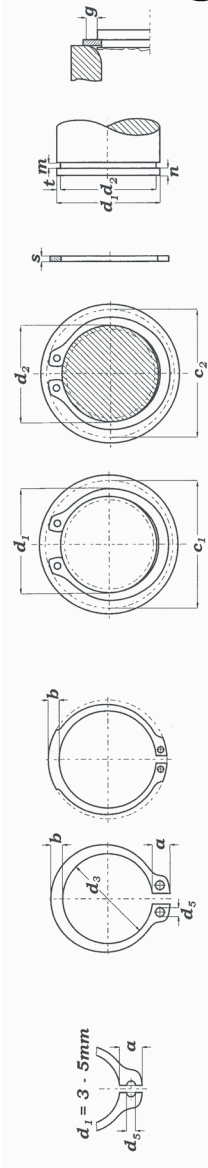


# PIERŚCIEŃNIE OSADCZE DIN 471

d <sub>1</sub>	DIN 471										D A N E											
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5 min.</sub>	C <sub>1</sub>	C <sub>2</sub>	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>det.</sub> x1000 (rpm)
3	0.40		2.7		1.9	0.8	1.0	7.0	6.6	0.017	2.8		0.50	0.10	0.3	0.1	0.47	0.5	0.27	0.9	2.06	360
4	0.40		3.7	+0.04	2.2	0.9	1.0	8.6	8.2	0.022	3.8	-0.04	0.50	0.10	0.3	0.2	0.50	0.5	0.30	1.2	1.93	211
5	0.60	-0.05	4.7	-0.15	2.5	1.1	1.0	10.3	9.8	0.066	4.8		0.70	0.10	0.3	0.2	1.00	0.5	0.80	1.5	7.38	154
6	0.70		5.6		2.7	1.3	1.2	11.7	11.1	0.084	5.7		0.80	0.15	0.5	0.4	1.45	0.5	0.90	2.8	10.40	114
7	0.80		6.5	+0.06	3.1	1.4	1.2	13.5	12.9	0.121	6.7		0.90	0.15	0.5	0.5	2.60	0.5	1.40	3.2	14.70	121
8	0.80		7.4	-0.18	3.2	1.5	1.2	14.7	14.0	0.158	7.6	-0.06	0.90	0.20	0.6	0.8	3.00	0.5	2.00	4.9	14.20	96
9	1.00		8.4		3.3	1.7	1.2	16.0	15.2	0.300	8.6		1.10	0.20	0.6	0.9	3.50	0.5	2.40	5.5	30.00	85
10	1.00		9.3		3.3	1.8	1.5	17.0	16.2	0.340	9.6		1.10	0.20	0.6	1.0	4.00	1.0	2.40	6.2	28.20	84
11	1.00		10.2		3.3	1.8	1.5	18.0	17.1	0.410	10.5		1.10	0.25	0.8	1.4	4.50	1.0	2.40	8.4	26.10	70
12	1.00		11.0		3.3	1.8	1.7	19.0	18.1	0.500	11.5		1.10	0.25	0.8	1.5	5.00	1.0	2.40	9.2	24.00	75
13	1.00		11.9		3.4	2.0	1.7	20.2	19.2	0.530	12.4		1.10	0.30	0.9	2.0	5.80	1.0	2.40	11.9	23.20	66
14	1.00		12.9	+0.10	3.5	2.1	1.7	21.4	20.4	0.640	13.4	-0.11	1.10	0.30	0.9	2.1	6.40	1.0	2.40	12.9	22.90	58
15	1.00		13.8	-0.36	3.6	2.2	1.7	22.6	21.5	0.670	14.3		1.10	0.35	1.1	2.6	6.90	1.0	2.40	16.1	21.60	50
16	1.00		14.7		3.7	2.2	1.7	23.8	22.6	0.700	15.2		1.10	0.40	1.2	3.2	7.40	1.0	2.40	19.6	21.00	45
17	1.00		15.7		3.8	2.3	1.7	25.0	23.8	0.820	16.2		1.10	0.40	1.2	3.4	8.00	1.0	2.40	20.8	21.60	41
18	1.20		16.5		3.9	2.4	2.0	26.2	24.8	1.110	17.0		1.30	0.50	1.5	4.5	17.00	1.5	3.75	27.5	37.10	39
19	1.20		17.5		3.9	2.5	2.0	27.2	25.8	1.220	18.0		1.30	0.50	1.5	4.8	17.00	1.5	3.80	29.1	36.40	35
20	1.20		18.5		4.0	2.6	2.0	28.4	27.0	1.300	19.0		1.30	0.50	1.5	5.0	17.10	1.5	3.85	30.6	36.30	32
21	1.20		19.5	+0.13	4.1	2.7	2.0	29.6	28.2	1.420	20.0	-0.13	1.30	0.50	1.5	5.3	16.80	1.5	3.75	32.2	35.40	29
22	1.20	-0.06	20.5	-0.42	4.2	2.8	2.0	30.8	29.4	1.500	21.0		1.30	0.50	1.5	5.6	16.90	1.5	3.80	33.8	35.40	27
23	1.20		21.5		4.3	2.9	2.0	32.0	30.6	1.630	22.0	-0.15	1.30	0.50	1.5	5.9	16.60	1.5	3.80	35.4	34.70	25
24	1.20		22.2		4.4	3.0	2.0	33.2	31.7	1.770	22.9		1.30	0.55	1.7	6.7	16.10	1.5	3.65	40.5	33.40	27
25	1.20		23.2		4.4	3.0	2.0	34.2	32.7	1.900	23.9		1.30	0.55	1.7	7.0	16.20	1.5	3.70	42.3	33.40	25
26	1.20		24.2		4.5	3.1	2.0	35.5	33.9	1.960	24.9		1.30	0.55	1.7	7.3	16.10	1.5	3.70	44.0	32.90	24
27	1.20		24.9		4.6	3.1	2.0	36.7	34.8	2.080	25.6	-0.21	1.30	0.70	2.1	9.6	16.40	1.5	3.80	57.8	33.40	22
28	1.50		25.9	+0.21	4.7	3.2	2.0	37.9	36.0	2.920	26.6		1.60	0.70	2.1	10.0	32.10	1.5	7.50	60.0	65.00	21
29	1.50		26.9	-0.42	4.8	3.4	2.0	39.1	37.2	3.200	27.6		1.60	0.70	2.1	10.3	31.80	1.5	7.45	62.0	64.00	20
30	1.50		27.9		5.0	3.5	2.0	40.5	38.6	3.320	28.6		1.60	0.70	2.1	10.7	32.10	1.5	7.65	64.0	64.20	19
31	1.50		28.6		5.1	3.5	2.5	41.7	40.9	3.450	29.3		1.60	0.85	2.6	13.4	31.50	2.0	5.60	81.0	62.80	18
32	1.50		29.6		5.2	3.6	2.5	43.0	40.7	3.540	30.3		1.60	0.85	2.6	13.8	31.20	2.0	5.55	83.0	61.80	17
33	1.50		30.5		5.2	3.7	2.5	44.0	41.7	3.690	31.3	-0.25	1.60	0.85	2.6	14.3	31.60	2.0	5.65	86.0	62.20	17
34	1.50		31.5	+0.25	5.4	3.8	2.5	45.4	43.1	3.800	32.3		1.60	0.85	2.6	14.7	31.30	2.0	5.60	88.0	61.30	16
35	1.50		32.2	-0.50	5.6	3.9	2.5	46.8	44.2	4.000	33.0		1.60	1.00	3.0	17.8	30.80	2.0	5.55	107.0	60.10	16
36	1.75		33.2		5.6	4.0	2.5	47.8	45.2	5.000	34.0		1.85	1.00	3.0	18.3	49.40	2.0	9.00	110.0	95.80	15
37	1.75		34.2		5.7	4.1	2.5	49.0	47.0	5.370	35.0		1.85	1.00	3.0	18.8	50.00	2.0	9.15	113.0	96.40	14

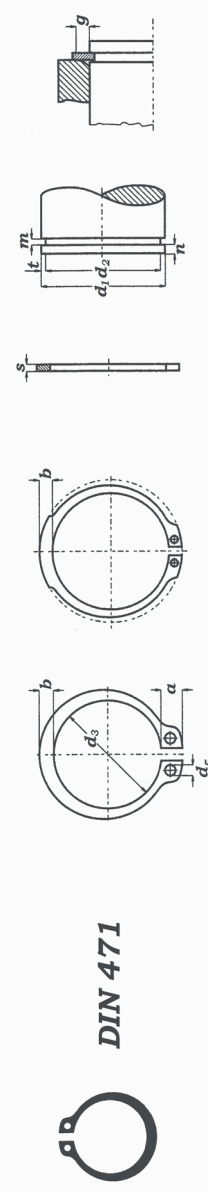


# industrial - inox

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# PIERŚCIEŃNIE OSADCZE DIN 471

d <sub>1</sub>	DIN 471										D A N E									
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>det</sub> x1000 (rpm)
38	1.75		35.2		5.8	4.2	2.5	5.620	36.0		1.85	1.00	3.0	19.3	49.5	2.0	9.10	116	95.0	14
39	1.75		36.0		5.9	4.3	2.5	5.850	37.0		1.85	1.00	3.8	19.9	49.8		9.25	119	95.2	15
40	1.75		36.5		6.0	4.4	2.5	6.030	37.5		1.85	1.25	3.8	25.3	51.0		9.50	152	97.0	14
41	1.75		37.5		6.2	4.5	2.5	6.215	38.5		1.85	1.25		26.0	50.1		9.40	156	94.5	14
42	1.75		38.5		6.5	4.5	2.5	6.500	39.5		1.85	1.25		26.7	50.0		9.45	160	93.7	13
44	1.75	-0.06	40.5		6.6	4.6	2.5	7.000	41.5	-0.25	1.85	1.25	3.8	28.0	48.5	2.0	9.20	168	90.7	12
45	1.75		41.5		6.7	4.7	2.5	7.500	42.5		1.85	1.25		28.6	49.0		9.35	172	91.0	11
46	1.75		42.5	+0.39	6.7	4.8	2.5	7.600	43.5		1.85	1.25		29.4	48.9		9.40	177	90.2	11
47	1.75		43.5	-0.90	6.8	4.9	2.5	7.500	44.5		1.85	1.25		30.0	49.5		9.55	180	90.7	11
48	1.75		44.5		6.9	5.0	2.5	7.900	45.5		1.85	1.25		30.7	49.4		9.55	184	90.0	10
50	2.00		45.8		6.9	5.1	2.5	10.20	47.0		2.15	1.50	4.5	38.0	73.3	2.0	14.40	228	133.0	11
52	2.00		47.8		7.0	5.2	2.5	11.10	49.0		2.15	1.50		39.7	73.1	2.5	11.50	238	133.0	10
54	2.00		49.8		7.1	5.3	2.5	11.30	51.0		2.15	1.50		41.2	71.2		11.30	247	129.0	9
55	2.00		50.8		7.2	5.4	2.5	11.40	52.0		2.15	1.50		42.0	71.4		11.40	252	130.0	9
56	2.00		51.8		7.3	5.5	2.5	11.80	53.0		2.15	1.50		42.8	70.8		11.30	257	129.0	9
57	2.00		52.8		7.3	5.5	2.5	12.20	54.0		2.15	1.50	4.5	43.7	70.9	2.5	11.40	262	128.0	8
58	2.00		53.8		7.3	5.6	2.5	12.60	55.0		2.15	1.50		44.3	71.1		11.50	266	129.0	8
60	2.00		55.8		7.4	5.8	2.5	12.90	57.0		2.15	1.50		46.0	69.2		11.30	276	126.0	8
62	2.00		57.8		7.5	6.0	2.5	14.30	59.0		2.15	1.50		47.5	69.3		11.40	285	126.0	7
63	2.00	-0.07	58.8		7.6	6.2	2.5	15.90	60.0		2.15	1.50		48.3	70.2		11.60	290	126.0	7
65	2.50		60.8		7.8	6.3	3.0	18.20	62.0	-0.30	2.65	1.50	4.5	49.8	135.0	2.5	22.70	299	245.0	7
67	2.50		62.5	+0.46	7.9	6.4	3.0	20.30	64.0		2.65	1.50		51.3	136.0		23.00	308	245.0	7
68	2.50		63.5	-1.10	8.0	6.5	3.0	21.80	65.0		2.65	1.50		52.2	135.0		23.10	313	244.0	7
70	2.50		65.5		8.1	6.6	3.0	22.00	67.0		2.65	1.50		53.8	134.0		23.00	323	241.0	7
72	2.50		67.5		8.2	6.8	3.0	22.50	69.0		2.65	1.50		55.3	131.0		22.80	332	236.0	6
75	2.50		70.5		8.4	7.0	3.0	24.60	72.0		2.65	1.50	4.5	57.6	130.0	2.5	22.80	346	234.0	6
77	2.50		72.5		8.5	7.2	3.0	25.70	74.0		2.65	1.50		59.3	131.0	3.0	19.70	356	238.0	6
78	2.50		73.5		8.6	7.3	3.0	26.20	75.0		2.65	1.50		60.0	131.0		19.70	360	239.0	5
80	2.50		74.5		8.6	7.4	3.0	27.30	76.5		2.65	1.75	5.3	71.6	128.0		19.50	430	236.0	6
82	2.50		76.5		8.7	7.6	3.0	31.20	78.5		2.65	1.75		73.5	128.0		19.60	441	237.0	6
85	3.00		79.5		8.7	7.8	3.5	36.40	81.5		3.15	1.75	5.3	76.2	215.0	3.0	33.40	457	405.0	6
87	3.00		81.5		8.8	7.9	3.5	39.80	83.5		3.15	1.75		78.2	222.0		34.80	469	405.0	5
88	3.00	-0.08	82.5		8.8	8.0	3.5	41.20	84.5	-0.35	3.15	1.75		79.0	221.0		34.80	474	406.0	5
90	3.00		84.5	+0.54	8.8	8.2	3.5	44.50	86.5		3.15	1.75		80.0	217.0		34.40	485	401.0	5
92	3.00		86.5	-1.30	9.0	8.4	3.5	46.00	88.5		3.15	1.75		82.0	217.0	3.5	29.60	496	404.0	5



DIN 471

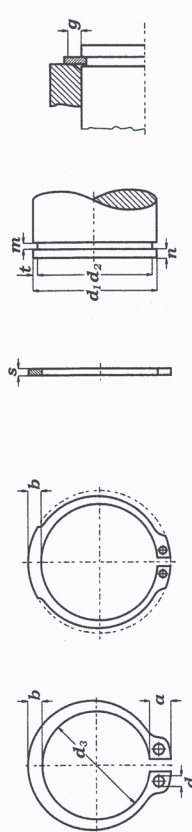
**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 471

d <sub>1</sub>	D										A				N				E			
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>det.</sub> x1000 (rpm)		
95	3.00		89.5		9.4	8.6	3.5	49.0	91.5		3.15	1.75	5.3	85.0	212	3.5	29.20	513	400	5		
97	3.00	-0.08	91.5		9.4	8.8	3.5	50.2	93.5		3.15	1.75		87.0	211		29.40	524	401	4		
98	3.00		91.5		9.4	8.8	3.5	50.2	94.5		3.15	1.75		88.0	208		29.00	529	397	4		
100	3.00		94.5		9.6	9.0	3.5	53.7	96.5		3.15	1.75		90.0	206		29.00	540	397	4		
102	4.00		95.0		9.7	9.2	3.5	78.0	98.0		4.15	2.00	6.0	104.0	482		68.50	628	935	5		
105	4.00		98.0		9.9	9.3	3.5	80.0	101.0		4.15	2.00	6.0	107.0	471	3.5	67.70	646	925	5		
107	4.00		100.0		10.0	9.5	3.5	81.0	103.0		4.15	2.00		110.0	465		67.30	660	920	5		
108	4.00		100.0		10.0	9.5	3.5	81.0	104.0		4.15	2.00		111.0	459		66.30	666	912	4		
110	4.00	+0.54	103.0		10.1	9.6	3.5	82.0	106.0		4.15	2.00		113.0	457		66.90	678	914	4		
112	4.00	-1.30	105.0		10.3	9.7	3.5	83.0	108.0		4.15	2.00		115.0	451		66.60	690	910	4		
115	4.00		108.0		10.6	9.8	3.5	84.0	111.0		4.15	2.00	6.0	118.0	438	3.5	65.50	709	894	4		
117	4.00		110.0		10.8	10.0	3.5	85.0	113.0		4.15	2.00		120.0	437		65.60	722	899	4		
118	4.00		110.0		10.8	10.0	3.5	85.0	114.0		4.15	2.00		121.0	430		64.80	728	887	4		
120	4.00		113.0		11.0	10.2	3.5	86.0	116.0		4.15	2.00		123.0	424		64.50	741	882	4		
122	4.00		115.0		11.2	10.3	4.0	88.0	118.0		4.15	2.00		125.0	418	4.0	56.60	753	875	4		
125	4.00		118.0		11.4	10.4	4.0	90.0	121.0		4.15	2.00	6.0	128.0	411	4.0	56.50	772	870	3		
127	4.00		120.0		11.4	10.5	4.0	95.0	123.0		4.15	2.00		130.0	407		56.10	785	868	3		
128	4.00		120.0		11.4	10.5	4.0	95.0	124.0		4.15	2.00		131.0	401		55.60	791	859	3		
130	4.00		123.0		11.6	10.7	4.0	100.0	126.0		4.15	2.00		134.0	395		55.20	804	852	3		
132	4.00	-0.10	125.0		11.7	10.8	4.0	103.0	128.0		4.15	2.00		136.0	396		55.60	816	859	3		
135	4.00		128.0		11.8	11.0	4.0	104.0	131.0		4.15	2.00	6.0	139.0	389	4.0	55.40	835	854	3		
137	4.00		130.0		11.9	11.0	4.0	107.0	133.0		4.15	2.00		141.0	380		54.40	848	840	3		
138	4.00		130.0		11.9	11.0	4.0	107.0	134.0		4.15	2.00		142.0	381		54.70	854	845	3		
140	4.00		133.0		12.0	11.2	4.0	110.0	136.0		4.15	2.00		144.0	376		54.40	867	840	3		
142	4.00		135.0		12.1	11.3	4.0	112.0	138.0		4.15	2.00		146.0	370		54.00	880	833	3		
145	4.00	+0.63	138.0		12.2	11.5	4.0	115.0	141.0		4.15	2.00	6.0	149.0	367	4.0	53.80	898	833	3		
147	4.00	-1.50	140.0		12.3	11.6	4.0	116.0	143.0		4.15	2.00		151.0	361		53.50	910	826	3		
148	4.00		140.0		12.3	11.6	4.0	116.0	144.0		4.15	2.00		152.0	357		53.00	916	820	2		
150	4.00		142.0		13.0	11.8	4.0	120.0	145.0		4.15	2.50	7.5	193.0	357		53.40	1158	825	2		
152	4.00		143.0		13.0	11.9	4.0	128.0	147.0		4.15	2.50		195.0	356		53.10	1174	822	3		
155	4.00		146.0		13.0	12.0	4.0	135.0	150.0		4.15	2.50	7.5	199.0	352	4.0	52.60	1198	814	3		
157	4.00		148.0		13.1	12.0	4.0	140.0	152.0		4.15	2.50		202.0	352		52.50	1212	814	3		
158	4.00		148.0		13.1	12.0	4.0	140.0	153.0		4.15	2.50		203.0	353		52.70	1221	815	3		
160	4.00		151.0		13.3	12.2	4.0	150.0	155.0		4.15	2.50		206.0	349		52.50	1237	806	3		
162	4.00		152.5		13.3	12.3	4.0	155.0	157.0		4.15	2.50		208.0	348	5.0	41.70	1251	804	3		



DIN 471

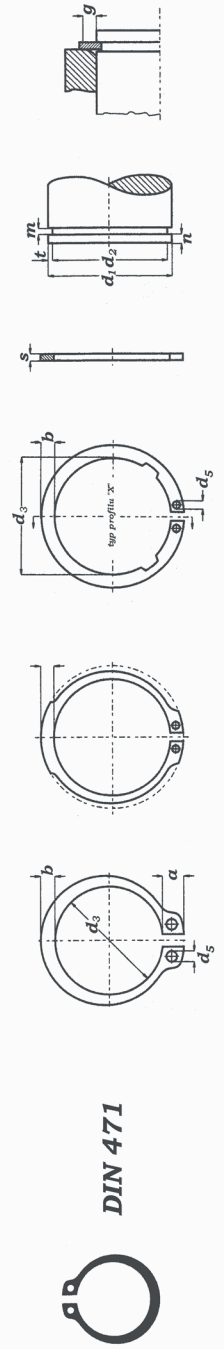


**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 471

d <sub>1</sub>	D										A										N										E									
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5 min.</sub>	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>det.</sub> x1000 (rpm)																				
165	4.00		155.5		13.5	12.5	4.0	160.0		4.15	2.50	7.5	212.0	345	5.0	41.40	1275	797	3																					
167	4.00		157.5		13.5	12.9	4.0	163.0		4.15	2.50		215.0	354		42.50	1291	819	3																					
168	4.00		157.5		13.5	12.9	4.0	163.0		4.15	2.50		216.0	353		42.40	1300	815	2																					
170	4.00		160.5		13.5	12.9	4.0	170.0		4.15	2.50		219.0	349		41.90	1315	806	2																					
172	4.00		160.5		13.5	12.9	4.0	170.0		4.15	2.50		221.0	344		41.30	1330	795	2																					
175	4.00		165.5	+0.63	13.5	12.9	4.0	180.0	-0.63	4.15	2.50	7.5	225.0	340	5.0	40.70	1353	785	2																					
177	4.00		167.5	-1.50	14.2	13.5	4.0	183.0		4.15	2.50		228.0	335		40.20	1370	774	2																					
178	4.00		167.5		14.2	13.5	4.0	183.0		4.15	2.50		229.0	349		42.00	1378	807	2																					
180	4.00		170.5		14.2	13.5	4.0	190.0		4.15	2.50		232.0	345		41.40	1393	797	2																					
182	4.00	-0.10	170.5		14.2	13.5	4.0	190.0		4.15	2.50		235.0	341		41.00	1410	789	2																					
185	4.00		175.5		14.2	13.5	4.0	200.0		4.15	2.50	7.5	238.0	336	5.0	40.40	1432	777	2																					
187	4.00		177.5		14.2	14.0	4.0	203.0		4.15	2.50		241.0	338		40.50	1449	781	2																					
188	4.00		177.5		14.2	14.0	4.0	203.0		4.15	2.50		242.0	337		40.60	1457	779	2																					
190	4.00		180.5		14.2	14.0	4.0	210.0		4.15	2.50		245.0	333		40.00	1471	770	3																					
192	4.00		180.5		14.2	14.0	4.0	210.0		4.15	2.50		248.0	330		39.60	1488	763	3																					
195	4.00		185.5		14.2	14.0	4.0	220.0		4.15	2.50	7.5	251.0	325	5.0	39.00	1511	751	2																					
197	4.00		187.5		14.2	14.0	4.0	223.0		4.15	2.50		254.0	322		38.60	1528	744	2																					
198	4.00		187.5		14.2	14.0	4.0	223.0		4.15	2.50		255.0	322		38.70	1535	739	2																					
200	4.00		190.5		14.2	14.0	4.0	230.0		4.15	2.50		258.0	319		38.30	1550	731	2																					
202	5.00		190.0		14.2	14.0	4.0	235.0		5.15	3.00	9.0	312.0	624	6.0	62.50	1875	1430	2																					
205	5.00		193.0		14.2	14.0	4.0	243.0		5.15	3.00	9.0	317.0	611	6.0	61.30	1905	1401	2																					
207	5.00		193.0		14.2	14.0	4.0	243.0		5.15	3.00		320.0	608		60.90	1921	1392	2																					
208	5.00		193.0		14.2	14.0	4.0	243.0	-0.72	5.15	3.00		321.0	605		60.50	1930	1385	2																					
210	5.00		198.0		14.2	14.0	4.0	248.0		5.15	3.00		325.0	598		59.90	1951	1370	2																					
212	5.00		198.0	+0.72	14.2	14.0	4.0	248.0		5.15	3.00		328.0	593		59.50	1969	1359	2																					
215	5.00		203.0	-1.70	14.2	14.0	4.0	260.0		5.15	3.00	9.0	332.0	585	6.0	58.50	1997	1340	2																					
217	5.00		203.0		14.2	14.0	4.0	260.0		5.15	3.00		336.0	580		58.10	2018	1330	2																					
218	5.00		203.0		14.2	14.0	4.0	260.0		5.15	3.00		337.0	577		57.80	2024	1322	2																					
220	5.00		208.0		14.2	14.0	4.0	265.0		5.15	3.00		340.0	572		57.30	2045	1311	2																					
222	5.00		208.0		14.2	14.0	4.0	265.0		5.15	3.00		343.0	567		56.80	2062	1300	2																					
225	5.00		213.0		14.2	14.0	4.0	280.0		5.15	3.00	9.0	349.0	559	6.0	56.00	2095	1282	2																					
227	5.00		213.0		14.2	14.0	4.0	280.0		5.15	3.00		351.0	555		55.50	2110	1271	1																					
228	5.00		213.0		14.2	14.0	4.0	280.0		5.15	3.00		353.0	552		55.40	2120	1265	1																					
230	5.00		218.0		14.2	14.0	4.0	290.0		5.15	3.00		356.0	548		55.00	2140	1257	1																					
232	5.00		218.0		14.2	14.0	4.0	290.0		5.15	3.00		359.0	543		54.50	2155	1243	1																					



