	+1.3 - 0.54	81.0	85.5	9.0	8.4	3.5	43.41	243000	67100	
102	106.0	0.54 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	108.0	+1.3 - 0.54	82.6	87.6	9.2	8.5	3.5	55.20	330000	78400	
105	109.0	0.54 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	112.0	+1.3 - 0.54	85.6	90.6	9.2	8.7	3.5	59.20	340000	80700	
108	112.0	0.54 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	115.0	+1.3 - 0.54	88.0	93.0	9.5	8.9	3.5	62.60	350000	83000	
110	114.0	0.54 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	117.0	+1.3 - 0.54	88.2	93.2	10.4	9.0	3.5	71.75	356000	84500	
112	116.0	0.54 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	119.0	+1.3 - 0.54	90.0	95.0	10.5	9.1	3.5	70.68	362000	86000	
115	119.0	0.54 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	122.0	+1.5 - 0.63	93.0	98.0	10.5	9.3	3.5	73.16	372000	88200	
120	124.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	127.0	+1.5 - 0.63	97.0	102.0	11.0	9.7	3.5	80.40	388000	92000	
125	129.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	132.0	+1.5 - 0.63	102.0	107.0	11.0	10.0	4.0	81.20	405000	95800	
127	131.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	135.0	+1.5 - 0.63	104.0	109.0	11.0	10.1	4.0	80.80	411000	97300	
130	134.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	137.0	+1.5 - 0.63	107.0	112.0	11.0	10.2	4.0	85.13	421000	99500	
135	139.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	142.0	+1.5 - 0.63	112.0	116.0	11.2	10.5	4.0	94.79	437000	103000	
140	144.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	147.0	+1.5 - 0.63	117.0	121.0	11.2	10.7	4.0	98.61	453000	107000	
145	149.0	0.63 - 0.0	4.15	+0.18 - 0.0	6.0	2.0	4.00	0.00 - 0.10	152.0	+1.5 - 0.63	122.0	126.0	11.4	10.9	4.0	106.50	496000	111000	
150	155.0	0.63 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	158.0	+1.5 - 0.63	125.0	131.0	12.0	11.2	4.0	106.80	485000	144000	
155	160.0	0.63 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	164.0	+1.5 - 0.63	130.0	136.0	12.0	11.4	4.0	128.00	502000	148000	
160	165.0	0.63 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	169.0	+1.5 - 0.63	133.0	139.0	13.0	11.6	4.0	130.50	518000	153000	
165	170.0	0.63 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	174.5	+1.5 - 0.63	138.0	144.0	13.0	11.8	4.0	132.00	534000	158000	
170	175.0	0.63 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	179.5	+1.5 - 0.63	145.0	150.0	13.5	12.2	4.0	149.50	550000	163000	
175	180.0	0.63 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	184.5	+1.7 - 0.72	149.0	155.0	13.5	12.7	4.0	158.50	566000	167000	
180	185.0	0.72 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	189.5	+1.7 - 0.72	153.0	158.0	14.2	13.2	4.0	168.00	583000	172000	
185	190.0	0.72 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	194.5	+1.7 - 0.72	157.0	162.0	14.2	13.7	4.0	177.50	599000	177000	
190	195.0	0.72 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	199.5	+1.7 - 0.72	162.0	167.0	14.3	13.8	4.0	184.00	615000	181000	
195	200.0	0.72 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	204.5	+1.7 - 0.72	167.0	172.0	14.2	13.8	4.0	189.60	631000	186000	