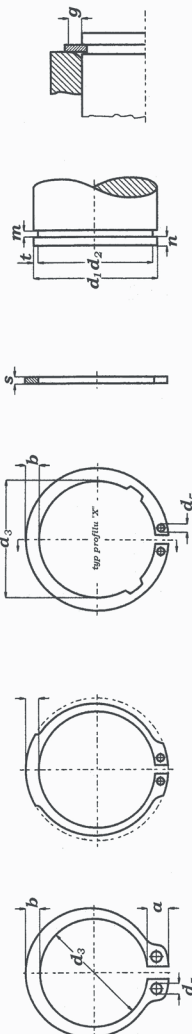
DIN 471

**industrial - inox**

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# PIERŚCIENIE OSADCZE DIN 471

d <sub>1</sub>	D A N E										n <sub>def.</sub> x1000 (rpm)								
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ		m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )
235	5.00		223.0		14.2	14.0	4.0	305	229		5.15	3.00	9.0	364	537	6.0	53.80	2185	1230
237	5.00		223.0		14.2	14.0	4.0	305	231		5.15	3.00		367	532		53.40	2202	1220
238	5.00		223.0		14.2	14.0	4.0	305	232		5.15	3.00		369	530		53.00	2215	1214
240	5.00		228.0		14.2	14.0	4.0	310	234		5.15	3.00		372	530		53.00	2236	1214
242	5.00		228.0		14.2	14.0	4.0	310	236		5.15	3.00		375	520		52.20	2250	1193
245	5.00		233.0		14.2	14.0	4.0	325	239		5.15	3.00		380	515	6.0	51.50	2280	1180
247	5.00		233.0		14.2	14.0	4.0	325	241	-0.72	5.15	3.00		383	511		51.20	2300	1171
248	5.00		233.0		14.2	14.0	4.0	325	242		5.15	3.00		385	508		50.90	2310	1164
250	5.00		238.0		14.2	14.0	4.0	335	244		5.15	3.00		388	504		50.50	2330	1155
252	5.00	+0.72 -1.70	238.0		16.2	16.0	5.0	335	244		5.15	4.00	12.0	519	563		56.40	3115	1290
255	5.00		240.0		16.2	16.0	5.0	348	247		5.15	4.00		525	557	6.0	55.70	3150	1276
257	5.00		240.0		16.2	16.0	5.0	348	249		5.15	4.00		529	551		55.20	3175	1264
258	5.00		240.0		16.2	16.0	5.0	348	250		5.15	4.00		531	550		55.10	3190	1260
260	5.00		245.0		16.2	16.0	5.0	355	252		5.15	4.00		535	540		54.60	3215	1250
262	5.00		245.0		16.2	16.0	5.0	355	254		5.15	4.00		540	542		54.40	3240	1242
265	5.00		250.0		16.2	16.0	5.0	370	257		5.15	4.00		546	536	6.0	53.70	3280	1228
267	5.00	-0.12	250.0		16.2	16.0	5.0	370	259		5.15	4.00		550	532		53.30	3300	1219
268	5.00		250.0		16.2	16.0	5.0	370	260		5.15	4.00		553	529		53.00	3320	1213
270	5.00		255.0		16.2	16.0	5.0	375	262		5.15	4.00		556	525		52.50	3340	1203
272	5.00		255.0		16.2	16.0	5.0	375	264		5.15	4.00		560	522		52.00	3365	1196
275	5.00		260.0		16.2	16.0	5.0	390	267		5.15	4.00		566	516	6.0	51.00	3400	1183
277	5.00		260.0		16.2	16.0	5.0	390	269		5.15	4.00		571	513		51.00	3430	1175
278	5.00		260.0		16.2	16.0	5.0	390	270		5.15	4.00		574	510		51.00	3445	1170
280	5.00		265.0		16.2	16.0	5.0	398	272	-0.81	5.15	4.00		576	508		50.00	3460	1164
282	5.00		265.0		16.2	16.0	5.0	398	274		5.15	4.00		580	503		50.00	3485	1152
285	5.00	+0.81	270.0		16.2	16.0	5.0	410	277		5.15	4.00		587	499	6.0	50.00	3525	1143
287	5.00	-2.00	270.0		16.2	16.0	5.0	410	279		5.15	4.00		591	494		49.00	3550	1133
288	5.00		270.0		16.2	16.0	5.0	410	280		5.15	4.00		594	493		49.00	3565	1131
290	5.00		275.0		16.2	16.0	5.0	418	282		5.15	4.00		599	490		49.00	3595	1124
292	5.00		275.0		16.2	16.0	5.0	418	284		5.15	4.00		603	487		48.00	3620	1116
295	5.00		280.0		16.2	16.0	5.0	430	287		5.15	4.00		609	481	6.0	48.00	3655	1103
297	5.00		280.0		16.2	16.0	5.0	430	289		5.15	4.00		613	479		48.00	3680	1098
298	5.00		280.0		16.2	16.0	5.0	430	290		5.15	4.00		615	476		47.00	3695	1092
300	5.00		285.0		16.2	16.0	5.0	440	292		5.15	4.00		619	475		47.00	3715	1088
305	6.00	-0.15	288.0			20.0	6.0	738	295		6.20	5.00	15.0	785	1036	7.0	89.00	4712	2374



DIN 471

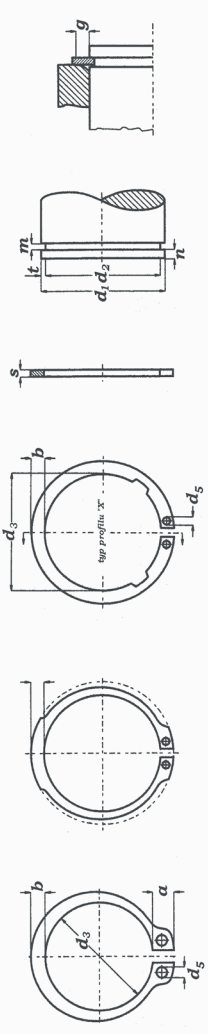
# industrial - inox

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# PIERŚCIENIE OSADCZE DIN 471

d <sub>1</sub>	Ø					H					D A N E									
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>def.</sub> x1000 (rpm)
310	6.00		293.0			20.0	6.0	750	300		6.20	5.00	15.0	796	1016	7.0	87.00	4780	2329	1.0
315	6.00		298.0			20.0	6.0	760	305		6.20	5.00		811	1007		86.00	4869	2307	1.0
320	6.00	+0.81	303.0			20.0	6.0	770	310	-0.81	6.20	5.00		825	988		85.00	4950	2264	1.0
325	6.00	-2.00	308.0			20.0	6.0	787	315		6.20	5.00		837	975		83.00	5027	2233	1.0
330	6.00		313.0			20.0	6.0	800	320		6.20	5.00		850	958		82.00	5100	2195	1.0
335	6.00		318.0			20.0	6.0	826	325		6.20	5.00	15.0	864	945	7.0	81.00	5184	2166	1.0
340	6.00		323.0			20.0	6.0	840	330		6.20	5.00		876	932		80.00	5260	2136	1.0
345	6.00		328.0			20.0	6.0	845	335		6.20	5.00		890	917		79.00	5341	2102	1.0
350	6.00		333.0			20.0	6.0	850	340		6.20	5.00		903	906		77.00	5420	2074	1.0
355	6.00		338.0			20.0	6.0	865	345		6.20	5.00		916	894		76.00	5498	2048	1.0
360	6.00		343.0			20.0	6.0	880	350		6.20	5.00	15.0	928	880	7.0	75.00	5570	2017	1.0
365	6.00		348.0			20.0	6.0	885	355	-0.89	6.20	5.00		942	868		74.00	5655	1990	1.0
370	6.00		353.0			20.0	6.0	890	360		6.20	5.00		955	856		73.00	5730	1962	1.0
375	6.00	+0.90	358.0			20.0	6.0	910	365		6.20	5.00		968	847		72.00	5812	1943	1.0
380	6.00	-2.00	363.0			20.0	6.0	930	370		6.20	5.00		980	833		71.00	5880	1909	1.0
385	6.00		368.0			20.0	6.0	940	375		6.20	5.00	15.0	994	823	7.0	70.00	5969	1886	1.0
390	6.00		373.0			20.0	6.0	950	380		6.20	5.00		1008	814		70.00	6050	1865	1.0
395	6.00	-0.15	378.0			20.0	6.0	990	385		6.20	5.00		1021	803		69.00	6126	1841	1.0
400	6.00		383.0			20.0	6.0	1040	390		6.20	5.00		1033	793		69.00	6200	1817	1.0
410	7.00		390.0			26.0	6.0	1320	398		7.20	6.00	18.0	1269	1616		139.00	7615	3701	1.0
420	7.00		400.0			26.0	6.0	1360	408		7.20	6.00		1300	1569	7.0	135.00	7803	3595	1.0
430	7.00		410.0			26.0	6.0	1390	418		7.20	6.00		1332	1540		132.00	7992	3527	1.0
440	7.00		420.0			26.0	6.0	1420	428		7.20	6.00		1363	1500		129.00	8181	3448	1.0
450	7.00		430.0			26.0	6.0	1450	438		7.20	6.00		1393	1472		126.00	8360	3373	1.0
460	7.00		440.0			26.0	6.0	1520	448		7.20	6.00		1426	1443		124.00	8557	3305	1.0
470	7.00		450.0	+1.00		26.0	6.0	1590	458		7.20	6.00	18.0	1457	1413	7.0	121.00	8746	3237	1.0
480	7.00	-2.00	460.0			26.0	6.0	1660	468		7.20	6.00		1489	1383		119.00	8935	3169	0.5
490	7.00		470.0			26.0	6.0	1725	478	-1.00	7.20	6.00		1520	1355		116.00	9123	3105	0.5
500	7.00		480.0			26.0	6.0	1790	488		7.20	6.00		1550	1329		114.00	9300	3044	0.5
510	8.00		485.0			26.0	6.0	2300	496		8.20	7.00	21.0	1843	1952		167.00	11061	4471	1.0
520	8.00		495.0			26.0	6.0	2350	506		8.20	7.00		1880	1910	7.0	164.00	11282	4387	0.5
530	8.00		505.0			26.0	6.0	2400	516		8.20	7.00		1916	1878		161.00	11501	4302	0.5
540	8.00		515.0	+1.50		26.0	6.0	2445	526		8.20	7.00		1953	1846		158.00	11721	4229	0.4
550	8.00	-3.00	525.0			26.0	6.0	2490	536		8.20	7.00		1986	1812		155.00	11920	4150	0.4
560	8.00		535.0			26.0	6.0	2580	546		8.20	7.00		2026	1777		153.00	12161	4071	0.4



DIN 471

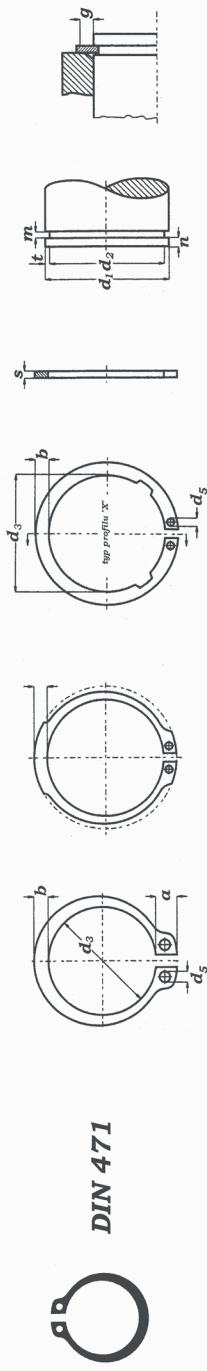


# industrial - inox

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# PIERŚCIENIE OSADCZE DIN 471

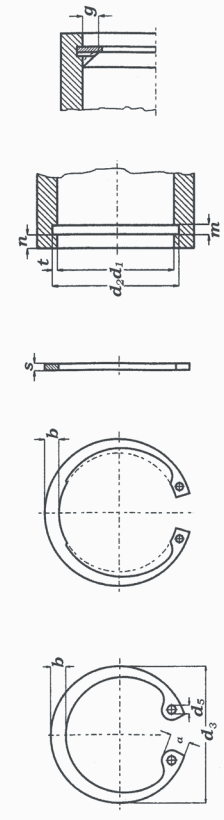
d <sub>1</sub>	D A N E																			
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>det.</sub> x1000 (rpm)
570	8.00		545.0			26.0	6.0	2670	556		8.20	7.00	21.0	2063	1750	7.0	150.00	12381	4009	0.40
580	8.00	-0.15	555.0			26.0	6.0	2760	566		8.20	7.00		2100	1718		147.00	12601	3936	0.40
590	8.00		565.0			26.0	6.0	2840	576		8.20	7.00		2136	1689		145.00	12821	3869	0.40
600	8.00	+1.50	575.0			26.0	6.0	2920	586		8.20	7.00		2170	1600		143.00	13030	3807	0.30
650	9.00	-3.00	620.0			34.0	6.0	3770	634		9.30	8.00	24.0	2640	2810		242.00	15860	6447	0.40
700	9.00		670.0			34.0	6.0	4070	684	-1.00	9.30	8.00	24.0	2890	2615	7.0	225.00	17350	5990	0.30
750	9.00		715.0			34.0	9.0	4640	732		9.30	9.00	27.0	3490	2450		207.00	20950	5606	0.19
800	9.00		765.0			34.0	9.0	5330	782		9.30	9.00		3730	2299		195.00	22380	5261	0.30
850	9.00	-0.20	810.0			34.0	9.0	6030	830		9.30	10.00	30.0	4400	2166		183.00	26400	4956	0.30
900	9.00	+2.00	860.0			34.0	9.0	6640	880		9.30	10.00		4650	2047		173.00	27950	4684	0.20
950	9.00	-4.00	900.00			34.0	9.0	7260	928		9.30	11.00	33.0	5400	1945	7.0	165.00	32450	4451	0.20
1000	9.00		950.00			34.0	9.0	8130	978		9.30	11.00		5700	1851		157.00	34200	4235	0.20



DIN 471

# PIERŚCIENIE OSADCZE DIN 472

d <sub>1</sub>	D										A										N										E									
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5 min.</sub>	Δ	(kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)																				
8	0.80	-0.05	8.7		2.4	1.1	1.0	0.10	8.4	+0.09	0.90	0.20	0.6	0.86	2.0	0.5	1.5	5.1	9.25																					
9	0.80		9.8		2.5	1.3	1.0	0.13	9.4		0.90	0.20		0.96	2.0		1.5	5.7	8.40																					
10	1.00		10.8		3.2	1.4	1.2	0.26	10.4		1.10	0.20		1.08	4.0		2.2	6.4	19.60																					
11	1.00		11.8		3.3	1.5	1.2	0.31	11.4		1.10	0.20		1.17	4.0		2.3	7.0	21.00																					
12	1.00		13.0	+0.36	3.4	1.7	1.5	0.37	12.5		1.10	0.25	0.8	1.60	4.0		2.3	9.6	20.20																					
13	1.00		14.1	-0.10	3.6	1.8	1.5	0.42	13.6	+0.11	1.10	0.30	0.9	2.10	4.2	0.5	2.3	12.5	20.30																					
14	1.00		15.1		3.7	1.8	1.7	0.52	14.6		1.10	0.30		2.10	4.5		2.3	13.4	19.70																					
15	1.00		16.2		3.7	2.0	1.7	0.56	15.7		1.10	0.35	1.1	2.80	5.0		2.3	16.8	19.00																					
16	1.00		17.3		3.8	2.0	1.7	0.60	16.8		1.10	0.40	1.2	3.40	5.5	1.0	2.6	20.6	18.40																					
17	1.00		18.3		3.9	2.1	1.7	0.65	17.8		1.10	0.40		3.60	6.0		2.5	21.8	18.10																					
18	1.00		19.5		4.1	2.2	2.0	0.74	19.0		1.10	0.50	1.5	4.80	6.5	1.0	2.6	29.0	18.20																					
19	1.00		20.5	+0.42	4.1	2.2	2.0	0.83	20.0		1.10	0.50		5.10	6.8		2.6	30.6	17.20																					
20	1.00		21.5	-0.13	4.1	2.3	2.0	0.90	21.0	+0.13	1.10	0.50		5.40	7.2		2.6	32.2	16.90																					
21	1.00		22.5		4.2	2.4	2.0	1.00	22.0		1.10	0.50		5.70	7.6		2.6	33.8	17.20																					
22	1.00		23.5		4.2	2.5	2.0	1.10	23.0		1.10	0.50		5.90	8.0		2.7	35.3	17.60																					
23	1.20		24.6		4.2	2.5	2.0	1.34	24.1		1.30	0.55	1.7	6.80	8.0	1.0	4.6	40.7	28.80																					
24	1.20		25.9		4.3	2.6	2.0	1.42	25.2		1.30	0.60	1.8	7.70	13.9		4.6	46.3	28.40																					
25	1.20		26.9	+0.42	4.5	2.7	2.0	1.50	26.2		1.30	0.60		8.00	14.6		4.7	48.2	29.00																					
26	1.20		27.9	-0.21	4.7	2.8	2.0	1.60	27.2	+0.21	1.30	0.60		8.40	13.8		4.6	50.1	27.80																					
27	1.20		29.1		4.7	2.9	2.0	1.75	28.4		1.30	0.70	2.1	10.10	13.3		4.5	60.9	26.60																					
28	1.20		30.1		4.8	2.9	2.0	1.80	29.4		1.30	0.70	2.1	10.50	13.3	1.0	4.5	63.1	26.30																					
29	1.20		31.1		4.8	3.0	2.0	1.88	30.4		1.30	0.70		10.90	13.6		4.6	65.3	26.80																					
30	1.20		32.1		4.8	3.0	2.0	2.06	31.4		1.30	0.70		11.30	13.7		4.6	67.5	26.60																					
31	1.20		33.4		5.2	3.1	2.5	2.10	32.7		1.30	0.85	2.6	14.10	13.8		4.7	84.8	26.80																					
32	1.20		34.4		5.4	3.2	2.5	2.21	33.7		1.30	0.85		14.60	13.8		4.7	87.9	26.60																					
33	1.20		35.5	+0.50	5.4	3.3	2.5	2.40	34.7		1.30	0.85	2.6	15.00	14.3	1.0	4.9	90.3	27.00																					
34	1.50		36.5	-0.25	5.4	3.3	2.5	3.20	35.7		1.60	0.85	1.5	15.40	26.2		6.3	92.6	50.00																					
35	1.50		37.8		5.4	3.4	2.5	3.54	37.0	+0.25	1.60	1.00	3.0	18.80	26.9		6.4	113.0	50.50																					
36	1.50		38.8		5.4	3.5	2.5	3.70	38.0		1.60	1.00		19.40	26.4		6.4	116.0	50.20																					
37	1.50		39.8		5.5	3.6	2.5	3.74	39.0		1.60	1.00		19.80	27.1		6.5	119.0	51.00																					
38	1.50		40.8		5.5	3.7	2.5	3.90	40.0		1.60	1.00	3.0	22.50	28.2	1.5	6.7	123.0	51.70																					
39	1.50		42.0		5.6	3.8	2.5	4.00	41.0		1.60	1.00		26.00	28.8		6.9	126.0	52.40																					
40	1.75		43.5	+0.90	5.8	3.9	2.5	4.70	42.5		1.85	1.25	3.8	27.00	44.6	2.0	8.3	162.0	80.10																					
41	1.75		44.5	-0.39	5.9	4.0	2.5	5.10	43.5		1.85	1.25		27.60	45.0		8.3	166.0	81.20																					
42	1.75		45.5		5.9	4.1	2.5	5.40	44.5		1.85	1.25		28.40	44.7		8.4	170.0	80.90																					



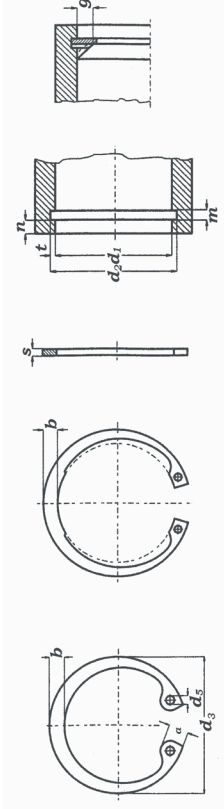
# industrial - inox

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# PIERŚCIENIE OSADCZE DIN 472

d <sub>1</sub>	DIN 472										D A N E								
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)
43	1.75		46.5	+0.90	5.9	4.2	2.5	5.60	45.5		1.85	1.25	3.8	28.80	44.5	2.0	8.4	173	80.5
44	1.75		47.5	-0.39	6.0	4.2	2.5	5.80	46.5		1.85	1.25		29.50	43.3		8.3	177	78.6
45	1.75	-0.06	48.5		6.2	4.3	2.5	6.00	47.5		1.85	1.25		30.20	43.1		8.2	181	78.1
46	1.75		49.5		6.3	4.4	2.5	6.05	48.5		1.85	1.25		30.80	42.9		8.2	185	77.8
47	1.75		50.5		6.4	4.4	2.5	6.10	49.5		1.85	1.25		31.40	43.5		8.3	189	78.9
48	1.75		51.5		6.4	4.5	2.5	6.70	50.5		1.85	1.25	3.8	32.00	43.2	2.0	8.4	193	78.5
50	2.00		54.2		6.5	4.6	2.5	7.30	53.0		2.15	1.50	4.5	40.50	60.8		12.1	243	111.0
51	2.00		55.2		6.5	4.7	2.5	7.75	54.0		2.15	1.50		41.20	60.2		12.0	247	109.0
52	2.00		56.2		6.7	4.7	2.5	8.20	55.0		2.15	1.50		42.00	60.2		12.0	252	108.0
53	2.00		57.2		6.7	4.9	2.5	8.22	56.0		2.15	1.50		42.90	60.7		12.1	257	110.0
54	2.00		58.2		6.7	5.0	2.5	8.25	57.0		2.15	1.50	4.5	43.60	60.4	2.0	12.3	262	110.0
55	2.00		59.2		6.8	5.0	2.5	8.30	58.0		2.15	1.50		44.40	60.3		12.5	266	111.0
56	2.00		60.2		6.8	5.1	2.5	8.80	59.0		2.15	1.50		45.20	60.3		12.6	271	111.0
57	2.00		61.2		6.8	5.1	2.5	9.40	60.0		2.15	1.50		46.00	60.8		12.7	276	112.0
58	2.00		62.2	+1.10	6.9	5.2	2.5	10.50	61.0		2.15	1.50		46.70	60.8		12.7	280	112.0
60	2.00		64.2	-0.46	7.3	5.4	2.5	11.10	63.0		2.15	1.50	4.5	48.30	61.0	2.0	13.0	290	113.0
62	2.00		66.2		7.3	5.5	2.5	11.20	65.0		2.15	1.50		49.80	60.9		13.0	299	112.0
63	2.00		67.2		7.3	5.6	2.5	12.40	66.0		2.15	1.50		50.60	60.8		13.0	304	112.0
64	2.00		68.2		7.4	5.7	2.5	12.45	67.0		2.15	1.50		51.40	60.6		13.0	308	112.0
65	2.50	-0.07	69.2		7.6	5.8	3.0	14.30	68.0		2.65	1.50	2.5	51.80	121.0	2.5	20.8	313	220.0
67	2.50		71.5		7.7	6.0	3.0	15.30	70.0		2.65	1.50	4.5	53.80	121.0	2.5	21.1	323	222.0
68	2.50		72.5		7.8	6.1	3.0	16.00	71.0		2.65	1.50		56.20	119.0		21.0	337	218.0
70	2.50		74.5		7.8	6.2	3.0	16.50	73.0		2.65	1.50		56.20	119.0		21.0	337	218.0
72	2.50		76.5		7.8	6.4	3.0	18.10	75.0		2.65	1.50		58.00	119.0		21.0	346	217.0
75	2.50		79.5		7.8	6.6	3.0	18.80	78.0		2.65	1.50		60.00	118.0		21.0	360	215.0
77	2.50		82.5		8.5	6.8	3.0	20.40	80.0		2.65	1.50	4.5	61.60	121.0	2.5	21.5	370	220.0
78	2.50		82.5		8.5	6.8	3.0	20.40	81.0		2.65	1.50		62.30	122.0		21.8	374	221.0
80	2.50		85.5		8.5	7.0	3.0	22.00	83.5		2.65	1.75	5.3	74.60	120.0		21.8	448	219.0
81	2.50		86.5		8.5	7.0	3.0	23.00	84.5		2.65	1.75		75.80	119.0		21.6	455	216.0
82	2.50		87.5	+1.30	8.5	7.0	3.0	24.00	85.5		2.65	1.75		76.60	119.0		21.4	460	214.0
83	2.50		88.5	-0.54	8.5	7.0	3.0	25.00	86.5		2.65	1.75	5.3	77.50	118.0	2.5	21.2	466	213.0
85	3.00		90.5		8.6	7.2	3.5	25.30	88.5		3.15	1.75	3.0	79.50	201.0	3.0	31.2	477	364.0
87	3.00		93.5		8.6	7.4	3.5	31.00	90.5		3.15	1.75		81.30	204.0		31.8	488	370.0
88	3.00		93.5		8.6	7.4	3.5	31.00	91.5		3.15	1.75		82.00	209.0		32.7	493	380.0
90	3.00	-0.08	95.5		8.6	7.6	3.5	33.00	93.5		3.15	1.75		84.00	199.0		31.4	504	364.0



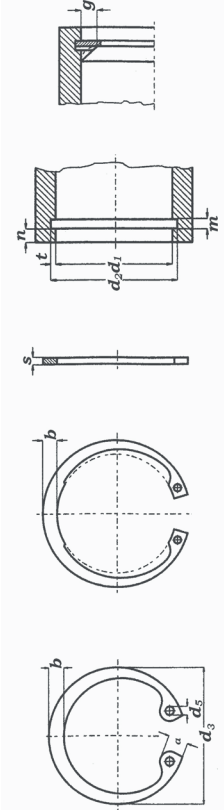
DIN 472

**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	DIN 472										D A N E								
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)
92	3.00		97.5		8.7	7.8	3.5	35.0	95.5		3.15	1.75	5.3	85.0	201	3.0	32.0	515	371
95	3.00		100.5		8.8	8.1	3.5	37.0	98.5		3.15	1.75		88.0	195		31.4	532	365
97	3.00	-0.08	103.5		9.0	8.3	3.5	41.0	100.5	+0.35	3.15	1.75		90.0	193		31.2	543	364
98	3.00		103.5		9.0	8.3	3.5	41.0	101.5		3.15	1.75		91.0	191		31.0	548	361
100	3.00		105.5		9.2	8.4	3.5	42.0	103.5		3.15	1.75		93.0	188		30.8	559	359
102	4.00	+1.30	108.0		9.5	8.5	3.5	55.0	106.0		4.15	2.00	6.0	108.0	439	3.0	72.6	653	846
105	4.00	-0.54	112.0		9.5	8.7	3.5	56.0	109.0		4.15	2.00		112.0	436		73.0	672	850
107	4.00		115.0		9.5	8.9	3.5	60.0	111.0		4.15	2.00		114.0	425		71.6	684	834
108	4.00		115.0		9.5	8.9	3.5	60.0	112.0	+0.54	4.15	2.00		115.0	419		71.0	691	825
110	4.00		117.0		10.4	9.0	3.5	64.5	114.0		4.15	2.00		117.0	415		71.0	704	824
112	4.00		119.0		10.5	9.1	3.5	72.0	116.0		4.15	2.00	6.0	119.0	418	3.0	72.0	715	837
115	4.00		122.0		10.5	9.3	3.5	74.5	119.0		4.15	2.00		122.0	409		71.2	735	829
117	4.00		125.0		10.7	9.6	3.5	75.5	121.0		4.15	2.00		124.0	399		70.0	747	814
118	4.00		125.0		10.7	9.6	3.5	75.5	122.0		4.15	2.00		125.0	394		69.3	754	807
120	4.00		127.0		11.0	9.7	3.5	77.0	124.0		4.15	2.00		127.0	396		70.0	767	818
122	4.00		129.0		11.0	9.8	4.0	78.0	126.0		4.15	2.00	6.0	129.0	399	3.0	71.0	779	829
125	4.00		132.0		11.0	10.0	4.0	79.0	129.0		4.15	2.00		132.0	385		70.0	797	809
127	4.00		135.0		11.0	10.0	4.0	81.0	131.0		4.15	2.00		135.0	383		70.0	810	808
128	4.00	-0.10	135.0		11.0	10.2	4.0	81.0	132.0		4.15	2.00		136.0	378		69.0	816	802
130	4.00		137.0		11.0	10.2	4.0	82.0	134.0		4.15	2.00		138.0	374		69.0	829	801
132	4.00		139.0		11.0	10.3	4.0	83.0	136.0		4.15	2.00	6.0	140.0	366	3.0	68.0	842	789
135	4.00		142.0	+1.50	11.2	10.5	4.0	84.0	139.0		4.15	2.00		143.0	358		67.0	860	781
137	4.00	-0.63	145.0		11.2	10.6	4.0	86.0	141.0	+0.63	4.15	2.00		145.0	356		67.0	874	780
138	4.00		145.0		11.2	10.6	4.0	86.0	142.0		4.15	2.00		146.0	352		66.5	880	775
140	4.00		147.0		11.2	10.7	4.0	87.5	144.0		4.15	2.00		148.0	350		66.5	892	775
142	4.00		149.0		11.3	10.8	4.0	89.0	146.0		4.15	2.00	6.0	150.0	342	3.0	65.5	905	764
145	4.00		152.0		11.4	10.9	4.0	93.0	149.0		4.15	2.00		153.0	336		65.0	923	757
147	4.00		155.0		11.8	11.1	4.0	100.0	151.0		4.15	2.00		156.0	336		65.0	936	757
148	4.00		155.0		11.8	11.1	4.0	100.0	152.0		4.15	2.00		157.0	331		64.5	942	753
150	4.00		158.0		12.0	11.2	4.0	105.0	155.0		4.15	2.50	7.5	191.0	326		64.0	1198	748
152	4.00		161.0		12.0	11.3	4.0	106.0	157.0		4.15	2.50	7.5	202.0	326	3.5	55.0	1212	747
155	4.00		164.0		12.0	11.4	4.0	107.0	160.0		4.15	2.50		206.0	324		55.0	1237	743
157	4.00		167.0		12.3	11.5	4.0	109.0	162.0		4.15	2.50		208.0	328		55.5	1251	752
158	4.00		167.0		12.3	11.5	4.0	109.0	163.0		4.15	2.50		210.0	326		55.0	1260	747
160	4.00		169.0		13.0	11.6	4.0	110.0	165.0		4.15	2.50		212.0	321		54.5	1275	737



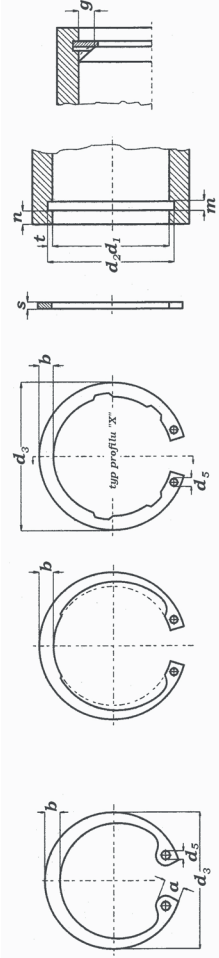
DIN 472

**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	DIN 472										D A N E								
	s	Δ	d <sub>3</sub>	Δ	α max.	b ≈	d <sub>5</sub> min.	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)
162	4.00		171.5		13.0	11.7	4.0	118.0	167.0		4.15	2.50	7.5	215.0	321	3.5	54.5	1290	736
165	4.00		174.5		13.0	11.8	4.0	125.0	170.0		4.15	2.50		219.0	319		54.0	1315	732
167	4.00		177.5	+1.50	13.5	12.1	4.0	135.0	172.0		4.15	2.50		221.0	355		60.0	1330	814
168	4.00		177.5	-0.63	13.5	12.1	4.0	135.0	173.0	+0.63	4.15	2.50		223.0	353		60.0	1339	810
170	4.00		179.5		13.5	12.2	4.0	140.0	175.0		4.15	2.50		225.0	349		59.0	1355	800
172	4.00		181.5		13.5	12.5	4.0	145.0	177.0		4.15	2.50		228.0	357	3.5	60.0	1370	818
175	4.00		184.5		13.5	12.7	4.0	150.0	180.0		4.15	2.50		232.0	351		59.0	1393	804
177	4.00		187.5		14.2	12.9	4.0	162.0	182.0		4.15	2.50		235.0	346		58.5	1410	794
178	4.00		187.5		14.2	12.9	4.0	162.0	183.0		4.15	2.50		236.0	344		58.0	1418	789
180	4.00	-0.10	189.5		14.2	13.2	4.0	165.0	185.0		4.15	2.50		238.0	347		58.5	1432	796
182	4.00		191.5		14.2	13.5	4.0	168.0	187.0		4.15	2.50		241.0	355	3.5	60.0	1449	814
185	4.00		194.5		14.2	13.7	4.0	170.0	190.0		4.15	2.50		245.0	349		59.0	1471	800
187	4.00		197.5		14.2	13.8	4.0	174.0	192.0		4.15	2.50		248.0	345		58.5	1490	792
188	4.00		197.5		14.2	13.8	4.0	174.0	193.0		4.15	2.50		249.0	343		58.0	1495	786
190	4.00		199.5		14.2	13.8	4.0	175.0	195.0		4.15	2.50		251.0	340		57.5	1510	779
192	4.00		201.5		14.2	13.8	4.0	178.0	197.0		4.15	2.50		254.0	336	3.5	57.0	1528	770
195	4.00		204.5		14.2	13.8	4.0	183.0	200.0		4.15	2.50		258.0	330		55.5	1550	756
197	4.00		207.5		14.2	14.0	4.0	190.0	202.0		4.15	2.50		260.0	330		55.5	1565	756
198	4.00		207.5	+1.70	14.2	14.0	4.0	190.0	203.0		4.15	2.50		262.0	329		55.5	1575	754
200	4.00	-0.72	209.5	-0.72	14.2	14.0	4.0	195.0	205.0		4.15	2.50		265.0	325		55.0	1590	745
202	5.00		214.0		14.2	14.0	4.0	210.0	208.0	+0.72	5.15	3.00	9.0	321.0	625	4.0	92.5	1930	1432
205	5.00		217.0		14.2	14.0	4.0	225.0	211.0		5.15	3.00		326.0	616		91.5	1960	1411
207	5.00		217.0		14.2	14.0	4.0	225.0	213.0		5.15	3.00		329.0	610		90.0	1979	1399
208	5.00		222.0		14.2	14.0	4.0	270.0	214.0		5.15	3.00		331.0	607		90.0	1990	1392
210	5.00		222.0		14.2	14.0	4.0	270.0	216.0		5.15	3.00		333.0	601		89.5	2002	1378
212	5.00		222.0		14.2	14.0	4.0	270.0	218.0		5.15	3.00		337.0	596	4.0	88.5	2025	1367
215	5.00		227.0		14.2	14.0	4.0	300.0	221.0		5.15	3.00		341.0	586		87.0	2050	1343
217	5.00		227.0		14.2	14.0	4.0	300.0	223.0		5.15	3.00		345.0	581		86.0	2072	1331
218	5.00		232.0		14.2	14.0	4.0	315.0	224.0		5.15	3.00		346.0	580		86.0	2080	1329
220	5.00		232.0		14.2	14.0	4.0	315.0	226.0		5.15	3.00		349.0	574		85.0	2095	1316
222	5.00		232.0		14.2	14.0	4.0	315.0	228.0		5.15	3.00		353.0	568	4.0	84.0	2120	1303
225	5.00		237.0		14.2	14.0	4.0	323.0	231.0		5.15	3.00		357.0	560		83.0	2145	1283
227	5.00		237.0		14.2	14.0	4.0	323.0	233.0		5.15	3.00		361.0	555		82.0	2170	1271
228	5.00		242.0		14.2	14.0	4.0	330.0	234.0		5.15	3.00		362.0	554		82.0	2175	1268
230	5.00		242.0		14.2	14.0	4.0	330.0	236.0		5.15	3.00		365.0	549		81.0	2196	1259



DIN 472



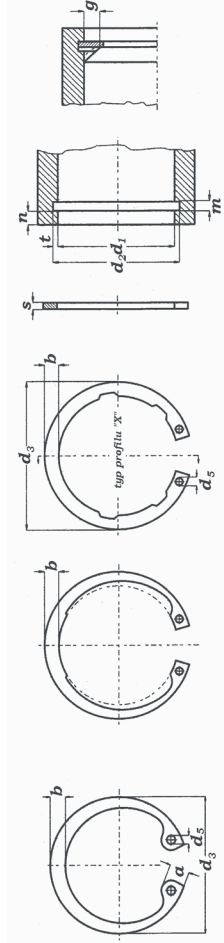
**industrial - inox**

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# PIERŚCIENIE OSADCZE DIN 472

d <sub>1</sub>	C										D A N E								
	s	Δ	d <sub>3</sub>	Δ	α max.	b ≈	d <sub>5 min.</sub>	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)
232	5.00		242.0		14.2	14.0	4.0		238		5.15	3.00	9.0	369	544	4.0	80.50	2215	1246
235	5.00		247.0		14.2	14.0	4.0		241		5.15	3.00		373	536		79.50	2240	1229
237	5.00		247.0		14.2	14.0	4.0		243	+0.72	5.15	3.00		376	531		79.00	2260	1217
238	5.00		252.0		14.2	14.0	4.0		244		5.15	3.00		378	530		79.00	2270	1214
240	5.00		252.0		14.2	14.0	4.0		246		5.15	3.00		380	525		77.50	2285	1204
242	5.00		252.0		14.2	14.0	4.0		248		5.15	3.00	9.0	385	521	4.0	77.00	2310	1194
245	5.00		257.0		14.2	14.0	4.0		251		5.15	3.00		389	514		76.50	2335	1178
247	5.00		257.0		14.2	14.0	4.0		253		5.15	3.00		392	509		76.00	2365	1167
248	5.00		262.0		14.2	14.0	4.0		254		5.15	3.00		394	507		75.50	2365	1163
250	5.00		262.0		14.2	14.0	4.0		256		5.15	3.00		396	504		75.00	2380	1155
252	5.00		262.0		14.2	16.0	5.0		260		5.15	4.00	12.0	535	557	4.0	83.00	3215	1277
255	5.00		270.0		16.2	16.0	5.0		263		5.15	4.00		541	549		81.50	3250	1259
257	5.00		270.0		16.2	16.0	5.0		265		5.15	4.00		546	545		81.00	3280	1249
258	5.00		275.0		16.2	16.0	5.0		266		5.15	4.00		548	543		80.50	3290	1244
260	5.00		275.0		16.2	16.0	5.0		268		5.15	4.00		553	538		80.00	3320	1234
262	5.00		275.0		16.2	16.0	5.0		270		5.15	4.00	12.0	556	535	4.0	79.00	3340	1227
265	5.00		280.0	+2.00	16.2	16.0	5.0		273		5.15	4.00		563	528		78.50	3380	1210
267	5.00		280.0	-0.81	16.2	16.0	5.0		275		5.15	4.00		566	524		78.00	3400	1201
268	5.00		285.0		16.2	16.0	5.0		276	+0.81	5.15	4.00		570	522		77.50	3420	1196
270	5.00		285.0		16.2	16.0	5.0		278		5.15	4.00		573	518		77.00	3440	1188
272	5.00		285.0		16.2	16.0	5.0		280		5.15	4.00	12.0	577	515	4.0	76.50	3465	1180
275	5.00		290.0		16.2	16.0	5.0		283		5.15	4.00		585	509		75.50	3510	1167
277	5.00		290.0		16.2	16.0	5.0		285		5.15	4.00		587	505		75.00	3525	1158
278	5.00		295.0		16.2	16.0	5.0		286		5.15	4.00		590	504		75.00	3540	1154
280	5.00		295.0		16.2	16.0	5.0		288		5.15	4.00		593	499		74.00	3560	1145
282	5.00		295.0		16.2	16.0	5.0		290		5.15	4.00	12.0	599	497	4.0	74.00	3595	1138
285	5.00		300.0		16.2	16.0	5.0		293		5.15	4.00		605	491		73.00	3630	1124
287	5.00		300.0		16.2	16.0	5.0		295		5.15	4.00		610	487		72.00	3660	1117
288	5.00		305.0		16.2	16.0	5.0		296		5.15	4.00		611	485		72.00	3670	1111
290	5.00		305.0		16.2	16.0	5.0		298		5.15	4.00		615	482		71.50	3695	1104
292	5.00		305.0		16.2	16.0	5.0		300		5.15	4.00	12.0	620	479	4.0	71.00	3720	1098
295	5.00		310.0		16.2	16.0	5.0		303		5.15	4.00		625	474		70.50	3755	1087
297	5.00		310.0		16.2	16.0	5.0		305		5.15	4.00		630	471		70.50	3780	1079
298	5.00		315.0		16.2	16.0	5.0		306		5.15	4.00		631	469		69.50	3790	1075
300	5.00		315.0		16.2	16.0	5.0		308		5.15	4.00		636	466		69.00	3820	1068



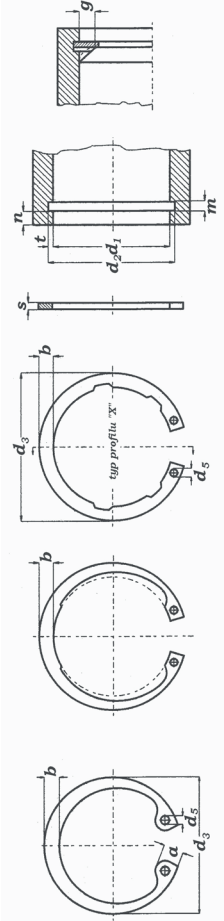
DIN 472

**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	D										A										N										E									
	sS	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)																					
305	6.00		322.0		20.0	6.0	755	315	+0.81	6.20	5.00	15.0	810	961	5.0	114.00	4860	2202																						
310	6.00		327.0		20.0	6.0	770	320		6.20	5.00		823	947		113.00	4940	2169																						
315	6.00		332.0		20.0	6.0	785	325		6.20	5.00		837	934		111.00	5027	2140																						
320	6.00		337.0		20.0	6.0	800	330		6.20	5.00		850	919		109.00	5100	2105																						
325	6.00		342.0		20.0	6.0	810	335		6.20	5.00		864	906		108.00	5184	2076																						
330	6.00		347.0		20.0	6.0	820	340		6.20	5.00	15.0	876	894	5.0	106.00	5260	2048																						
335	6.00		352.0		20.0	6.0	830	345		6.20	5.00		890	880		105.00	5341	2017																						
340	6.00		357.0	+2.00	20.0	6.0	840	350		6.20	5.00		903	869		104.00	5420	1991																						
345	6.00		362.0	-0.90	20.0	6.0	855	355		6.20	5.00		916	857		102.00	5498	1964																						
350	6.00		367.0		20.0	6.0	870	360	+0.89	6.20	5.00		929	846		101.00	5575	1938																						
355	6.00		372.0		20.0	6.0	880	365		6.20	5.00	15.0	942	834	5.0	99.00	5655	1910																						
360	6.00		377.0		20.0	6.0	890	370		6.20	5.00		955	823		98.00	5730	1886																						
365	6.00		382.0		20.0	6.0	906	375		6.20	5.00		968	813		97.00	5812	1862																						
370	6.00		387.0		20.0	6.0	920	380		6.20	5.00		981	803		95.00	5890	1839																						
375	6.00		392.0		20.0	6.0	932	385		6.20	5.00		994	793		94.00	5969	1817																						
380	6.00		397.0		20.0	6.0	940	390		6.20	5.00	15.0	1008	784	5.0	93.00	6050	1796																						
385	6.00		402.0		20.0	6.0	950	395		6.20	5.00		1021	774		92.00	6126	1774																						
390	6.00	-0.15	407.0		20.0	6.0	960	400		6.20	5.00		1033	764		91.00	6200	1751																						
395	6.00		412.0		20.0	6.0	972	405		6.20	5.00		1047	756		90.00	6283	1732																						
400	6.00		417.0		20.0	6.0	980	410		6.20	5.00		1060	746		89.00	6360	1710																						
410	7.00		430.0		26.0	6.0	1380	422		7.20	6.00	18.0	1307	1512	6.0	150.00	7842	3463																						
420	7.00		440.0	+2.00	26.0	6.0	1410	432		7.20	6.00		1338	1480		147.00	8030	3391																						
430	7.00		450.0	-1.00	26.0	6.0	1440	442		7.20	6.00		1369	1446		144.00	8219	3312																						
440	7.00		460.0		26.0	6.0	1470	452		7.20	6.00		1401	1418		141.00	8407	3248																						
450	7.00		470.0		26.0	6.0	1510	462		7.20	6.00		1431	1388		138.00	8590	3180																						
460	7.00		480.0		26.0	6.0	1550	472		7.20	6.00	18.0	1464	1360	6.0	135.00	8784	3116																						
470	7.00		490.0		26.0	6.0	1595	482	+1.00	7.20	6.00		1495	1330		132.00	8973	3048																						
480	7.00		500.0		26.0	6.0	1640	492		7.20	6.00		1526	1306		130.00	9161	2991																						
490	7.00		510.0		26.0	6.0	1685	502		7.20	6.00		1558	1280		127.00	9349	2931																						
500	7.00		520.0		26.0	6.0	1730	512		7.20	6.00		1588	1256		125.00	9530	2878																						
510	8.00		535.0	+3.00	26.0	6.0	2250	524		8.20	7.00	21.0	1894	1834	7.0	156.00	11369	4201																						
520	8.00		545.0	-1.50	26.0	6.0	2290	534		8.20	7.00		1931	1802		153.00	11589	4128																						
530	8.00		555.0		26.0	6.0	2335	544		8.20	7.00		1968	1768		150.00	11810	4049																						
540	8.00		565.0		26.0	6.0	2380	554		8.20	7.00		2004	1738		148.00	12029	3981																						
550	8.00		575.0		26.0	6.0	2430	564		8.20	7.00		2014	1711		145.00	12250	3919																						