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BORE CIRCLIP	ranura						Medida anillo										Wt (kg/K)	Tc (N)	Tg (N)
	B mm	G mm	Tol. mm	W mm	Tol. mm	n (min)	d ~	t mm	Tol. mm	D mm	Tol. mm	C	C1	L (max)	b ~	h (min)			
200	205.0	0.72 - 0.0	4.15	+0.18 - 0.0	7.5	2.5	4.00	0.00 - 0.10	209.5	+1.7 - 0.72	171.0	177.0	14.3	14.0	4.0	196.00	647000	191000	
210	216.0	0.72 - 0.0	5.15	+0.18 - 0.0	9.0	3.0	5.00	0.00 - 0.12	222.0	+1.7 - 0.72	181.0	188.0	14.2	14.0	4.0	263.00	739000	241000	
220	226.0	0.72 - 0.0	5.15	+0.18 - 0.0	9.0	3.0	5.00	0.00 - 0.12	232.0	+1.7 - 0.72	191.0	198.0	14.2	14.0	4.0	276.00	774000	252000	
230	236.0	0.72 - 0.0	5.15	+0.18 - 0.0	9.0	3.0	5.00	0.00 - 0.12	242.0	+1.7 - 0.72	201.0	208.0	14.2	14.0	4.0	291.00	809000	264000	
240	246.0	0.72 - 0.0	5.15	+0.18 - 0.0	9.0	3.0	5.00	0.00 - 0.12	252.0	+2.0 - 0.81	211.0	218.0	14.2	14.0	4.0	304.00	845000	275000	
250	256.0	0.81 - 0.0	5.15	+0.18 - 0.0	9.0	3.0	5.00	0.00 - 0.12	262.0	+2.0 - 0.81	221.0	228.0	14.2	14.0	4.0	318.50	880000	286000	
260	268.0	0.81 - 0.0	5.15	+0.18 - 0.0	12.0	4.0	5.00	0.00 - 0.12	275.0	+2.0 - 0.81	227.0	236.0	16.2	16.0	5.0	385.00	915000	398000	
270	278.0	0.81 - 0.0	5.15	+0.18 - 0.0	12.0	4.0	5.00	0.00 - 0.12	285.0	+2.0 - 0.81	237.0	246.0	16.2	16.0	5.0	401.50	950000	413000	
280	288.0	0.81 - 0.0	5.15	+0.18 - 0.0	12.0	4.0	5.00	0.00 - 0.12	295.0	+2.0 - 0.81	247.0	256.0	16.2	16.0	5.0	417.50	985000	428000	
290	298.0	0.81 - 0.0	5.15	+0.18 - 0.0	12.0	4.0	5.00	0.00 - 0.12	305.0	+2.0 - 0.81	257.0	266.0	16.2	16.0	5.0	433.40	1020000	443000	
300	308.0	0.81 - 0.0	5.15	+0.18 - 0.0	12.0	4.0	5.00	0.00 - 0.12	315.0	+2.0 - 0.81	267.0	276.0	16.2	16.0	5.0	446.00	1060000	458000	
310	320.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	327.0	+2.5 - 1.0	271.0	282.0	20.2	20.0	6.0	658.50	1310000	594000	
320	330.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	337.0	+2.5 - 1.0	281.0	292.0	20.2	20.0	6.0	682.00	1350000	613000	
330	340.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	347.0	+2.5 - 1.0	291.0	302.0	20.2	20.0	6.0	705.00	1390000	632000	
340	350.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	357.0	+2.5 - 1.0	301.0	312.0	20.2	20.0	6.0	729.00	1440000	650000	
350	360.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	367.0	+2.5 - 1.0	311.0	322.0	20.2	20.0	6.0	752.50	1480000	669000	
360	370.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	377.0	+2.5 - 1.0	321.0	332.0	20.2	20.0	6.0	769.00	1520000	688000	
370	380.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	387.0	+2.5 - 1.0	331.0	342.0	20.2	20.0	6.0	793.00	1560000	707000	
380	390.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	397.0	+2.5 - 1.0	341.0	352.0	20.2	20.0	6.0	817.00	1690000	726000	
390	400.0	0.89 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	407.0	+2.5 - 1.0	351.0	362.0	20.2	20.0	6.0	838.50	1646000	745000	
400	410.0	1.00 - 0.0	6.20	+0.22 - 0.0	15.0	5.0	6.00	0.00 - 0.15	417.0	+2.5 - 1.0	361.0	372.0	20.2	20.0	6.0	862.50	1689000	764000	