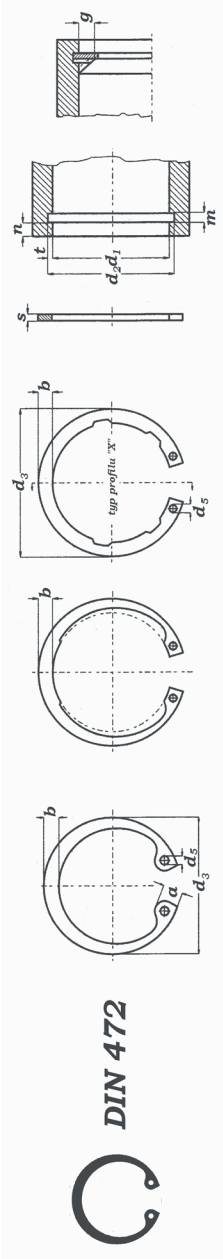
DIN 472

**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	DIN 472										D A N E								
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)
560	8.00		585.0			26.0	6.0	2495	574		8.20	7.00	21.0	2078	1682	7.0	143	12469	3852
570	8.00		595.0			26.0	6.0	2560	584		8.20	7.00		2114	1650		141	12689	3790
580	8.00	-0.15	605.0	+3.00		26.0	6.0	2625	594		8.20	7.00		2151	1627		138	12909	3728
590	8.00		615.0	-1.50		26.0	6.0	2700	604		8.20	7.00		2188	1601		136	13129	3668
600	8.00		625.0			26.0	6.0	2770	614		8.20	7.00		2221	1571		134	13330	3598
650	9.00		680.0			34.0	6.0	3600	666	+1.00	9.30	8.00	24.0	2753	2654	7.0	226	16520	6078
700	9.00		730.0			34.0	6.0	4120	716		9.30	8.00		2966	2471		210	17800	5661
750	9.00		785.0			34.0	9.0	4540	768		9.30	9.00	27.0	3566	2310		196	21400	5285
800	9.00		835.0			34.0	9.0	5450	818		9.30	9.00		3800	2176		184	22800	4980
850	9.00	-0.20	890.0	+4.00		34.0	9.0	5990	870		9.30	10.00	30.0	4500	2045		173	27000	4680
900	9.00		940.00	-2.00		34.0	9.0	6740	920		9.30	10.00	30.0	4766	1938	7.0	164	28600	4435
950	9.00		1000.00			34.0	9.0	7930	972		9.30	11.00	33.0	5608	1840		156	33650	4210
1000	9.00		1050.00			34.0	9.0	8880	1022		9.30	11.00		5825	1752		148	34950	4010

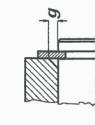
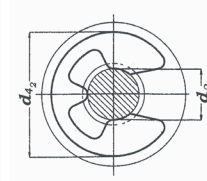
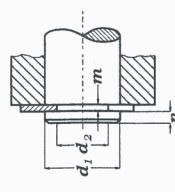
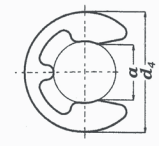


DIN 472



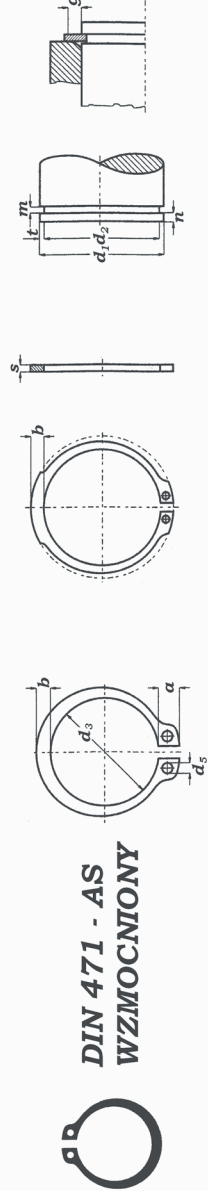
# PLYTKI OSADCZE DIN 6799

d <sub>2</sub>	d <sub>1</sub>		W					DANE					n <sub>det</sub> x1000 (rpm)						
	from	to	s	Δ	d <sub>4</sub>	α	Δ	weight	d <sub>2</sub>	Δ	m min.	d <sub>42</sub>		n	FN (kN)	d <sub>1</sub>	FR (kN)	g	FRg (kN)
	1.2	1.4	2.0	0.30		2.90	1.01		0.009	1.2	0.34	3.0		0.6	0.04	1.5	0.12	0.4	0.06
1.5	2.0	2.5	0.40		3.90	1.28		0.021	1.5	0.44	4.0	0.8	0.07	2.0	0.22	0.6	0.11	42	
1.9	2.5	3.0	0.50		4.40	1.61	±0.04	0.040	1.9	0.54	4.5	1.0	0.10	2.5	0.35	0.7	0.17	40	
2.3	3.0	4.0	0.60		5.90	1.94		0.069	2.3	0.64	6.0	1.5	0.15	3.0	0.50	0.9	0.24	38	
3.2	4.0	5.0	0.60	±0.02	6.90	2.70		0.088	3.2	0.64	7.0	2.0	0.22	4.0	0.65	1.0	0.32	35	
4.0	5.0	7.0	0.70		8.85	3.34		0.158	4.0	0.74	9.0	1.2	0.25	5.0	0.95	1.0	0.47	32	
5.0	6.0	8.0	0.70		10.85	4.11	±0.048	0.236	5.0	0.74	11.0	1.5	0.30	7.0	1.15	1.1	0.60	28	
6.0	7.0	9.0	0.70		11.80	5.26		0.255	6.0	0.74	12.0	1.5	0.30	8.0	1.35	1.1	0.70	25	
7.0	8.0	11.0	0.90		13.80	5.84		0.474	7.0	0.94	14.0	1.5	0.40	9.0	1.80	1.3	1.00	22	
8.0	9.0	12.0	1.00		15.75	6.52	±0.058	0.660	8.0	1.05	16.0	1.8	0.50	10.0	2.50	1.5	1.25	20	
9.0	10.0	14.0	1.10		18.20	7.63		1.000	9.0	1.15	18.5	2.0	0.60	11.0	3.00	1.6	1.50	17	
10.0	11.0	15.0	1.20		19.70	8.32		1.120	10.0	1.25	20.0	2.0	0.70	12.0	3.50	1.8	1.75	15	
12.0	13.0	18.0	1.30	±0.03	22.70	10.45		1.770	12.0	1.35	23.0	2.5	0.80	15.0	4.70	1.9	2.30	13	
15.0	16.0	24.0	1.50		28.70	12.61	±0.070	3.370	15.0	1.55	29.0	3.0	1.00	20.0	7.80	2.2	3.30	11	
19.0	20.0	31.0	1.75		36.50	15.92		6.420	19.0	1.80	37.0	3.5	1.30	25.0	11.00	2.5	3.60	8	
24.0	25.0	38.0	2.00		43.50	21.88	±0.084	8.550	24.0	2.05	44.0	4.0	1.60	30.0	15.00	3.0	4.00	6	



# PIERŚCIEŃ DIN 471 AS - WZMOCNIONE

d <sub>1</sub>	DIN 471 AS - WZMOCNIONE										D A N E									
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ	(kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B
12	1.50		11.0		3.4	1.8	1.7	0.75	11.5		1.60	0.25	0.7	1.53	11.3	1.0	4.5	9.2	2.25	75
15	1.50		13.7		4.7	2.4	2.0	1.20	14.2		1.60	0.40	1.2	3.20	15.5		4.5	18.3	2.25	57
15	1.50		13.8		3.7	2.0	1.7	1.20	14.2		1.60	0.40		3.20	15.5		4.5	18.3	2.25	50
16	1.50		14.6	+0.10	4.8	2.5	2.0	1.20	15.1		1.60	0.45	1.3	3.64	16.7		4.5	21.9	2.25	44
16	1.50		14.7	-0.36	3.6	2.3	1.7	1.20	15.2	-0.11	1.60	0.40	1.2	3.26	16.7		4.5	19.6	2.25	48
17	1.50		15.7		3.8	2.3	1.7	1.24	16.0		1.60	0.50	1.5	4.32	18.0	1.0	4.5	25.9	2.25	46
18	1.50	-0.06	16.3		3.9	2.4	2.0	1.54	16.8		1.60	0.60	1.8	5.50	26.6	1.5	5.8	33.0	1.56	43
19	1.50		17.5		4.0	2.5	2.0	1.45	17.8		1.60	0.60		5.78	26.6		5.9	34.7	1.56	28
20	1.75		18.3		5.5	3.0	2.5	2.31	18.8		1.85	0.60		6.05	36.3		8.2	36.6	2.12	36
20	1.75		18.4		4.1	2.6	2.0	2.25	18.9		1.85	0.55	1.6	5.60	36.3		8.2	33.8	2.12	32
22	1.75		20.5		4.3	3.1	2.0	2.30	21.0	-0.15	1.85	0.50	1.5	5.60	36.0	1.5	8.1	33.8	2.12	29
22	1.75		20.3		5.9	3.2	2.0	2.40	20.8		1.85	0.60		6.70	36.0		8.1	40.6	2.12	29
23	1.75		21.3		6.6	3.2	2.4	2.60	21.8		1.85	0.60		7.04	35.2		8.1	42.2	2.12	27
24	1.75		22.0		4.3	3.2	2.0	2.70	22.7		1.85	0.65	1.9	7.95	34.2		7.6	47.7	2.12	29
25	2.00		23.0		5.6	3.4	3.0	3.40	23.7		2.15	0.65		8.30	45.0		10.3	49.7	2.78	25
25	2.00		23.0	+0.21	4.4	3.4	2.0	3.35	23.7		2.15	0.65	1.9	8.30	45.0	1.5	10.3	49.7	2.78	25
26	2.00		23.6	-0.42	6.6	3.3	2.5	3.65	24.4		2.15	0.80		10.70	44.0		10.0	63.0	2.73	27
27	2.00		24.7		5.6	3.4	3.0	3.85	25.5		2.15	0.75	2.3	10.30	45.5		10.6	62.0	2.78	25
28	2.00		25.9		6.5	3.5	2.5	3.90	26.6	-0.21	2.15	0.70	2.1	10.00	57.0		13.4	60.0	1.78	22
28	2.00		25.5		5.9	3.5	3.0	3.90	26.4		2.15	0.80	2.4	10.40	57.0		13.4	68.4	1.78	22
29	2.00		26.9		5.7	3.8	2.0	4.30	27.6		2.15	0.70	2.1	10.40	56.5	1.5	13.3	62.2	1.78	22
29	2.00		26.9		5.7	3.8	2.0	4.30	27.6		2.15	0.70		10.40	56.5		13.3	62.2	1.78	22
30	2.00		27.9		6.3	4.1	3.0	5.00	28.6		2.50	0.85	2.5	12.90	57.0		13.6	64.4	1.78	21
30	2.00		27.6		5.1	3.7	2.0	4.50	28.3		2.15	0.85	2.4	13.80	55.5	2.0	10.0	83.0	1.78	18
32	2.00		29.6		6.3	4.1	3.0	5.40	30.3		2.15	0.85		14.30	56.0	2.0	10.1	86.0	1.78	18
33	2.00		30.5		6.7	4.0	2.5	5.20	31.3		2.15	0.85	2.5	14.30	56.0		15.6	99.0	2.78	18
34	2.50		31.3		5.4	4.2	3.0	6.80	32.1		2.65	0.95	2.8	16.40	87.0		15.6	99.0	2.78	18
34	2.50		31.3		6.3	4.2	3.0	6.90	32.1		2.65	0.95		16.40	87.0		15.6	99.0	2.78	18
35	2.50		32.0	+0.25	5.5	4.1	3.0	7.00	32.8		2.65	1.10	3.3	19.50	86.0		15.4	117.0	2.78	17
35	2.50		32.2	-0.50	6.3	4.2	3.0	7.10	33.0		2.65	1.00	3.0	17.80	86.0		15.4	107.0	2.78	17
36	2.50		33.0		5.5	4.2	3.0	7.50	33.8	-0.25	2.65	1.10	3.3	20.10	101.5	2.0	18.3	121.0	2.04	16
38	2.50		35.0		5.7	4.5	2.5	8.00	35.8		2.65	1.10		21.20	101.0		18.6	127.0	2.04	15
40	2.50		36.5		6.3	4.4	2.5	8.20	37.5		2.65	1.25	3.8	25.30	104.0		19.3	152.0	2.04	14
42	2.50		38.5	+0.39	6.5	4.5	2.5	9.60	39.5		2.65	1.25		26.70	102.0		19.2	160.0	2.04	13
44	2.50		40.5	-0.90	6.5	4.5	2.5	10.40	41.5		2.65	1.25		27.90	101.0		19.1	168.0	2.04	12



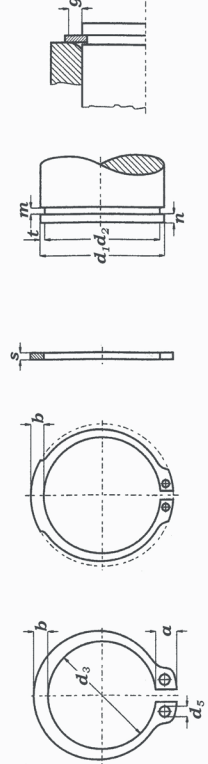
DIN 471 - AS  
WZMOCNIONY



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# PIERŚCIEŃ DIN 471 AS - WZMOCNIONE

d <sub>1</sub>	Ø										H					n <sub>det</sub> x100 rpm				
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ	(kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)		FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )
45	2.50	-0.07	41.5	+0.39	6.7	4.7	2.5	10.80	42.5	-0.25	2.65	1.25	3.8	28.60	100.0	2.0	19.1	172.0	2.04	11
48	2.50	.....	44.5	-0.90	6.9	5.0	2.5	12.20	45.5	.....	2.65	1.25	4.5	30.70	101.0	.....	19.5	184.0	2.04	10
50	3.00	.....	45.8	.....	6.9	5.1	2.5	14.80	47.0	.....	3.15	1.50	.....	38.20	165.0	.....	32.4	229.0	2.25	11
52	3.00	.....	47.8	.....	7.0	5.2	2.5	15.40	49.0	.....	3.15	1.50	.....	39.70	165.0	.....	26.0	238.0	2.25	10
55	3.00	-0.08	50.8	.....	7.2	5.4	2.5	17.00	52.0	.....	3.15	1.50	.....	42.00	161.0	.....	25.6	252.0	2.25	9
58	3.00	.....	53.8	.....	7.3	5.6	2.5	19.40	55.0	.....	3.15	1.50	.....	44.30	160.0	.....	26.0	266.0	2.25	8
60	3.00	.....	55.8	.....	7.4	5.8	2.5	20.00	57.0	.....	3.15	1.50	.....	46.00	156.0	.....	25.4	276.0	2.25	8
65	4.00	.....	60.8	+0.46	7.8	6.3	3.0	31.00	62.0	-0.30	4.15	1.50	.....	53.80	346.0	.....	58.0	299.0	2.56	7
70	4.00	.....	65.5	-1.10	8.1	6.6	3.0	32.20	67.0	.....	4.15	1.50	.....	53.80	343.0	.....	59.0	323.0	2.56	7
75	4.00	.....	70.5	.....	8.4	7.0	3.0	39.80	72.0	.....	4.15	1.50	.....	57.60	333.0	.....	58.0	346.0	2.56	6
80	4.00	.....	74.5	.....	8.6	7.4	3.0	42.40	76.5	.....	4.15	1.75	.....	71.60	328.0	.....	50.0	430.0	2.56	6
85	4.00	-0.10	79.5	.....	8.7	7.8	3.5	47.00	81.5	.....	4.15	1.75	.....	76.30	383.0	.....	59.4	458.0	1.78	6
90	4.00	.....	84.5	.....	8.8	8.2	3.5	55.60	86.5	.....	4.15	1.75	.....	80.80	386.0	.....	61.0	485.0	1.78	5
95	4.00	.....	89.5	.....	9.4	8.6	3.5	61.20	91.5	-0.35	4.15	1.75	.....	85.50	378.0	.....	52.0	513.0	1.78	5
100	4.00	.....	94.5	.....	9.6	9.0	3.5	72.00	96.5	.....	4.15	1.75	.....	90.00	368.0	.....	51.6	540.0	1.78	4
105	5.00	.....	98.0	+0.54	10.1	9.3	4.0	100.00	101.0	.....	5.15	2.00	.....	107.00	734.0	.....	106.0	646.0	1.56	5
110	5.00	.....	103.0	-1.30	10.1	9.6	4.0	102.00	106.0	-0.54	5.15	2.00	.....	113.00	712.0	.....	105.0	678.0	1.56	4
115	5.00	.....	108.0	.....	10.6	9.8	4.0	105.00	111.0	.....	5.15	2.00	.....	118.00	663.0	.....	102.0	709.0	1.56	4
120	5.00	.....	113.0	.....	11.0	10.2	4.0	107.00	116.0	.....	5.15	2.00	.....	123.00	661.0	.....	101.0	741.0	1.56	4
125	5.00	.....	118.0	.....	11.4	10.4	4.0	112.00	121.0	.....	5.15	2.00	.....	128.00	642.0	.....	88.0	772.0	1.56	3
130	5.00	.....	123.0	.....	11.6	10.7	4.0	125.00	126.0	.....	5.15	2.00	.....	134.00	617.0	.....	86.0	804.0	1.56	3
135	5.00	.....	128.0	.....	11.8	11.0	4.0	130.00	131.0	.....	5.15	2.00	.....	139.00	680.0	.....	86.0	835.0	1.56	3
140	5.00	.....	133.0	.....	12.0	11.2	4.0	137.00	136.0	.....	5.15	2.00	.....	144.00	588.0	.....	84.0	867.0	1.56	3
145	5.00	.....	138.0	.....	12.2	11.5	4.0	143.00	141.0	.....	5.15	2.00	.....	149.00	572.0	.....	83.0	898.0	1.56	3
150	5.00	-0.12	142.0	.....	13.0	11.8	4.0	150.00	145.0	.....	5.15	2.50	.....	193.00	558.0	.....	82.0	1158.0	1.56	2
155	5.00	.....	146.0	+0.63	13.0	12.0	4.0	169.00	150.0	-0.63	5.15	2.50	.....	199.00	550.0	.....	81.0	1198.0	1.56	3
160	5.00	.....	151.0	-1.50	13.3	12.2	4.0	187.00	155.0	.....	5.15	2.50	.....	206.00	546.0	.....	81.0	1237.0	1.56	3
165	5.00	.....	155.5	.....	14.2	12.5	4.0	200.00	160.0	.....	5.15	2.50	.....	212.00	538.0	.....	64.0	1275.0	1.56	3
170	5.00	.....	160.5	.....	14.2	12.9	4.0	213.00	165.0	.....	5.15	2.50	.....	219.00	546.0	.....	65.0	1315.0	1.56	2
175	5.00	.....	165.5	.....	14.2	12.9	4.0	225.00	170.0	.....	5.15	2.50	.....	225.00	530.0	.....	64.0	1353.0	1.56	2
180	5.00	.....	170.5	.....	14.2	13.5	4.0	238.00	175.0	.....	5.15	2.50	.....	232.00	538.0	.....	64.0	1393.0	1.56	2
185	5.00	.....	175.5	.....	14.2	13.5	4.0	250.00	180.0	.....	5.15	2.50	.....	238.00	525.0	.....	63.0	1492.0	1.56	2
190	5.00	.....	180.5	.....	14.2	14.0	4.0	263.00	185.0	.....	5.15	2.50	.....	245.00	521.0	.....	63.0	1471.0	1.56	2
195	5.00	.....	185.5	+0.72	14.2	14.0	4.0	275.00	190.0	-0.72	5.15	2.50	.....	251.00	507.0	.....	61.0	1511.0	1.56	2
200	5.00	.....	190.5	-1.70	14.2	14.0	4.0	288.00	195.0	.....	5.15	2.50	.....	258.00	498.0	.....	59.0	1550.0	1.56	2



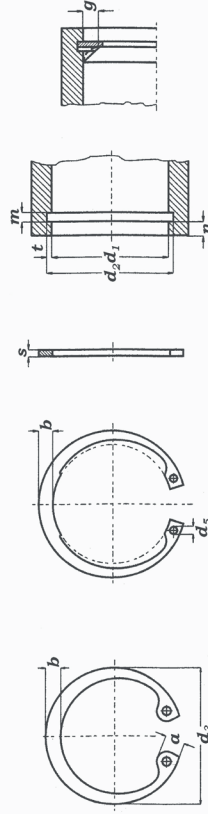
**industrial - inox**

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kom. 601 53 66, 504 25 99 11, e-mail: industrial@segery.com.pl www.segery.eu



# PIERŚCIEŃ DIN 472 JS - WZMOCNIONE

d <sub>1</sub>	DIN 472 JS - WZMOCNIONE										D A N E								
	s	Δ	d <sub>3</sub>	Δ	α max.	b ≈	d <sub>5</sub> min.	Δ	kg/1000	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )
20	1.50		21.5		4.1	2.4	2.0	1.4	21.0	+0.15	1.60	0.50	1.5	5.4	16.2	1.0	5.8	32	2.25
22	1.50		23.5		4.8	2.8	2.0	1.9	23.0		1.60	0.50	1.5	5.9	18.0		6.1	35	2.25
24	1.50		25.9	+0.42	4.9	3.0	2.0	2.0	25.2		1.60	0.60	1.8	7.7	21.7		7.2	46	1.56
25	1.50		26.9	-0.21	4.9	3.1	2.0	2.1	26.2		1.60	0.60	1.8	8.0	22.8		7.3	48	1.56
26	1.50		27.9		5.1	3.1	2.0	2.3	27.2	+0.21	1.60	0.60	1.8	8.4	21.6		7.2	50	1.56
27	1.50		29.1		5.1	3.2	2.0	2.4	28.4		1.60	0.70	2.1	10.1	20.8	1.0	7.0	60	1.56
28	1.50	-0.06	30.1		5.1	3.2	2.0	2.5	29.4		1.60	0.70	2.1	10.5	20.8		7.0	63	1.56
30	1.50		32.1		5.1	3.3	2.0	2.7	31.4		1.60	0.70	2.6	11.3	21.4		7.2	67	1.56
32	1.50		34.4	+0.50	5.4	3.4	2.0	2.9	33.7		1.60	0.85	2.6	14.6	21.4		7.3	87	1.56
34	1.75		36.5	-0.25	5.6	3.7	2.5	4.1	35.7		1.85	0.85	3.0	15.4	35.6	1.5	8.6	92	1.36
35	1.75		37.8		5.6	3.8	2.5	4.5	37.0		1.85	1.00	3.0	18.8	36.6	1.5	8.7	113	1.36
37	1.75		39.8		5.8	3.9	2.5	4.7	39.0	+0.25	1.85	1.00	3.0	19.8	36.8		8.8	119	1.36
38	1.75		40.8		5.8	3.9	2.5	4.8	40.0		1.85	1.00	3.8	22.5	38.3		9.1	123	1.36
40	2.00		43.5		5.8	3.9	2.5	5.1	42.5		2.15	1.25	3.8	27.0	58.4	2.0	10.9	162	1.31
42	2.00		45.5	+0.90-0.39	5.9	4.1	2.5	5.6	44.5		2.15	1.25	3.8	28.4	58.5		11.0	170	1.31
45	2.00		48.5		6.2	4.3	2.5	6.3	47.5		2.15	1.25	3.8	30.2	56.5	2.0	10.7	181	1.31
47	2.00	-0.07	50.5		6.4	4.4	2.5	6.7	49.5		2.15	1.25	4.5	31.4	57.0		10.8	189	1.31
50	2.50		54.2		6.5	4.6	2.5	8.8	53.0		2.65	1.50	4.5	40.5	95.5		19.0	243	1.57
52	2.50		56.2		6.7	4.7	2.5	9.9	55.0		2.65	1.50	4.5	42.0	94.6		18.8	252	1.57
55	2.50		59.2		6.8	5.0	2.5	10.4	58.0		2.65	1.50	4.5	44.4	94.7		19.6	266	1.57
60	3.00		64.2		7.3	5.4	2.5	15.9	63.0		3.15	1.50	4.5	48.3	137.0	2.0	29.2	290	2.25
62	3.00	+1.10	66.2		7.3	5.5	2.5	16.1	65.0		3.15	1.50	4.5	49.8	137.0		29.2	299	2.25
64	3.00	-0.46	68.2		7.4	5.6	3.0	16.5	67.0	+0.30	3.15	1.50	4.5	51.4	137.0		30.0	308	2.25
65	3.00		69.2		7.6	5.8	3.0	16.6	68.0		3.15	1.50	4.5	51.8	174.0	2.5	30.6	313	1.44
68	3.00		72.5		7.8	6.1	3.0	17.2	71.0		3.15	1.50	4.5	54.5	174.0		30.0	327	1.44
70	3.00		74.5		7.8	6.2	3.0	18.0	73.0		3.15	1.50	4.5	56.2	171.0	2.5	30.3	337	1.44
72	3.00		76.5		7.8	6.4	3.0	21.7	75.0		3.15	1.50	4.5	58.0	172.0		30.3	346	1.44
75	3.00		79.5		7.8	6.6	3.0	22.6	78.0		3.15	1.50	4.5	60.0	170.0		30.3	360	1.44
80	4.00		85.5		8.5	7.0	3.0	33.2	83.5		4.15	1.75	5.3	74.6	308.0		56.0	448	2.56
85	4.00		90.5		8.6	7.2	3.5	33.8	88.5		4.15	1.75	5.3	79.5	358.0	3.0	55.0	477	1.78
90	4.00	-0.10	95.5	+1.30	8.6	7.6	3.5	41.3	93.5	+0.35	4.15	1.75	5.3	84.0	354.0	3.0	56.0	504	1.78
95	4.00		100.5	-0.54	8.8	8.1	3.5	46.7	98.5		4.15	1.75	6.0	88.6	347.0		56.0	532	1.78
100	4.00		105.5		9.2	8.4	3.5	50.7	103.5		4.15	1.75	6.0	93.1	335.0		55.0	559	1.78
105	5.00		112.0		10.2	8.7	4.0	70.0	109.0		5.15	2.00	6.0	112.0	681.0		114.0	672	1.56
110	5.00		117.0		10.4	9.0	4.0	81.0	114.0	+0.54	5.15	2.00	6.0	117.0	648.0		111.0	704	1.56



**DIN 472 - JS**  
wzmocniony

**industrial - inox**

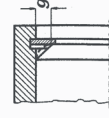
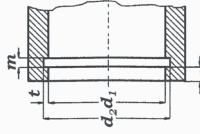
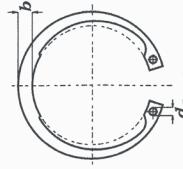
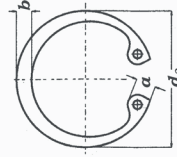
ul. Władysława Łokietka 167B/a, 31-263 Kraków, tel./fax: 012 415 15 01  
kom. 601 53 66, 504 25 99 11, e-mail: industrial@segegy.com.pl www.segegy.eu

# PIERŚCIENIE DIN 472 JS - WZMOCNIONE


d <sub>1</sub>	C										H					B	
	s	Δ	d <sub>3</sub>	Δ	α max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)		AN (mm <sup>2</sup> )
115	5.00		122.0		10.5	9.3	4.0	94.0	5.15	2.00	6.0	122.0	639.0	3.0	111.0	735	1.56
120	5.00		127.0		11.2	9.7	4.0	98.0	5.15	2.00		127.0	618.0		109.0	767	1.56
125	5.00		132.0		11.2	10.0	4.0	102.0	5.15	2.00		132.0	602.0		109.0	797	1.56
130	5.00		137.0		11.2	10.2	4.0	105.0	5.15	2.00		138.0	584.0		108.0	829	1.56
135	5.00		142.0		11.2	10.5	4.0	107.0	5.15	2.00		143.0	559.0		105.0	860	1.56
140	5.00		147.0	+1.50	11.2	10.7	4.0	110.0	5.15	2.00	6.0	148.0	546.0	3.0	104.0	892	1.56
145	5.00		152.0	-0.63	11.2	10.9	4.0	116.0	5.15	2.00		153.0	525.0		102.0	923	1.56
150	5.00		158.0		12.2	11.2	4.0	131.0	5.15	2.50	7.5	191.0	509.0	3.5	100.0	1198	1.56
155	5.00		164.0		12.2	11.4	4.0	134.0	5.15	2.50		206.0	506.0		86.0	1237	1.56
160	5.00		169.0		13.2	11.6	4.0	138.0	5.15	2.50		212.0	501.0		85.0	1275	1.56
165	5.00	-0.12	174.5		14.2	11.8	4.0	156.0	5.15	2.50	7.5	219.0	498.0	3.5	84.0	1315	1.56
170	5.00		179.5		14.2	12.2	4.0	175.0	5.15	2.50		225.0	545.0		92.0	1355	1.56
175	5.00		184.5		14.2	12.7	4.0	188.0	5.15	2.50		232.0	548.0		92.0	1393	1.56
180	5.00		189.5		14.2	13.2	4.0	207.0	5.15	2.50		238.0	542.0		91.0	1432	1.56
185	5.00		194.5		14.2	13.7	4.0	213.0	5.15	2.50		245.0	545.0		92.0	1471	1.56
190	5.00		199.5	+1.70	14.2	13.8	4.0	219.0	5.15	2.50	7.5	251.0	531.0	3.5	90.0	1510	1.56
195	5.00		204.5	-0.72	14.2	13.8	4.0	229.0	5.15	2.50		258.0	516.0		87.0	1550	1.56
200	5.00		209.5		14.2	14.0	4.0	243.0	5.15	2.50		265.0	508.0		86.0	1565	1.56

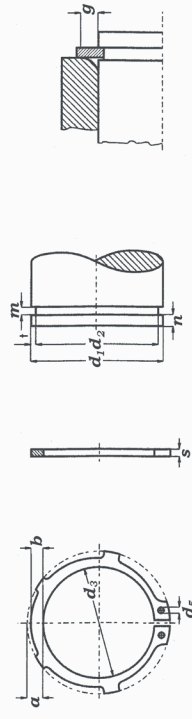


DIN 472 - JS  
wzmocniony



# PIERŚCIEŃIE AK - DIN 983

d <sub>1</sub>	D A N E										n <sup>det.</sup> x1000 (rpm)										
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ <sub>A</sub> (kg/1000)	d <sub>2</sub>	Δ		m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN/mm)	
16	1.00		14.7	+0.10	3.5	2.3	1.7	0.82	15.2	-0.11	1.10	0.40	1.2	3.26	7.4	1.0	2.4	19.6	21.0	4	45
17	1.00		15.7	-0.36	3.6	2.4	1.7	0.93	16.2		1.10	0.40		3.46	8.0		2.4	20.8	21.6	4	41
18	1.20		16.5		3.7	2.5	2.0	1.24	17.0		1.30	0.50	1.5	4.58	17.0	1.5	3.7	27.5	37.1	4	38
19	1.20		17.5		3.7	2.6	2.0	1.35	18.0		1.30	0.50		4.85	17.0		3.8	29.0	36.4	4	33
20	1.20		18.5		3.8	2.6	2.0	1.45	19.0		1.30	0.50		5.06	17.1		3.8	30.6	36.3	4	30
22	1.20		20.5	+0.13	4.0	2.8	2.0	1.77	21.0	-0.15	1.30	0.50	1.5	5.65	16.9	1.5	3.8	33.8	35.4	4	26
23	1.20		21.5	-0.42	4.1	2.9	2.0	1.84	22.0		1.30	0.50		5.90	16.6		3.8	35.4	34.7	4	24
24	1.20		22.2		4.2	3.0	2.0	1.98	22.9		1.30	0.55	1.6	6.75	16.1		3.6	40.5	33.4	4	26
25	1.20		23.2		4.3	3.0	2.0	2.12	23.9		1.30	0.55		7.05	16.2		3.7	42.3	33.4	4	24
26	1.20		24.2		4.4	3.1	2.0	2.18	24.9		1.30	0.55		7.34	16.1		3.7	44.0	32.9	4	22
28	1.50	-0.06	25.9	+0.21	4.5	3.3	2.0	3.15	26.6		1.60	0.70	2.1	10.00	32.1	1.5	7.5	60.0	65.0	4	20
29	1.50		26.9	-0.42	4.7	3.4	2.0	3.35	27.6		1.60	0.70		10.30	31.8		7.4	62.2	64.0	4	19
30	1.50		27.9		4.7	3.4	2.0	3.65	28.6		1.60	0.70		10.70	32.1		7.6	64.4	64.2	4	18
32	1.50		29.6		5.0	3.6	2.5	4.00	30.3		1.60	0.85	2.5	13.80	31.2	2.0	5.5	83.1	61.8	4	16
34	1.50		31.5		5.1	3.8	2.5	4.15	32.3		1.60	0.85		14.70	31.3		5.6	88.3	61.3	4	16
35	1.50		32.2	+0.25	5.2	3.8	2.5	4.38	33.0		1.60	1.00	3.0	17.80	30.8	2.0	5.5	106.0	60.1	4	15
37	1.75		34.2	-0.50	5.4	4.0	2.5	6.30	35.0		1.85	1.00		18.80	50.0		9.1	113.0	96.4	4	13
38	1.75		35.2		5.5	4.1	2.5	6.50	36.0		1.85	1.00		19.30	49.5		9.1	116.0	95.0	4	13
40	1.75		36.5		7.2	4.2	2.5	7.00	37.5	-0.25	1.85	1.25	3.8	25.30	51.0		9.5	152.0	96.9	4	14
42	1.75		38.5		7.2	4.5	2.5	7.50	39.5		1.85	1.25		26.70	50.0		9.4	160.0	93.7	4	13
45	1.75		41.5	+0.39	7.2	4.6	2.5	8.50	42.5		1.85	1.25	3.8	28.60	49.0	2.0	9.3	172.0	91.0	4	11
47	1.75		43.5	-0.90	7.2	4.8	2.5	8.70	44.5		1.85	1.25		30.00	49.5		9.5	180.0	90.7	4	10
48	1.75		44.5		7.2	4.9	2.5	8.90	45.5		1.85	1.25		30.70	49.4		9.5	184.0	90.0	4	9
50	2.00		45.8		8.2	5.0	2.5	11.55	47.0		2.15	1.50	4.5	38.00	73.3		14.4	228.0	133.0	4	10
55	2.00		50.8		8.2	5.4	2.5	12.99	52.0		2.15	1.50		42.00	71.4	2.5	11.4	252.0	130.0	4	8
57	2.00		52.8		8.2	5.6	2.5	14.00	54.0		2.15	1.50	4.5	43.70	70.9	2.5	11.4	262.0	128.0	4	8
58	2.00		53.8		8.2	5.7	2.5	14.30	55.0		2.15	1.50		44.30	71.1		11.5	266.0	129.0	4	8
60	2.00		55.8		8.2	5.8	2.5	14.80	57.0		2.15	1.50		46.00	69.3		11.3	276.0	126.0	4	7
62	2.00		57.8	+0.46	8.2	5.9	2.5	15.90	59.0		2.15	1.50		47.50	69.3		11.4	285.0	126.0	4	7
65	2.50	-0.07	60.8	1.10	10.2	6.2	3.0	21.70	62.0	-0.30	2.65	1.50		49.80	135.0		22.7	299.0	245.0	4	6
67	2.50		62.5		10.2	6.4	3.0	22.60	64.0		2.65	1.50	4.5	51.30	136.0	2.5	23.0	308.0	245.0	4	7
68	2.50		63.5		10.2	6.5	3.0	23.50	65.0		2.65	1.50		52.20	135.0		23.0	313.0	244.0	4	7
70	2.50		65.5		10.2	6.6	3.0	25.10	67.0		2.65	1.50		53.80	134.0		23.0	323.0	241.0	4	6
75	2.50		70.5		10.2	7.0	3.0	28.20	72.0		2.65	1.50		57.60	130.0		22.8	346.0	234.0	4	6
80	2.50		74.5		10.2	7.4	3.0	30.75	76.5		2.65	1.75	5.3	71.60	128.0	3.0	19.5	430.0	236.0	4	6



AK - DIN 983

**industrial - inox**

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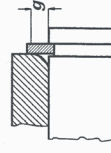
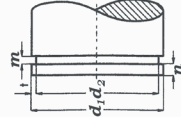
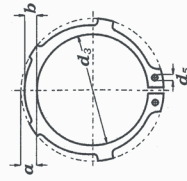


# PIERŚCIENIE AK - DIN 983

d <sub>1</sub>	D A N E																			
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	A (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN/mm)	n <sub>def.</sub> x1000 (rpm)
85	3.00	+0.46 -1.10	79.5		10.2	7.8	3.5	39.50	81.5		3.15	1.75	5.3	76.20	215.0	3.0	33.4	457.0	405.0	5
90	3.00		84.5		10.2	8.2	3.5	47.70	86.5	-0.35	3.15	1.75		80.80	217.0		34.4	485.0	401.0	5
95	3.00	-0.08	89.5		10.2	8.6	3.5	53.00	91.5		3.15	1.75		85.50	212.0	3.5	29.3	513.0	400.0	4
100	3.00		94.5		10.2	9.0	3.5	56.60	96.5		3.15	1.75		90.00	206.0		29.0	540.0	397.0	4
110	4.00	+0.54	103.0		12.2	9.6	3.5	84.60	106.0		4.15	2.00	6.0	113.00	457.0		66.9	678.0	914.0	4
120	4.00	-1.30	113.0		14.2	10.1	3.5	89.70	116.0	-0.54	4.15	2.00	6.0	123.00	424.0	3.5	64.5	741.0	882.0	4
130	4.00	-0.10	123.0		14.2	10.7	4.0	105.00	126.0		4.15	2.00		134.00	395.0	4.0	55.2	804.0	852.0	3
140	4.00		133.0		14.2	11.2	4.0	115.00	136.0	-0.63	4.15	2.00		144.00	376.0		54.4	867.0	840.0	3

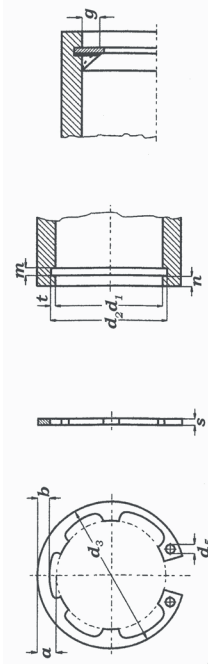


AK - DIN 983



# PIERŚCIENIE JK - DIN 984

d <sub>1</sub>	D A N E																		
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B
16	1.00		17.3		3.4	2.1	1.7	0.72	16.8	+0.11	1.10	0.40	1.2	3.40	5.5	1.0	2.5	20.6	18.4
17	1.00		18.3		3.7	2.2	1.7	0.80	17.8		1.10	0.40		3.60	6.0		2.5	21.8	18.1
18	1.00		19.5		4.1	2.3	2.0	0.99	19.0		1.10	0.50	1.5	4.80	6.5		2.6	29.0	18.2
19	1.00		20.5		3.8	2.3	2.0	0.99	20.0	+0.42	1.10	0.50		5.10	6.8		2.6	30.6	17.2
20	1.00		21.5		3.9	2.4	2.0	1.06	21.0	-0.13	1.10	0.50		5.40	7.2		2.6	32.2	16.9
21	1.00		22.5		4.0	2.4	2.0	1.17	22.0		1.10	0.50	1.5	5.70	7.6	1.0	2.6	33.8	17.2
22	1.00		23.5		4.0	2.6	2.0	1.28	23.0		1.10	0.50		5.90	8.0		2.7	35.3	17.6
23	1.20		24.6		4.1	2.6	2.0	1.48	24.1		1.30	0.55	1.6	6.80	13.8		4.5	40.7	28.8
24	1.20		25.9		4.2	2.6	2.0	1.60	25.2		1.30	0.60	1.8	7.70	13.9		4.6	46.3	28.4
25	1.20		26.9		4.4	2.8	2.0	1.72	26.2	+0.42	1.30	0.60		8.00	14.6		4.7	48.2	29.0
26	1.20		28.5		4.4	2.8	2.0	2.00	27.2	-0.21	1.30	0.60	1.8	8.40	13.8	1.0	4.6	50.1	27.8
27	1.20		29.1		4.5	2.9	2.0	2.00	28.4		1.30	0.70	2.1	10.10	13.3		4.5	60.9	26.6
28	1.20		30.1		4.9	3.0	2.0	2.10	29.4		1.30	0.70		10.50	13.3		4.5	63.1	26.3
30	1.20		32.1		4.9	3.2	2.0	2.35	31.4		1.30	0.70		11.30	13.7		4.6	67.5	26.6
31	1.20		33.4		5.0	3.2	2.5	2.42	32.7		1.30	0.85	2.5	14.10	13.8		4.7	84.8	26.8
32	1.20		34.4		5.1	3.3	2.5	2.50	33.7	+0.50	1.30	0.85	2.5	14.60	13.8	1.0	4.7	87.9	26.6
33	1.20		35.5		5.1	3.3	2.5	2.65	34.7	-0.25	1.30	0.85		15.00	14.3	1.5	4.9	90.3	27.0
34	1.50		36.5		5.3	3.4	2.5	3.80	35.7		1.60	0.85		15.40	26.2		6.3	92.6	50.0
35	1.50		37.8		5.5	3.6	2.5	4.00	37.0		1.60	1.00	3.0	18.80	26.9		6.4	113.0	50.5
36	1.50		38.8		5.6	3.6	2.5	4.15	38.0	+0.25	1.60	1.00		19.40	26.4		6.4	116.0	50.2
38	1.50		40.8		6.1	3.8	2.5	4.40	40.0		1.60	1.00	3.0	22.50	28.2	1.5	6.7	123.0	51.7
40	1.75		43.5		7.2	4.0	2.5	5.30	42.5		1.85	1.25	3.8	27.00	44.6	2.0	8.3	162.0	80.1
42	1.75		45.5		7.2	4.1	2.5	6.00	44.5		1.85	1.25		28.40	44.7		8.4	170.0	80.9
44	1.75		47.5		7.2	4.2	2.5	6.45	46.5	+0.90	1.85	1.25		29.50	43.3		8.3	177.0	78.6
45	1.75		48.5		7.2	4.3	2.5	6.60	47.5	-0.39	1.85	1.25		30.20	43.1		8.2	181.0	78.1
47	1.75		50.5		7.2	4.5	2.5	6.90	49.5		1.85	1.25	3.8	31.40	43.5	2.0	8.3	189.0	78.9
48	1.75		51.5		7.2	4.5	2.5	7.50	50.5		1.85	1.25		32.00	43.2		8.4	193.0	78.5
50	2.00		54.2		8.2	4.7	2.5	8.50	53.0		2.15	1.50	4.5	40.50	60.8		12.1	243.0	111.0
52	2.00		56.2		8.2	4.7	2.5	9.40	55.0		2.15	1.50		42.00	60.2		12.0	252.0	108.0
55	2.00		59.2		8.2	5.1	2.5	9.75	58.0	+1.10	2.15	1.50		44.40	60.3		12.5	266.0	111.0
57	2.00		61.2		8.2	5.2	2.5	11.65	60.0	-0.46	2.15	1.50	4.5	46.00	60.8	2.0	12.7	276.0	112.0
58	2.00		62.2		8.2	5.3	2.5	12.00	61.0		2.15	1.50		46.70	60.8		12.7	280.0	112.0
60	2.00		64.2		8.2	5.5	2.5	12.70	63.0		2.15	1.50		48.30	61.0		13.0	290.0	113.0
62	2.00		66.2		8.2	5.6	2.5	12.75	65.0		2.15	1.50		49.80	60.9		13.0	299.0	112.0
65	2.50		69.2		10.2	5.8	3.0	16.70	68.0		2.65	1.50	2.5	51.80	121.0	2.5	20.8	313.0	220.0




JK - DIN 984

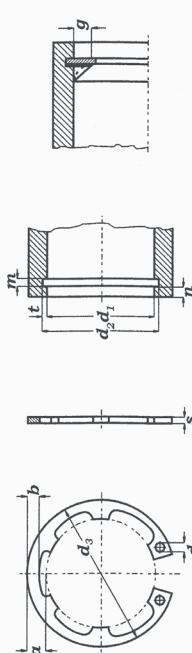


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# PIERŚCIENIE JK - DIN 984

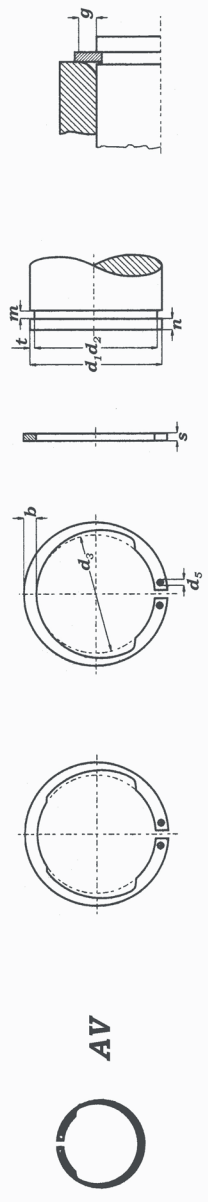
d <sub>1</sub>	D A N E																			
	s	Δ	d <sub>3</sub>	Δ	α max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	
67	2.50		71.5		10.2	6.0	3.0	18.60	70.0		2.65	1.50	4.5	53.80	121.0	2.5	21.1	323.0	222.0	4
68	2.50		72.5		10.2	6.1	3.0	19.30	71.0		2.65	1.50		54.50	121.0		21.2	327.0	222.0	4
70	2.50	+1.10	74.5		10.2	6.2	3.0	20.20	73.0	+0.30	2.65	1.50		56.20	119.0		21.0	337.0	218.0	4
72	2.50	-0.46	76.5		10.2	6.4	3.0	21.20	75.0		2.65	1.50		58.00	119.0		21.0	346.0	217.0	4
75	2.50		79.5		10.2	6.6	3.0	22.60	78.0		2.65	1.50		60.00	118.0		21.0	360.0	215.0	4
80	2.50		85.5		10.2	7.0	3.0	25.00	83.5		2.65	1.75	5.3	74.60	120.0	2.5	21.8	448.0	219.0	4
85	3.00		90.5		12.2	7.4	3.5	30.10	88.5		3.15	1.75		79.50	201.0	3.0	31.2	477.0	364.0	4
90	3.00		95.5		12.2	7.7	3.5	35.50	93.5	+0.35	3.15	1.75		84.00	199.0		31.4	504.0	364.0	4
95	3.00	+1.30	100.5		12.2	8.1	3.5	40.00	98.5		3.15	1.75		88.60	195.0		31.4	532.0	365.0	4
100	3.00	-0.54	105.5		12.2	8.5	3.5	43.50	103.5		3.15	1.75		93.10	188.0		30.8	559.0	359.0	4
110	4.00		117.0		12.2	9.0	3.5	73.00	114.0	+0.54	4.15	2.00	6.0	117.00	415.0	3.0	71.0	704.0	824.0	4
115	4.00		122.0		12.2	9.3	3.5	82.00	119.0		4.15	2.00		122.00	409.0		71.2	735.0	829.0	4
120	4.00		127.0		12.2	9.6	3.5	87.00	124.0		4.15	2.00		127.00	396.0		70.0	767.0	818.0	4
125	4.00		132.0		12.2	9.9	4.0	92.00	129.0		4.15	2.00		132.00	385.0		70.0	797.0	809.0	4
130	4.00		137.0		12.2	10.2	4.0	102.00	134.0		4.15	2.00		138.00	374.0		69.0	829.0	801.0	4
140	4.00	+1.50	148.0		14.2	10.7	4.0	112.00	144.0	+0.63	4.15	2.00	6.0	148.00	350.0	3.0	66.5	892.0	775.0	4
150	4.00	-0.63	158.0		14.2	11.1	4.0	123.00	155.0		4.15	2.50	7.5	191.00	326.0		64.0	1198.0	748.0	4
160	4.00		169.0		14.2	11.8	4.5	133.00	165.0		4.15	2.50		212.00	321.0	3.5	54.5	1275.0	737.0	4
170	4.00		179.5		14.2	12.3	4.5	145.00	175.0		4.15	2.50		225.00	349.0		59.0	1355.0	800.0	4





# PIERŚCIEŃ AV

d <sub>1</sub>	Ø										H7					D A N E						
	s	Δ	d <sub>3</sub>	b	Δ	d <sub>5</sub> min.	Δ	d <sub>5</sub> min. (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN/mm)	n <sub>det.</sub> x1000 (rpm)		
10	0.60	-0.05	9.2	1.8		1.0	0.25	9.5		0.70	0.25	0.70	0.70	0.62	1.4	1.0	1.0	3.8	5.7	84		
12	1.00		11.0	2.1		1.3	0.50	11.5		1.10	0.40	1.10	0.9	0.70	4.5	2.4	2.4	4.2	21.6	79		
13	1.00		11.9	2.1		1.3	0.56	12.4		1.10	0.30	1.10	0.9	0.90	5.5	2.4	5.8	4.2	20.8	64		
14	1.00	+0.10	12.9	2.1		1.3	0.58	13.4		1.10	0.30	1.10	1.0	0.97	6.0	2.4	5.8	4.2	19.2	56		
15	1.00	-0.36	13.8	2.2		1.3	0.66	14.3		1.10	0.35	1.10	1.0	1.22	6.5	2.4	7.3	4.2	19.3	50		
16	1.00		14.7	2.3		1.3	0.81	15.2		1.10	0.40	1.10	1.2	1.48	7.0	2.5	8.9	4.2	18.7	45		
17	1.00		15.7	2.4		1.3	0.81	16.2		1.10	0.40	1.10	1.2	1.57	8.1	2.6	9.4	4.2	18.2	41		
18	1.20		16.5	2.6		1.5	1.14	17.0		1.30	0.50	1.30	1.5	2.07	14.8	3.1	12.4	32.6	39	39		
20	1.20		18.5	2.8		1.5	1.43	19.0		1.30	0.50	1.30	1.5	2.30	14.6	3.1	13.8	30.1	32	32		
21	1.20	+0.13	19.35	2.8		1.5	1.53	20.0		1.30	0.50	1.30	1.5	2.42	14.4	3.1	14.5	29.9	29	29		
22	1.20	-0.42	20.5	3.0	±0.1	1.5	1.63	21.0		1.30	0.50	1.30	1.5	2.53	14.2	3.1	15.2	29.7	27	27		
23	1.20		21.5	3.1		1.5	1.78	22.0		1.30	0.50	1.30	1.5	2.66	14.0	3.1	16.0	29.0	25	25		
24	1.20	-0.06	22.2	3.2		1.5	1.90	22.9		1.30	0.55	1.30	1.6	3.03	14.0	3.1	18.2	28.8	27	27		
25	1.20		23.2	3.4		1.5	2.10	23.9		1.30	0.55	1.30	1.6	3.18	14.1	3.2	19.1	28.8	25	25		
26	1.20	+0.21	24.2	3.5		1.5	2.18	24.9		1.30	0.55	1.30	1.6	3.30	14.1	3.2	19.8	28.4	25	25		
28	1.50	-0.42	25.9	3.8		2.0	3.18	26.6		1.60	0.70	1.60	2.1	4.50	28.0	6.4	27.0	56.0	22	22		
30	1.50		27.9	3.9		2.0	3.58	28.6		1.60	0.70	1.60	2.1	4.86	27.5	6.3	29.2	53.5	19	19		
32	1.50		29.6	4.0		2.0	3.88	30.3		1.60	0.85	1.60	2.5	6.25	27.0	4.7	37.0	52.0	17	17		
34	1.50	+0.25	31.5	4.2		2.0	4.60	32.3		1.60	0.85	1.60	2.5	6.67	26.6	4.6	40.0	50.5	15	15		
35	1.50	-0.50	32.2	4.2		2.0	4.53	33.0		1.60	1.00	1.60	2.5	8.00	26.6	4.6	48.0	50.1	16	16		
38	1.75		34.5	4.5		2.0	5.50	35.8		1.85	1.10	1.85	3.3	10.60	42.0	7.8	64.0	77.0	15	15		
40	1.75		36.5	4.7		2.0	6.49	37.5		1.85	1.25	1.85	3.8	12.60	42.0	7.8	75.0	77.0	15	15		
42	1.75		38.5	4.7		2.0	6.51	39.5		1.85	1.25	1.85	3.8	13.30	42.0	7.8	80.0	76.0	13	13		
45	1.75	+0.39	41.5	4.7		2.0	7.80	42.5		1.85	1.25	1.85	3.8	14.30	41.5	7.8	86.0	75.0	11	11		
47	1.75	-0.90	43.5	5.0		2.0	8.09	44.5		1.85	1.25	1.85	3.8	15.00	41.0	7.8	90.0	73.5	10	10		
48	1.75		44.5	5.2	±0.2	2.0	8.48	45.5		1.85	1.25	1.85	4.5	15.80	41.0	7.8	95.0	73.5	10	10		
50	2.00		45.8	5.2		2.5	9.84	47.0		2.15	1.50	2.15	4.5	19.20	58.0	11.6	115.0	108.0	10	10		
55	2.00		50.8	5.8		2.5	11.42	52.0		2.15	1.50	2.15	4.5	21.00	58.0	9.3	126.0	104.0	9	9		
58	2.00		53.8	5.8		2.5	13.00	55.0		2.15	1.50	2.15	4.5	22.20	56.0	9.2	133.0	100.0	8	8		
60	2.00		55.8	5.8		2.5	13.80	57.0		2.15	1.50	2.15	4.5	23.00	55.5	9.1	138.0	99.0	7	7		
65	2.50	-0.07	60.8	6.0		2.5	20.75	62.0		2.65	1.50	2.65	4.5	24.80	104.0	17.6	149.0	187.0	6	6		
70	2.50	+0.46	65.5	6.5		2.5	23.70	67.0		2.65	1.50	2.65	4.5	27.00	103.0	17.6	162.0	185.0	6	6		
72	2.50	-1.10	67.5	6.5		2.5	24.70	69.0		2.65	1.50	2.65	4.5	27.70	104.0	18.0	166.0	187.0	6	6		
75	2.50		70.5	6.5		2.5	27.50	72.0		2.65	1.50	2.65	4.5	29.20	100.0	17.7	175.0	182.0	5	5		
80	2.50		74.5	7.0		2.5	28.90	76.5		2.65	1.75	2.65	5.3	36.60	96.0	14.6	220.0	175.0	6	6		
82	2.50		76.5	7.0	±0.3	2.5	29.65	78.5		2.65	1.75	2.65	5.3	37.40	100.0	15.4	225.0	184.0	5	5		
85	3.00		79.5	7.4		3.0	39.50	81.5		3.15	1.75	3.15	5.3	38.30	167.0	25.6	230.0	300.0	5	5		
87	3.00		81.5	7.4		3.0	40.00	83.5		3.15	1.75	3.15	5.3	39.20	164.0	25.5	235.0	297.0	5	5		
90	3.00		84.5	7.4		3.0	41.92	86.5		3.15	1.75	3.15	5.3	41.70	157.0	24.8	250.0	288.0	4	4		
95	3.00	+0.54	89.5	8.0		3.0	47.70	91.5		3.15	1.75	3.15	5.3	42.70	152.0	21.0	256.0	285.0	4	4		
100	3.00	-1.300	94.5	8.0		3.0	49.92	96.5		3.15	1.75	3.15	5.3	45.80	144.0	20.5	275.0	276.0	4	4		

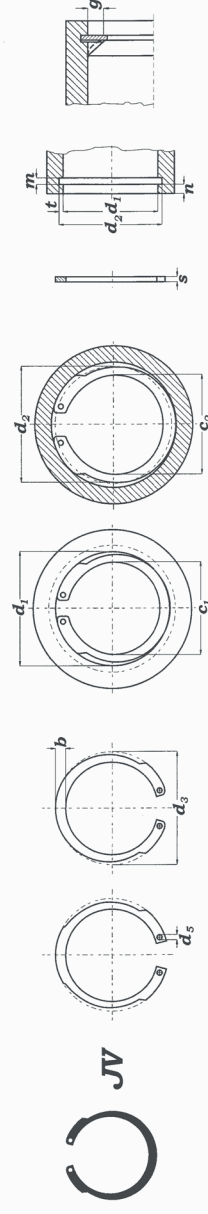


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# PIERŚCIEŃ JV

d <sub>1</sub>	O										D A N E										
	s	Δ	d <sub>3</sub>	Δ	b	Δ	d <sub>5</sub> min.	C <sub>1</sub>	C <sub>2</sub>	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN/mm)
10	0.60		10.9		1.5		0.9	6.7	7.3	0.15	10.5		0.70	0.25	0.7	0.52	1.7	0.5	1.0	3.1	5.7
12	0.60	-0.05	13.1		1.8		1.0	8.1	8.8	0.25	12.6		0.70	0.30	0.9	0.75	1.8	0.8	1.0	4.5	5.5
15	0.80		16.1		2.0		1.0	10.7	11.5	0.41	15.7	+0.11	0.90	0.35	1.0	1.33	3.3	1.0	1.9	8.0	11.0
16	1.00		17.3		2.1		1.3	11.5	12.4	0.53	16.8		1.10	0.40	1.2	1.67	5.2	1.0	3.1	10.0	22.7
17	1.00		18.3		2.1		1.3	12.5	13.4	0.58	17.8		1.10	0.40	1.2	1.70	5.8	1.0	3.0	11.0	21.2
18	1.00	+0.42	19.5		2.2		1.3	13.3	14.4	0.62	19.0		1.10	0.50	1.5	1.78	6.3	1.0	3.0	14.0	20.4
19	1.00	-0.13	20.5		2.2		1.3	14.3	15.4	0.66	20.0		1.10	0.50	1.5	2.50	6.6	1.0	2.8	15.0	19.2
20	1.00		21.5		2.3		1.3	15.1	16.2	0.80	21.0	+0.15	1.10	0.50	1.5	2.66	7.0	1.0	2.9	16.0	19.0
21	1.00		22.5		2.4		1.3	15.9	17.0	0.81	22.0		1.10	0.50	1.5	2.73	7.4	1.0	2.8	17.0	18.5
22	1.00		23.5		2.4		1.3	16.9	18.0	0.83	23.0		1.10	0.50	1.5	2.80	7.5	1.0	2.8	17.0	17.8
24	1.20		25.9		2.8		1.5	18.1	19.4	1.30	25.2		1.30	0.60	1.8	3.68	14.5	1.0	4.8	22.0	29.9
25	1.20	+0.42	26.9		2.8		1.5	18.9	20.2	1.40	26.2		1.30	0.60	1.8	4.00	14.8	1.0	5.0	24.0	30.6
26	1.20	-0.21	27.9		3.0		1.5	19.7	21.0	1.50	27.2	+0.21	1.30	0.60	1.8	4.17	15.3	1.0	5.2	25.0	31.4
27	1.20		29.1		3.0		1.5	20.7	22.2	1.53	28.4		1.30	0.70	2.1	5.00	15.0	1.0	5.1	30.0	29.9
28	1.20	-0.06	30.1		3.1		1.5	21.5	23.0	1.80	29.4		1.30	0.70	2.1	5.10	15.3	1.0	5.2	31.0	30.4
30	1.20		32.1		3.2		1.5	23.3	24.8	2.03	31.4		1.30	0.70	2.1	5.50	14.9	1.0	5.1	33.0	29.0
32	1.20		34.4		3.3		1.5	25.1	26.9	2.05	33.7		1.30	0.85	2.5	7.00	14.1	1.0	4.9	42.0	27.4
33	1.20	+0.50	35.5		3.3		1.5	26.1	27.9	2.35	34.7		1.30	0.85	2.5	7.30	13.8	1.0	4.8	44.0	26.6
35	1.50	-0.25	37.8		3.4		1.7	27.9	30.0	3.20	37.0		1.60	1.00	3.0	9.20	26.4	1.5	6.3	55.0	49.6
36	1.50		38.8		3.6		1.7	28.5	30.6	3.23	38.0		1.60	1.00	3.0	9.70	27.5	1.5	6.6	58.0	51.5
38	1.50		40.8		3.8		1.7	30.1	32.2	3.68	40.0	+0.25	1.60	1.00	3.0	10.20	28.0	1.5	6.7	61.0	51.2
40	1.75		43.5		4.2		2.0	31.0	33.7	4.75	42.5		1.85	1.25	3.8	13.50	45.5	2.0	8.4	81.0	82.5
42	1.75	+0.90	45.5		4.2		2.0	33.0	35.7	5.20	44.5		1.85	1.25	3.8	14.10	45.5	2.0	8.5	85.0	82.5
45	1.75	-0.39	48.5		4.2		2.0	35.6	38.7	6.00	47.5		1.85	1.25	3.8	15.00	44.0	2.0	8.4	90.0	79.5
47	1.75		50.5		4.7		2.0	37.0	39.7	6.50	49.5		1.85	1.25	3.8	15.80	45.0	2.0	8.7	95.0	81.3
48	1.75		51.5		4.7		2.0	38.0	40.7	7.00	50.5		1.85	1.25	3.8	16.00	48.0	2.0	9.1	96.0	85.8
50	2.00		54.2		5.2		2.5	39.0	42.2	8.50	53.0		2.15	1.50	4.5	20.00	69.0	2.0	13.4	120.0	124.0
52	2.00		56.2		5.2		2.5	41.0	44.2	9.00	55.0	±0.2	2.15	1.50	4.5	20.80	66.5	2.0	13.3	125.0	121.0
55	2.00	+1.10	59.2		5.2		2.5	44.0	47.2	10.00	58.0		2.15	1.50	4.5	22.20	66.0	2.0	13.3	133.0	118.0
57	2.00	-0.46	61.2		5.2		2.5	46.0	49.2	10.25	60.0	+0.30	2.15	1.50	4.5	23.00	65.0	2.0	13.1	138.0	115.0
58	2.00		62.2		5.2		2.5	47.0	50.2	10.50	61.0		2.15	1.50	4.5	23.30	64.0	2.0	12.9	140.0	113.0
60	2.00		64.2		5.2		2.5	49.0	52.2	11.25	63.0		2.15	1.50	4.5	24.20	62.0	2.0	12.7	145.0	111.0
62	2.00		66.2		5.2		2.5	51.0	54.2	11.75	65.0		2.15	1.50	4.5	25.00	60.0	2.0	12.3	150.0	107.0
65	2.50		69.2		5.7		2.5	52.2	56.0	16.25	68.0		2.65	1.50	4.5	25.80	122.0	2.5	20.6	155.0	218.0
67	2.50	±0.3	71.5		5.7		2.5	54.7	58.0	17.30	70.0		2.65	1.50	4.5	26.80	122.0	2.5	20.8	161.0	218.0

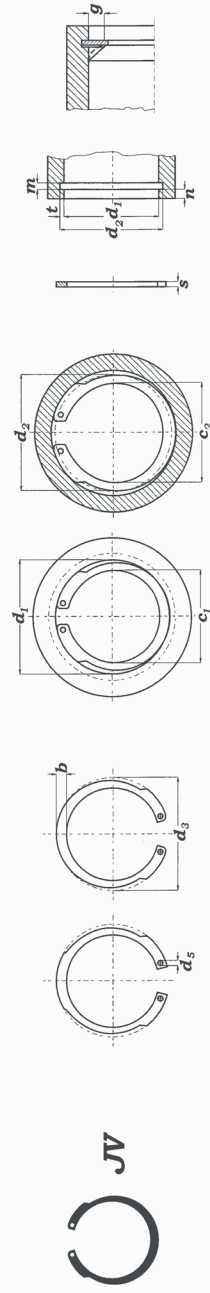


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# PIERŚCIENIE JV

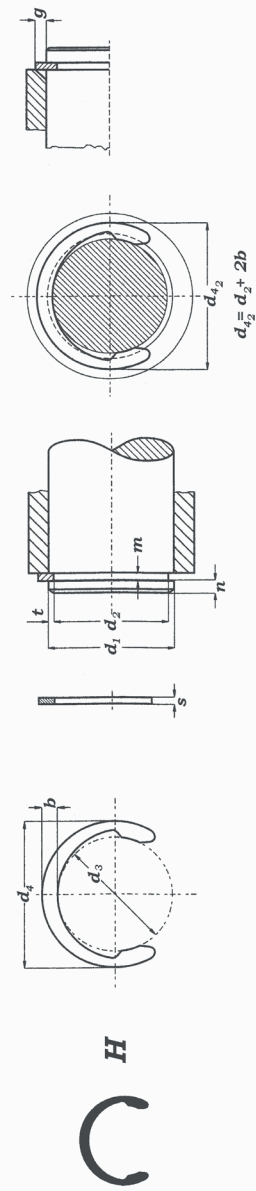
d <sub>1</sub>	D A N E																		
	s	Δ	d <sub>3</sub>	Δ	b	Δ	d <sub>5</sub> min.	Δ	d <sub>2</sub>	Δ	m min.	f	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN/mm)
68	2.50	+1.10	72.5	+1.10	5.7		2.5	17.75	71.0	+0.30	2.65	1.50	4.5	27.20	123.0	2.5	21.0	163	220.0
72	2.50	-0.46	76.5	-0.46	6.0		2.5	19.60	75.0		2.65	1.50		28.80	119.0		20.8	173	214.0
80	2.50		85.5		6.0		2.5	22.90	83.5		2.65	1.75	5.3	37.40	110.0		19.6	224	196.0
85	3.00		90.5		6.6	±0.3	3.0	30.00	88.5		3.15	1.75		39.70	176.0	3.0	27.2	238	318.0
90	3.00	+1.30	95.5	+1.30	6.6		3.0	33.00	93.5	+0.35	3.15	1.75		42.00	169.0		26.6	252	309.0
95	3.00	-0.54	100.5	-0.54	7.4		3.0	37.50	98.5		3.15	1.75	5.3	43.50	168.0	3.0	27.0	261	315.0
100	3.00		105.5		7.4		3.0	41.90	103.5		3.15	1.75		46.70	165.0		26.8	280	312.0





# PIERŚCIEŃ H

d <sub>1</sub>	C					H					DANE						
	s	Δ	d <sub>3</sub>	b	d <sub>4</sub>	(kg/1000)	d <sub>2</sub>	Δ	m	min.	t	d <sub>42</sub>	n	FN (kN)	FR (kN)	g	F <sub>Rg</sub> (kN)
3	0.40	±0.06	2.18	0.90	3.98	0.02	2.3		0.44	0.35	4.1	1.0	0.24	0.50	0.40	0.40	95
4	0.40		3.00	1.00	5.00	0.04	3.2		0.44	0.40	5.2	1.2	0.37	0.50	0.40	0.40	90
5	0.60		3.80	1.20	6.20	0.08	4.0	-0.07	0.64	0.50	6.4	1.5	0.58	1.10	0.60	0.70	88
6	0.70		4.80	1.30	7.40	0.11	5.0		0.74	0.50	7.6	1.0	0.72	1.65	0.70	1.10	80
6.5	0.70	±0.08	5.60	1.30	8.20	0.12	5.8		0.74	0.35	8.4	1.0	0.55	1.70	1.05	1.05	76
7	0.80		5.80	1.40	8.60	0.13	6.0		0.85	0.50	8.8	1.5	0.85	2.20	0.80	1.30	69
8	0.80		6.80	1.60	10.00	0.17	7.0	-0.09	0.85	0.50	10.2	1.5	0.98	2.20	1.30	1.30	67
9	1.00	±0.09	7.80	1.70	11.20	0.22	8.0		1.10	0.50	11.4	1.00	1.10	3.50	1.00	2.00	58
10	1.00		8.75	1.70	12.15	0.26	9.0		1.10	0.50	12.4	1.00	1.24	3.70	2.00	2.00	50
11	1.00		9.65	1.80	13.20	0.29	10.0		1.10	0.50	13.6	1.00	1.35	4.00	2.00	2.00	40
12	1.00		10.55	1.90	14.35	0.32	10.9		1.10	0.55	14.7	1.7	1.65	4.20	1.00	2.00	35
13	1.00		11.40	2.00	15.40	0.36	11.8		1.10	0.60	15.8	1.8	1.90	4.50	2.00	2.00	30
14	1.00		12.30	2.00	16.30	0.40	12.7		1.10	0.65	16.7	2.0	2.20	5.00	2.00	2.00	27
15	1.00		13.20	2.10	17.40	0.46	13.6	-0.11	1.10	0.70	17.8	2.1	2.60	5.50	2.00	2.00	25
16	1.00		14.10	2.20	18.50	0.54	14.5		1.10	0.75	18.9	2.3	3.00	5.80	2.00	2.00	24
17	1.00		14.90	2.25	19.40	0.64	15.4		1.10	0.80	19.9	2.4	3.40	6.00	1.00	2.00	23
18	1.20		15.80	2.30	20.40	0.72	16.3		1.30	0.85	20.9	2.6	3.70	8.50	1.20	2.80	21
19	1.20		16.70	2.40	21.50	0.80	17.2		1.30	0.90	22.0	2.7	4.30	9.00	2.80	2.80	21
20	1.20		17.55	2.55	22.65	0.87	18.1		1.30	0.95	23.2	2.9	4.70	9.40	3.00	3.00	20
22	1.20		19.40	2.80	25.00	1.10	19.9		1.30	1.05	25.5	3.2	5.70	1.00	3.00	3.00	17
23	1.20	-0.06	20.20	2.90	26.00	1.15	20.8		1.30	1.10	26.6	3.3	6.20	10.50	1.20	3.20	15
24	1.20		21.10	3.00	27.10	1.52	21.7		1.30	1.15	27.7	3.5	6.80	11.00	3.20	3.20	15
25	1.20		22.00	3.15	28.30	1.74	22.6	-0.21	1.30	1.20	28.9	3.6	7.50	11.50	3.20	3.20	15
26	1.20		22.90	3.25	29.40	1.88	23.5		1.30	1.25	30.0	3.8	8.00	12.00	3.20	3.20	15
28	1.50		24.60	3.50	31.60	2.32	25.2		1.60	1.40	32.2	4.2	9.70	16.50	1.50	5.50	13
30	1.50		26.30	3.70	33.70	2.43	27.0		1.60	1.50	34.4	4.5	11.00	17.00	1.50	5.60	13
32	1.50		28.10	4.00	36.10	3.02	28.8		1.60	1.60	36.8	4.6	12.50	18.00	1.50	5.80	13
35	1.50		30.80	4.30	39.40	3.30	31.5		1.60	1.75	40.1	5.3	15.00	20.00	1.75	5.80	11
36	1.75		31.70	4.40	40.50	4.40	32.4		1.85	1.80	41.2	5.4	16.00	25.00	1.75	8.30	10
38	1.75	±0.25	33.40	4.60	42.60	4.62	34.2		1.85	1.90	43.4	5.7	17.50	26.00	2.00	8.50	10
40	1.75		35.20	4.90	45.00	5.05	36.0		1.85	2.00	45.8	6.0	20.00	27.50	1.75	8.80	9
42	1.75		37.00	5.10	47.20	5.46	37.8		1.85	2.10	48.0	6.3	21.50	28.00	1.75	8.90	9
45	1.75		39.60	5.50	50.60	5.98	40.5	-0.25	1.85	2.25	51.5	6.8	25.00	30.00	2.00	9.00	8
48	1.75		42.30	5.90	54.10	7.82	43.2		1.85	2.40	55.0	7.2	28.00	32.00	2.00	9.00	8
50	2.00	±0.39	44.00	6.20	56.40	8.85	45.0		2.15	2.50	57.4	7.5	31.00	39.50	2.00	12.00	7
52	2.00	-0.07	46.00	6.30	58.60	9.33	47.0		2.15	2.50	59.6	7.5	32.00	41.00	2.00	12.00	7
55	2.00		48.50	6.50	61.50	10.40	50.0		2.15	2.50	63.0	7.5	34.00	43.00	2.00	12.00	7

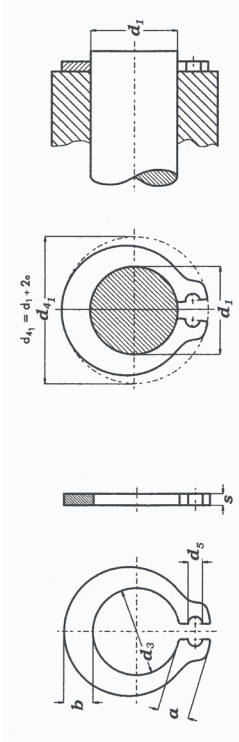


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# PIERŚCIEŃ G



		<b>Ø</b>										<b>D A N E</b>		
d <sub>1</sub>	s	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>4</sub>	H (N)	n <sub>det.</sub> x1000 (rpm)				
1.5	0.40	1.40	±0.020	1.7	0.7	0.9	0.013	5.1	40	350				
2.0	0.60	1.90	±0.025	1.9	1.0	0.9	0.036	6.0	50	260				
2.2	0.60	2.05	±0.030	1.9	1.1	0.9	0.038	6.2	50	270				
2.5	0.60	2.35	±0.035	1.9	1.2	0.9	0.045	6.5	60	220				
2.8	0.60	2.65	±0.040	2.0	1.3	0.9	0.057	7.0	70	190				
3.0	0.60	2.85	±0.050	2.1	1.4	0.9	0.065	7.4	75	170				
3.5	0.60	3.30	±0.060	2.3	1.6	1.2	0.081	8.3	90	150				
4.0	0.80	3.80	±0.075	2.7	1.8	1.2	0.154	9.6	100	125				
4.5	0.80	4.25		2.9	2.0	1.3	0.173	10.5	120	120				
5.0	0.80	4.75		2.9	2.2	1.3	0.200	11.0	130	100				
5.5	0.80	5.20		3.0	2.2	1.3	0.216	11.7	150	90				
6.0	1.00	5.70		3.2	2.4	1.4	0.402	12.6	170	81				
7.0	1.00	6.70		3.4	2.7	1.4	0.428	14.0	180	63				
8.0	1.00	7.70		3.5	3.0	1.4	0.524	15.2	200	52				
9.0	1.20	8.65	±0.090	4.7	3.3	2.0	0.808	18.6	230	46				
10.0	1.20	9.65		4.7	3.5	2.0	0.944	19.6	250	39				
10.5	1.20	10.20		4.0	3.8	1.5	1.100	18.7	260	34				
11.0	1.20	10.60		4.8	4.2	2.0	1.208	20.8	280	37				
12.0	1.20	11.60		4.8	4.6	2.0	1.454	21.8	300	33				
13.0	1.20	12.55		5.3	5.0	2.0	1.750	23.8	320	31				
13.8	1.50	13.30	±0.110	5.1	5.4	2.2	2.492	24.8	350	30				
14.0	1.50	13.50		5.1	5.4	2.2	2.456	25.0	350	29				
15.0	1.50	14.50		5.1	5.6	2.2	2.716	26.4	400	26				
16.0	1.50	15.40		5.6	5.8	2.5	2.940	27.8	500	26				
17.0	1.75	16.35		6.0	6.2	2.5	4.010	29.5	600	24				
18.0	1.75	17.30		6.1	6.6	2.5	4.460	31.4	700	23				
20.0	1.75	19.30		6.1	7.1	2.5	5.270	34.4	700	20				
22.0	1.75	21.20		6.6	7.4	2.5	6.060	37.0	750	18				
24.0	1.75	23.15	±0.130	6.6	7.8	2.5	7.000	39.8	750	16				
25.0	1.75	24.15		6.6	8.2	2.5	7.450	41.6	750	15				
30.0	1.75	29.00		9.0	9.0	2.5	10.000	48.2	750	12				

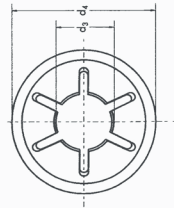
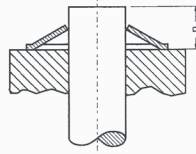


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# PIERŚCIENIE KS


d <sub>1</sub>							D A N E	
	Δ	d <sub>3</sub>	d <sub>4</sub>	s	 n min.	h	Δ (kg/1000)	H (N)
1.5	+0.000 -0.025	1.30	6.00	0.25	3	1.2	0.10	200
2.0		1.80	7.00	0.30	3	1.3	0.13	400
2.5		2.30	8.25	0.30	3	1.5	0.15	700
3.0		2.80	10.00	0.40	3	2.0	0.20	1200
3.5	+0.000 -0.030	3.25	11.50	0.40	3	2.0	0.25	1200
4.0		3.75	13.00	0.50	4	2.4	0.50	1300
5.0		4.75	15.00	0.50	4	2.7	0.75	1500
6.0		5.75	16.50	0.60	6	2.6	1.15	1800
7.0	+0.000 -0.036	6.75	18.00	0.60	6	2.9	1.25	2000
8.0		7.75	19.50	0.70	6	2.8	1.40	3000
9.0		8.75	21.00	0.70	6	3.0	1.50	3500
10.0		9.75	22.00	0.80	6	3.0	1.65	4000

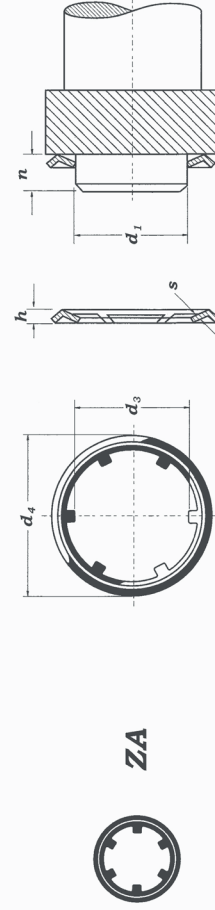


KS





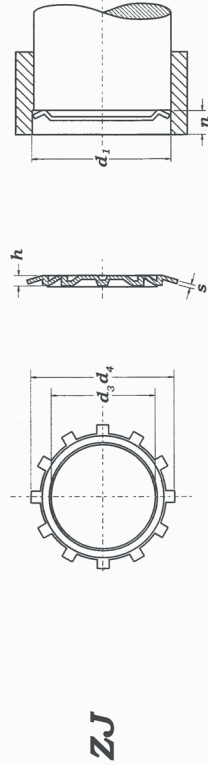
# PIERŚCIENIE ZA

d <sub>1</sub>	DANE									
	Δ	d <sub>3</sub>	d <sub>4</sub>	s		n min.	h	Δ	$\frac{\Delta}{(kg/1000)}$	FRg (N)
1.5	±0.10	1.40	6.0	0.25	3	1.5	0.6	±0.15	0.040	100
2.0		1.85	6.5	0.25	3	1.5	0.6		0.042	150
3.0		2.80	8.0	0.25	4	1.5	0.8		0.066	200
3.5		3.30	8.2	0.25	4	2.0	0.9		0.104	210
4.0	3.80	9.0	0.25	4	2.0	0.8	0.078		220	
5.0	±0.12	4.80	10.0	0.25	4	2.0	0.8		0.082	230
6.0		5.80	11.0	0.25	4	2.5	0.8		0.094	240
7.0		6.80	12.0	0.25	4	2.5	0.8		0.110	250
8.0		7.75	13.0	0.25	4	2.5	0.8		0.112	250
9.0	8.75	14.0	0.30	6	2.5	0.9	0.208		300	
10.0	±0.15	9.75	16.0	0.30	6	3.0	1.1		0.232	320
12.0		11.70	18.0	0.30	6	3.0	1.1		0.255	350
14.0		13.70	20.5	0.30	6	3.0	1.2	0.310	400	
15.0		14.60	23.0	0.50	8	3.0	1.6	0.750	600	
16.0	15.60	24.5	0.40	8	3.0	1.4	0.710	700		
17.0	±0.15	16.60	26.0	0.50	8	3.5	1.5	0.950	800	
18.0		17.60	27.0	0.40	8	3.5	1.4	0.810	850	
19.0		18.60	28.0	0.50	8	3.5	1.5	0.950	900	
20.0		19.50	29.0	0.50	8	3.5	1.6	1.090	950	
22.0	21.50	31.0	0.50	8	3.5	1.6	1.150	1000		
23.0	±0.15	22.50	31.5	0.50	8	4.0	1.5	1.220	1050	
25.0		24.50	34.0	0.50	8	4.0	1.6	1.490	1100	
28.0		27.50	37.0	0.50	8	4.0	1.8	1.550	1200	
30.0		29.50	40.0	0.50	8	4.0	1.8	1.630	1300	
35.0	34.50	46.0	0.50	8	4.0	1.8	2.100	1400		
45.0	44.50	60.0	0.50	8	4.0	2.5	2.700	1500		



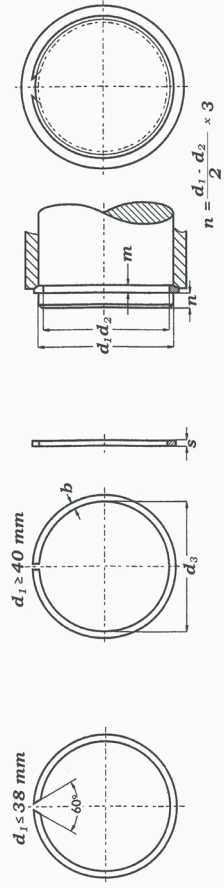
# PIERŚCIENIE ZJ

								<b>D A N E</b>	
$d_1$	$\Delta$	$d_3$	$d_4$	$s$		n min.	h	$\Delta$ (kg/1000)	FRg (N)
8.0	+0.00 -0.09	4.0	8.25	0.25	6	2.0	0.7	0.048	300
10.0		5.0	10.20	0.25	6	2.0	0.8	0.068	350
12.0		6.0	12.25	0.25	6	2.5	1.0	0.112	450
14.0		8.0	14.25	0.30	6	2.5	1.1	0.172	500
15.0	+0.00 -0.11	9.0	15.25	0.30	6	2.5	1.1	0.192	550
16.0		10.0	16.30	0.30	6	2.5	1.0	0.206	600
17.0		11.0	17.30	0.30	8	3.0	1.0	0.236	650
18.0		10.5	18.30	0.40	8	3.0	1.3	0.380	700
19.0		11.0	20.20	0.50	8	3.5	1.2	0.604	800
20.0		11.0	20.35	0.40	8	3.5	1.2	0.512	800
22.0	+0.00 -0.13	13.0	22.35	0.50	8	3.5	1.6	0.680	800
25.0		16.0	25.35	0.50	10	3.5	1.5	0.810	800
26.0		17.0	26.40	0.50	10	3.5	1.5	0.856	850
28.0		19.0	28.40	0.50	10	3.5	1.4	0.922	850
30.0		21.0	30.40	0.50	8	4.0	1.5	1.010	900
32.0		22.5	32.40	0.50	12	4.0	1.5	1.210	900
35.0		25.0	35.40	0.50	12	4.0	1.6	1.320	900
40.0	+0.00 -0.16	30.0	40.40	0.50	12	4.0	1.6	1.720	950
45.0		35.0	45.40	0.50	12	4.0	1.6	1.830	950
46.0		36.0	46.50	0.50	12	4.0	1.6	1.870	1000
50.0		39.0	50.50	0.50	12	4.0	1.7	2.160	1000



# PIERŚCIEŃ SW

d <sub>1</sub>	DANE					DANE					DANE			DANE				
	s (-0.1)	b (-0.1)	d <sub>3</sub> max. (kg/1000)	Δ (kg/1000)	m min.	FN (kN)	FR (kN)	n <sub>det.</sub> x1000 (rpm)	d <sub>1</sub>	s (-0.1)	b (-0.1)	d <sub>3</sub> max. (kg/1000)	Δ (kg/1000)	d <sub>2</sub>	m min.	FN (kN)	FR (kN)	n <sub>det.</sub> x1000 (rpm)
4	0.5	0.80	3.7	0.02	0.6	0.20	1.25	275	48	1.5	2.30	45.8	3.60	46.5	1.6	18.70	18.60	5.0
5	0.5	1.00	4.7	0.05	0.6	0.26	1.30	192	50	1.5	2.30	47.8	3.73	48.5	1.6	19.50	18.10	5.0
6	0.7	1.10	5.6	0.09	0.8	0.46	3.50	141	52	1.5	2.30	49.8	3.92	50.5	1.6	20.20	17.70	4.0
7	0.7	1.20	6.5	0.12	0.8	0.54	3.50	134	55	1.5	2.30	52.6	4.11	53.5	1.6	21.00	16.50	4.0
8	1.0	1.30	7.4	0.20	1.1	0.82	11.30	108	58	1.5	2.30	55.6	4.40	56.5	1.6	22.50	15.70	4.0
9	1.0	1.30	8.4	0.24	1.1	0.92	10.60	80	60	1.5	2.30	57.6	4.55	58.5	1.6	23.20	15.40	4.0
10	1.0	1.30	9.4	0.25	1.1	1.03	10.30	68	63	1.5	2.30	60.6	4.58	61.5	1.6	24.40	14.70	3.0
11	1.0	1.30	10.2	0.29	1.1	1.40	9.80	64	65	1.5	2.30	62.6	4.64	63.5	1.6	25.20	14.20	3.0
12	1.0	1.30	11.2	0.30	1.1	1.53	9.30	53	68	2.0	2.80	65.4	8.59	66.2	2.2	31.70	39.60	3.0
13	1.0	1.30	12.2	0.34	1.1	1.70	8.90	43	70	2.0	2.80	67.4	8.71	68.2	2.2	32.50	38.40	3.0
14	1.2	1.50	13.1	0.50	1.3	1.80	17.00	45	72	2.0	2.80	69.4	8.80	70.2	2.2	33.70	37.60	3.0
15	1.2	1.75	14.0	0.66	1.3	2.30	18.70	44	73	2.0	2.80	70.4	8.90	71.2	2.2	34.00	37.00	3.0
16	1.2	1.75	15.0	0.69	1.3	2.47	17.70	38	75	2.0	2.80	72.4	9.32	73.2	2.2	35.00	36.20	2.0
17	1.2	1.75	16.0	0.72	1.3	2.63	17.00	34	80	2.0	2.80	77.4	9.67	78.2	2.2	37.40	34.20	2.0
18	1.2	1.75	17.0	0.75	1.3	2.78	16.20	30	85	2.5	3.40	82.0	16.00	83.0	2.7	44.00	72.00	2.0
19	1.2	1.75	17.9	0.80	1.3	2.94	15.60	29	90	2.5	3.40	87.0	16.00	88.0	2.7	46.50	66.30	2.0
20	1.2	1.75	18.7	0.84	1.3	4.10	15.00	26	95	2.5	3.40	92.0	18.20	93.0	2.7	49.20	61.80	2.0
21	1.2	1.75	19.7	0.87	1.3	4.30	14.60	23	100	2.5	3.40	97.0	18.90	98.0	2.7	51.90	57.30	2.0
22	1.2	1.75	20.7	0.91	1.3	4.50	14.00	21	105	2.5	3.40	101.7	20.70	102.7	2.7	65.00	54.00	2.0
24	1.2	1.75	22.5	0.99	1.3	6.15	13.30	18	110	2.5	3.40	106.6	20.90	107.7	2.7	69.00	50.40	1.0
25	1.2	1.75	23.5	1.00	1.3	6.40	12.80	16	115	2.5	3.40	111.6	22.10	112.7	2.7	71.00	47.20	1.0
26	1.2	1.75	24.5	1.10	1.3	6.65	12.50	15	120	2.5	3.40	116.5	24.10	117.7	2.7	75.00	44.80	1.0
27	1.5	2.30	25.5	2.00	1.6	6.95	30.00	16	125	2.5	3.40	121.5	25.10	122.7	2.7	78.50	41.80	1.0
28	1.5	2.30	26.5	2.11	1.6	7.20	29.30	15	130	2.5	3.40	126.4	26.60	127.7	2.7	84.00	39.60	1.0
29	1.5	2.30	27.5	2.20	1.6	7.45	28.20	14	135	2.5	4.00	131.1	30.20	132.4	2.7	87.00	44.00	1.0
30	1.5	2.30	28.5	2.33	1.6	7.70	27.50	13	140	2.5	4.00	136.0	31.10	137.4	2.7	91.50	41.60	1.0
32	1.5	2.30	30.2	2.41	1.6	9.90	26.50	13	145	2.5	4.00	141.0	32.60	142.4	2.7	95.00	39.60	1.0
35	1.5	2.30	33.2	2.51	1.6	10.80	24.40	11	150	2.5	4.00	145.9	32.80	147.4	2.7	98.00	37.50	1.0
37	1.5	2.30	35.2	2.72	1.6	11.30	23.50	9	155	2.5	4.00	150.9	34.70	154.4	2.7	100.00	36.30	1.0
38	1.5	2.30	36.2	2.83	1.6	11.60	22.70	9	160	2.5	4.00	155.8	36.60	157.4	2.7	103.00	35.60	1.0
40	1.5	2.30	37.8	2.91	1.6	15.50	22.00	8	165	2.5	4.00	160.8	37.40	162.4	2.7	106.00	34.20	0.5
42	1.5	2.30	39.8	3.10	1.6	16.20	21.40	7	170	2.5	4.00	165.7	38.50	167.4	2.7	107.00	33.50	0.5
43	1.5	2.30	40.8	3.25	1.6	16.50	21.10	7	175	2.5	4.00	170.7	39.40	172.4	2.7	118.00	32.20	0.4
45	1.5	2.30	42.8	3.39	1.6	17.30	20.60	6	180	3.0	5.00	175.2	61.20	177.0	3.2	140.00	67.50	1.0
47	1.5	2.30	44.8	3.48	1.6	18.20	19.20	6	185	3.0	5.00	180.2	63.90	182.0	3.2	144.00	66.20	1.0



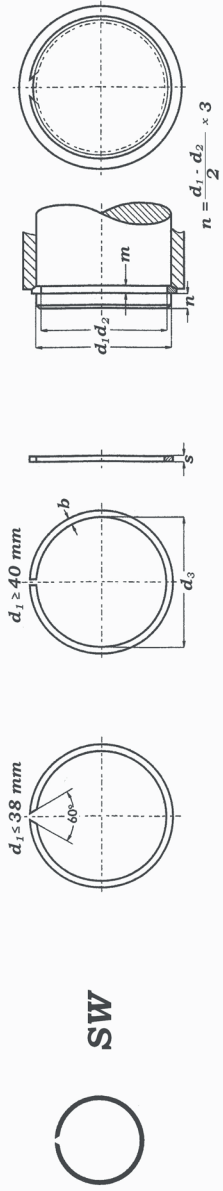
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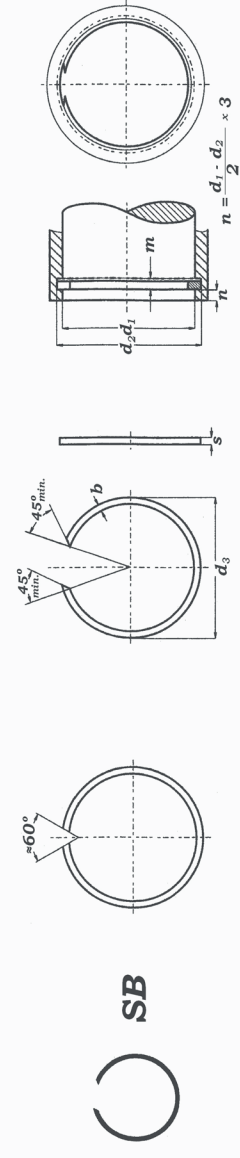
# PIERŚCIENIE SW

d <sub>1</sub>	○					H		○					H		D A N E				
	s (-0.1)	b (-0.1)	d <sub>3</sub> max.	Δ	d <sub>2</sub>	m min.	FN (kN)	FR (kN)	n <sub>det.</sub> x1000 (rpm)	d <sub>1</sub>	s (-0.1)	b (-0.1)	d <sub>3</sub> max.	Δ	d <sub>2</sub>	m min.	FN (kN)	FR (kN)	n <sub>det.</sub> x1000 (rpm)
190	3.0	5.0	185.1	65.90	187.0	3.2	148.0	64.0	1	300	4.0	7.5	292.1	214.20	295.0	4.2	390.0	145.0	0.3
195	3.0	5.0	190.1	67.50	192.0	3.2	152.0	62.6	1	305	4.0	7.5	297.1	219.40	300.0	4.2	396.0	142.0	0.3
200	3.0	5.0	196.0	68.40	197.0	3.2	156.0	61.4	0.5	310	4.0	7.5	302.0	223.10	305.0	4.2	402.0	139.0	0.3
210	3.0	5.0	204.9	72.00	207.0	3.2	164.0	58.0	0.5	320	4.0	7.5	311.9	225.30	315.0	4.2	416.0	137.0	0.3
220	3.0	5.0	214.8	76.30	217.0	3.2	171.0	55.5	0.4	330	4.0	7.5	321.8	228.60	325.0	4.2	428.0	132.0	0.2
230	3.0	5.0	224.7	79.80	227.0	3.2	180.0	53.0	0.3	340	4.0	7.5	331.7	239.30	335.0	4.2	442.0	129.0	0.2
240	3.0	5.0	234.6	81.70	237.0	3.2	187.0	51.0	0.3	350	4.0	7.5	341.6	251.20	345.0	4.2	455.0	123.0	0.2
250	3.0	5.0	244.5	86.50	247.0	3.2	195.0	49.0	0.3	360	4.0	7.5	351.5	253.10	355.0	4.2	468.0	120.0	0.2
260	4.0	7.5	252.4	179.00	255.0	4.2	338.0	168.0	0.4	370	4.0	7.5	361.5	259.20	365.0	4.2	482.0	117.0	0.2
265	4.0	7.5	257.4	185.20	260.0	4.2	344.0	165.0	0.4	380	4.0	7.5	371.4	265.80	375.0	4.2	494.0	115.0	0.2
270	4.0	7.5	262.3	197.70	265.0	4.2	350.0	162.0	0.4	390	4.0	7.5	381.3	273.90	385.0	4.2	507.0	112.0	0.2
280	4.0	7.5	272.2	198.70	275.0	4.2	362.0	155.0	0.4	400	4.0	7.5	391.2	281.10	395.0	4.2	521.0	109.0	0.1
285	4.0	7.5	277.2	199.50	280.0	4.2	370.0	151.0	0.3	420	4.5	12.0	410.0	531.00	415.0	4.8	547.0	133.0	0.3
290	4.0	7.5	282.1	205.30	285.0	4.2	377.0	148.0	0.3	460	4.5	12.0	449.5	582.00	455.0	4.8	600.0	126.0	0.2



# PIERŚCIEŃ SB

d <sub>1</sub>	○					H					DANE				
	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	m min.	FN (kN)	FR (kN)	d <sub>1</sub>	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	m min.	FN (kN)	FR (kN)
7	0.8	1.00	7.5	0.09	0.9	0.55	3.30	44	1.5	2.3	45.8	3.11	1.6	14.00	19.30
8	0.8	1.00	8.5	0.10	0.9	0.65	3.25	45	1.5	2.3	46.8	3.25	1.6	14.25	19.00
9	0.8	1.10	9.5	0.13	0.9	0.70	3.20	46	1.5	2.3	47.8	3.28	1.6	14.65	18.40
10	0.8	1.20	10.6	0.15	0.9	1.05	3.15	47	1.5	2.3	48.8	3.29	1.6	14.90	18.10
11	1.0	1.30	11.6	0.21	1.1	1.15	9.15	48	1.5	2.3	49.8	3.45	1.6	15.30	17.60
12	1.0	1.30	12.7	0.25	1.1	1.30	8.90	50	1.5	2.3	51.8	3.57	1.6	15.80	17.20
13	1.0	1.30	13.8	0.28	1.1	1.75	8.80	52	1.5	2.3	54.3	3.58	1.6	20.65	16.30
14	1.0	1.30	14.8	0.31	1.1	1.90	8.20	53	1.5	2.3	55.3	3.82	1.6	21.05	16.10
15	1.0	1.30	15.8	0.34	1.1	2.00	7.70	55	1.5	2.3	57.3	3.93	1.6	21.80	15.70
16	1.2	1.60	16.8	0.53	1.3	2.10	15.50	57	1.5	2.3	59.3	4.12	1.6	22.60	15.30
17	1.2	1.70	17.8	0.55	1.3	2.25	15.40	58	1.5	2.3	60.3	4.13	1.6	23.00	15.00
18	1.2	1.75	18.9	0.68	1.3	2.40	15.10	60	1.5	2.3	62.3	4.28	1.6	23.80	14.60
19	1.2	1.75	19.9	0.72	1.3	3.00	14.80	62	1.5	2.3	64.3	4.42	1.6	24.60	14.20
20	1.2	1.75	21.0	0.76	1.3	3.20	14.20	63	1.5	2.3	65.3	4.50	1.6	25.00	13.70
21	1.2	1.75	22.0	0.79	1.3	3.35	13.70	65	1.5	2.3	67.3	4.72	1.6	25.70	13.60
22	1.2	1.75	23.0	0.81	1.3	3.50	13.10	68	1.5	2.3	70.3	4.90	1.6	26.90	12.90
23	1.2	1.75	24.0	0.88	1.3	3.65	12.80	70	1.5	2.3	72.3	4.93	1.6	27.70	12.80
24	1.2	1.75	25.2	0.90	1.3	5.10	12.50	72	2.0	2.8	74.6	8.49	2.2	34.20	35.70
25	1.2	1.75	26.2	0.91	1.3	5.30	12.00	73	2.0	2.8	75.6	8.52	2.2	34.70	35.30
26	1.2	1.75	27.2	0.98	1.3	5.50	11.50	74	2.0	2.8	76.6	8.60	2.2	35.30	34.80
27	1.2	1.75	28.2	1.11	1.3	5.70	11.30	76	2.0	2.8	78.6	8.89	2.2	36.20	33.80
28	1.2	1.75	29.2	1.13	1.3	5.95	11.00	78	2.0	2.8	80.6	9.05	2.2	37.10	32.60
29	1.2	1.75	30.2	1.15	1.3	6.15	10.90	79	2.0	2.8	81.6	9.07	2.2	37.60	32.00
30	1.5	2.30	31.4	2.00	1.6	8.00	26.00	80	2.0	2.8	82.6	9.22	2.2	38.00	31.40
31	1.5	2.30	32.4	2.03	1.6	8.25	25.60	81	2.0	2.8	83.6	9.31	2.2	38.60	31.30
32	1.5	2.30	33.4	2.11	1.6	8.50	25.00	82	2.0	2.8	84.6	9.45	2.2	39.00	30.70
33	1.5	2.30	34.4	2.26	1.6	8.75	24.60	83	2.0	2.8	85.6	9.63	2.2	39.50	30.10
34	1.5	2.30	35.4	2.34	1.6	9.00	23.80	85	2.0	2.8	87.6	9.81	2.2	40.40	29.60
35	1.5	2.30	36.4	2.36	1.6	9.30	23.30	86	2.0	2.8	88.6	9.91	2.2	40.90	29.00
37	1.5	2.30	38.8	2.53	1.6	11.75	22.00	88	2.5	3.4	91.0	15.40	2.7	46.50	65.80
38	1.5	2.30	39.8	2.61	1.6	12.15	21.60	90	2.5	3.4	93.0	15.60	2.7	47.60	63.50
39	1.5	2.30	40.8	2.67	1.6	12.40	21.00	92	2.5	3.4	95.0	16.60	2.7	48.60	62.00
40	1.5	2.30	41.8	2.80	1.6	12.70	20.70	93	2.5	3.4	96.0	16.80	2.7	49.20	61.80
42	1.5	2.30	43.8	2.92	1.6	13.30	19.80	95	2.5	3.4	98.0	16.90	2.7	50.20	59.30
43	1.5	2.30	44.8	3.03	1.6	13.70	19.60	97	2.5	3.4	100.0	17.10	2.7	51.30	58.20

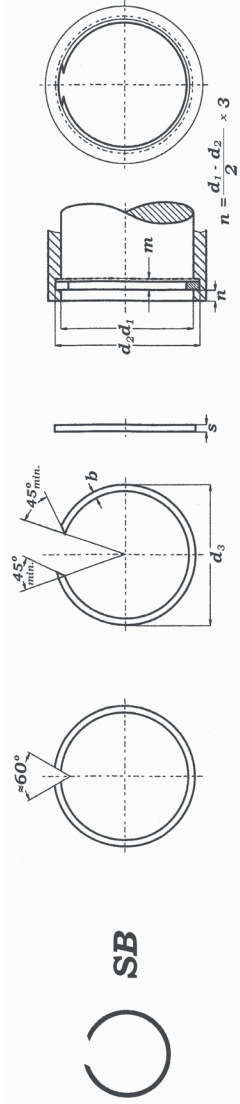


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# PIERŚCIEŃ SB

d <sub>1</sub>	○					H					○					H					DANE	
	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	m min.	FN (kN)	FR (kN)	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	m min.	FN (kN)	FR (kN)	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	m min.	FN (kN)	FR (kN)	
98	2.5	3.4	101.0	17.5	100.0	51.8	56.6	3.0	5.0	205.0	64.5	203.0	158.0	59.0	3.0	5.0	203.0	3.2	3.2	158.0	59.0	
100	2.5	3.4	103.0	17.9	102.0	52.8	55.5	3.0	5.0	210.0	66.4	208.0	162.0	57.8	3.0	5.0	210.0	3.2	3.2	162.0	57.8	
102	2.5	3.4	105.3	18.4	104.3	62.0	53.6	3.0	5.0	215.1	68.8	213.0	166.0	56.8	3.0	5.0	215.1	3.2	3.2	166.0	56.8	
103	2.5	3.4	106.3	18.5	105.3	62.6	53.2	3.0	5.0	220.1	69.8	218.0	169.0	55.5	3.0	5.0	220.1	3.2	3.2	169.0	55.5	
105	2.5	3.4	108.3	18.7	107.3	63.8	51.8	3.0	5.0	225.2	72.4	223.0	173.0	54.4	3.0	5.0	225.2	3.2	3.2	173.0	54.4	
107	2.5	3.4	110.3	19.1	109.3	65.0	50.7	3.0	5.0	230.2	72.9	228.0	177.0	53.3	3.0	5.0	230.2	3.2	3.2	177.0	53.3	
108	2.5	3.4	111.3	19.3	110.3	65.6	50.5	3.0	5.0	235.3	75.2	233.0	181.0	52.0	3.0	5.0	235.3	3.2	3.2	181.0	52.0	
110	2.5	3.4	113.4	19.8	112.3	66.8	49.0	3.0	5.0	243.0	80.9	243.0	189.0	49.6	3.0	5.0	243.0	3.2	3.2	189.0	49.6	
112	2.5	3.4	115.4	20.3	114.3	68.0	47.0	3.0	5.0	255.5	84.2	253.0	197.0	48.5	3.0	5.0	255.5	3.2	3.2	197.0	48.5	
113	2.5	3.4	116.4	20.5	115.3	68.6	46.5	4.0	7.5	267.6	165.0	265.0	343.0	162.0	4.0	7.5	267.6	4.2	4.2	343.0	162.0	
115	2.5	3.4	118.4	20.6	117.3	69.4	45.5	4.0	7.5	277.7	174.0	275.0	356.0	157.0	4.0	7.5	277.7	4.2	4.2	356.0	157.0	
117	2.5	3.4	120.4	20.8	119.3	71.0	44.6	4.0	7.5	287.8	184.0	285.0	369.0	152.0	4.0	7.5	287.8	4.2	4.2	369.0	152.0	
118	2.5	3.4	121.4	21.1	120.3	71.7	44.2	4.0	7.5	297.9	190.0	295.0	382.0	144.0	4.0	7.5	297.9	4.2	4.2	382.0	144.0	
120	2.5	3.4	123.4	21.4	122.3	72.8	43.3	4.0	7.5	307.9	196.0	305.0	395.0	140.0	4.0	7.5	307.9	4.2	4.2	395.0	140.0	
123	2.5	3.4	126.5	22.0	125.3	74.7	41.2	4.0	7.5	318.0	200.0	315.0	408.0	136.0	4.0	7.5	318.0	4.2	4.2	408.0	136.0	
125	2.5	3.4	128.5	22.5	127.3	75.9	40.2	4.0	7.5	328.1	203.0	325.0	422.0	132.0	4.0	7.5	328.1	4.2	4.2	422.0	132.0	
127	2.5	3.4	130.5	23.0	129.3	77.0	39.8	4.0	7.5	333.1	206.0	330.0	428.0	129.0	4.0	7.5	333.1	4.2	4.2	428.0	129.0	
130	2.5	3.4	133.6	23.4	132.3	78.9	38.2	4.0	7.5	338.2	209.0	335.0	435.0	126.0	4.0	7.5	338.2	4.2	4.2	435.0	126.0	
133	2.5	3.4	136.6	24.4	135.3	80.7	36.8	4.0	7.5	348.3	219.0	345.0	448.0	123.0	4.0	7.5	348.3	4.2	4.2	448.0	123.0	
135	2.5	3.4	138.6	25.0	137.3	81.9	36.6	4.0	7.5	358.4	229.0	355.0	452.0	121.0	4.0	7.5	358.4	4.2	4.2	452.0	121.0	
137	2.5	3.4	140.6	25.3	139.3	83.0	35.6	4.0	7.5	363.4	231.0	360.0	467.0	121.0	4.0	7.5	363.4	4.2	4.2	467.0	121.0	
140	2.5	4.0	144.0	29.3	142.6	96.1	40.2	4.0	7.5	368.5	233.0	365.0	487.0	119.0	4.0	7.5	368.5	4.2	4.2	487.0	119.0	
143	2.5	4.0	147.0	30.1	145.6	98.1	38.6	4.0	7.5	378.5	236.0	375.0	493.0	116.0	4.0	7.5	378.5	4.2	4.2	493.0	116.0	
150	2.5	4.0	154.1	31.9	152.6	102.0	36.2	4.0	7.5	383.5	240.0	380.0	500.0	112.0	4.0	7.5	383.5	4.2	4.2	500.0	112.0	
153	2.5	4.0	157.1	32.6	155.6	104.0	35.6	4.0	7.5	388.6	242.0	385.0	513.0	111.0	4.0	7.5	388.6	4.2	4.2	513.0	111.0	
160	2.5	4.0	164.2	34.4	162.6	108.0	34.6	4.0	7.5	398.7	253.0	395.0	520.0	110.0	4.0	7.5	398.7	4.2	4.2	520.0	110.0	
163	2.5	4.0	167.2	34.6	165.6	111.0	33.5	4.0	7.5	403.7	257.0	400.0	526.0	109.0	4.0	7.5	403.7	4.2	4.2	526.0	109.0	
165	2.5	4.0	169.2	34.9	167.6	113.0	32.8	4.0	7.5	408.9	260.0	405.0	529.0	106.0	4.0	7.5	408.9	4.2	4.2	529.0	106.0	
170	2.5	4.0	174.3	36.2	172.6	116.0	32.0	4.0	7.5	419.0	266.0	415.0	546.0	105.0	4.0	7.5	419.0	4.2	4.2	546.0	105.0	
173	2.5	4.0	177.3	37.1	175.6	118.0	32.0	4.0	7.5	424.0	273.0	420.0	552.0	104.0	4.0	7.5	424.0	4.2	4.2	552.0	104.0	
175	2.5	4.0	179.3	37.3	177.6	119.0	31.4	4.0	7.5	429.1	277.0	425.0	553.0	101.0	4.0	7.5	429.1	4.2	4.2	553.0	101.0	
180	2.5	4.0	184.5	38.3	182.6	123.0	30.8	4.0	7.5	439.2	285.0	435.0	565.0	100.0	4.0	7.5	439.2	4.2	4.2	565.0	100.0	
183	2.5	4.0	187.5	41.0	185.6	125.0	30.0	4.0	7.5	449.3	294.0	445.0	578.0	98.0	4.0	7.5	449.3	4.2	4.2	578.0	98.0	
190	3.0	5.0	194.9	61.3	193.0	150.0	62.8	3.2	7.5	450.0	294.0	445.0	578.0	98.0	4.0	7.5	449.3	4.2	4.2	578.0	98.0	
195	3.0	5.0	199.9	61.6	198.0	154.0	61.5	3.2	7.5	450.0	294.0	445.0	578.0	98.0	4.0	7.5	449.3	4.2	4.2	578.0	98.0	



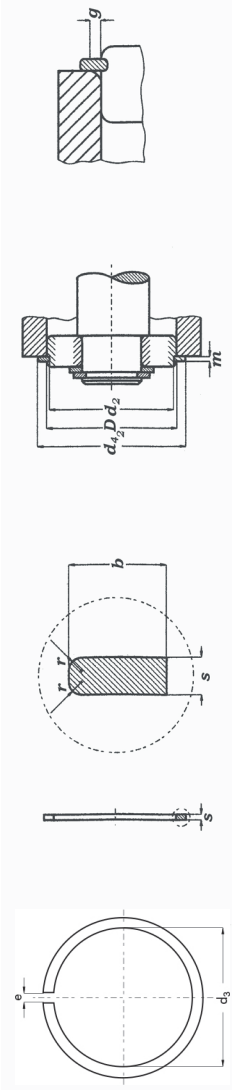
# industrial - inox

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**PIERŚCIEŃ SP - DIN 5417**

D	D A N E																				
	s	Δ	b	Δ	d <sub>3</sub>	Δ	e	r	r min.	Δ	d <sub>2</sub>	Δ	m	Δ	d <sub>d2</sub>	FN (kN)	FR (kN)	g	FRg (kN)	K (kN/mm)	nobl. x1000 (rpm)
30	1.12		3.25		27.4		3	0.4	2.8		28.17		1.35		34.7	13.7	22.2	2.0	3.90	32.0	16
32	1.12		3.25		29.4		3	0.4	3.0		30.15		1.35		36.7	14.6	20.6		3.66	30.0	13
35	1.12		3.25		32.4	+0.4	3	0.4	3.2		33.17		1.35		39.7	16.0	19.0		3.52	28.0	11
37	1.12		3.25		34.0		3	0.4	3.4		34.77		1.35		41.3	20.7	17.8		3.22	26.6	10
40	1.12		3.25		37.3		3	0.4	3.6		38.10		1.35		44.6	19.3	16.0		2.96	24.2	8
42	1.12		3.25		38.9		3	0.4	3.8		39.75		1.35		46.3	23.5	15.2	2.0	2.85	23.4	7
44	1.12		3.25		40.9		3	0.4	4.0		41.75	-0.25	1.35		48.3	24.6	14.6		2.75	22.6	7
47	1.12		4.04		43.7	+0.5	4	0.4	5.3		44.60		1.35		52.7	28.8	16.3		3.12	25.6	7
50	1.12		4.04		46.6		4	0.4	5.8		47.60		1.35		55.7	30.6	15.2		2.97	24.3	6
52	1.12		4.04		48.8		4	0.4	5.9		49.73		1.35		57.9	31.6	14.5	2.5	2.30	23.4	6
55	1.12		4.04		51.7		4	0.4	6.2		52.60		1.35		60.7	33.8	13.4	2.5	2.16	22.0	5
56	1.12		4.04		52.4		4	0.4	6.5		53.60		1.35		61.7	34.5	13.2		2.14	21.0	5
58	1.12		4.04		54.4		4	0.4	6.7		55.60		1.35		63.7	35.6	12.6		2.06	21.0	5
62	1.70		4.04		58.2		4	0.6	10.5		59.61		1.90		67.7	38.1	40.6		6.75	69.0	5
65	1.70		4.04		61.2		4	0.6	11.0		62.60		1.90		70.7	40.0	38.4		6.50	66.0	4
68	1.70	-0.1	4.85		63.4		5	0.6	12.6		64.82		1.90		74.6	55.5	43.0	2.5	7.30	75.0	4
72	1.70		4.85	-0.15	67.4		5	0.6	14.7		68.81		1.90	+0.3	78.6	59.0	40.0		6.95	71.0	4
75	1.70		4.85		70.4	+0.8	5	0.6	15.3		71.83		1.90		81.6	61.5	37.2		6.60	67.0	3
80	1.70		4.85		75.4		5	0.6	16.3		76.81		1.90		86.6	65.7	34.8	3.0	5.25	64.0	3
85	1.70		4.85		80.4		5	0.6	17.5		81.81		1.90		91.6	70.0	32.5		5.00	61.0	3
90	2.46		4.85		85.4		5	0.7	26.6		86.79		2.70		96.5	74.0	90.5	3.0	14.30	174.0	2
95	2.46		4.85		90.4		5	0.7	28.2		91.82		2.70		101.6	76.3	83.5	3.5	11.50	164.0	2
100	2.46		4.85		95.2		5	0.7	29.2		96.80		2.70		106.5	82.5	77.5		10.90	155.0	2
110	2.46		4.85		105.2		5	0.7	32.8		106.81		2.70		116.6	90.7	69.0		10.10	143.0	1
115	2.46		4.85		110.2		5	0.7	34.4		111.81	-0.50	2.70		121.6	97.7	64.0		9.60	136.0	1
120	2.82		7.21		113.6	+1.0	7	0.7	60.6		115.21		3.10		129.7	143.0	134.0	3.5	20.20	290.0	2
125	2.82		7.21		118.6		7	0.7	63.0		120.22		3.10		134.7	155.0	127.0	4.0	17.30	280.0	2
130	2.82		7.21		123.6		7	0.7	65.6		125.22		3.10		139.7	166.0	121.0		16.70	270.0	1
140	2.82		7.21		133.0		7	0.7	70.6		135.23		3.10		149.7	180.0	108.0		15.50	250.0	1
145	2.82		7.21		138.0		7	0.7	73.0		140.23		3.10		154.7	186.0	102.0		14.80	240.0	1
150	2.82		7.21		142.9	+1.6	7	0.7	77.2		145.24		3.10		159.7	193.0	94.0	4.0	13.90	235.0	1
160	2.82		7.21		152.9		7	0.7	81.0		155.22		3.10		169.7	206.0	89.0		13.60	220.0	1
170	3.10		9.60		161.3		10	0.7	122.0		163.65		3.50		182.9	283.0	151.0	5.0	17.90	360.0	1
180	3.10		9.60		171.2		10	0.7	128.0		173.66		3.50		192.9	292.0	145.0		17.10	345.0	1
190	3.10		9.60		181.0	+1.8	10	0.7	139.0		183.64		3.50		202.9	311.0	140.0		16.20	328.0	1

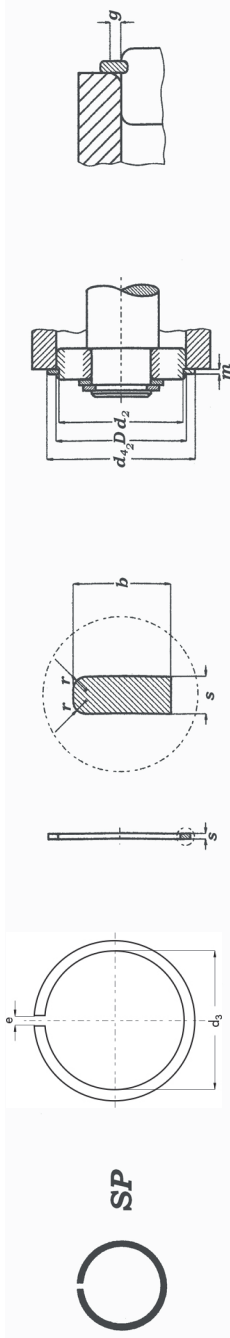


**SP industrial - inox**

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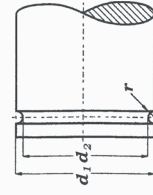
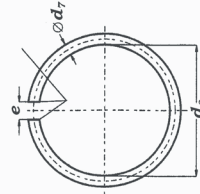
# PIERŚCIEŃ SP - DIN 5417

D	D A N E																					
	s	$\Delta$	b	$\Delta$	$d_3$	$\Delta$	$d_3$	$e$	$r$	$r_{min.}$	$\Delta$	$d_2$	$\Delta$	m	$\Delta$	$d_{d_2}$	FN (kN)	FR (kN)	g	FRg (kN)	K (kN/mm)	$n_{obl.}$ x1000 (rpm)
200	3.10		9.60		191.0		193.65	10	0.7	148.0		193.65		3.50		212.9	336.0	132.0	5.0	15.50	312.0	1.0
210	3.10		9.60		200.9		203.60	10	1.2	156.0		203.60		3.50	+0.3	222.8	356.0	124.0	6.0	12.30	298.0	1.0
215	3.10		9.60		205.9		208.60	10	1.2	160.0		208.60		3.50		227.8	376.0	120.0		11.90	288.0	1.0
225	3.50	-0.15	10.00		214.3		217.00	10	1.2	196.0	+1.8	217.00		4.50		237.0	462.0	172.0		17.10	414.0	1.0
230	3.50		10.00		219.2		222.00	10	1.2	200.0		222.00		4.50		242.0	473.0	169.0		16.80	406.0	1.0
240	3.50	-0.1	10.00		229.2		232.00	10	1.2	209.0		232.00		4.50		252.0	495.0	162.0	6.0	16.20	392.0	0.5
250	3.50		10.00		239.2		242.00	10	1.2	220.0		242.00		4.50	+0.4	262.0	514.0	156.0		15.40	373.0	0.5
260	3.50		10.00		247.5		252.00	10	1.2	230.0		252.00		4.50		272.0	536.0	151.0		15.00	362.0	0.5
270	3.50		10.00		257.5		262.00	10	1.2	240.0		262.00		4.50		282.0	556.0	145.0		14.40	348.0	0.5
280	3.50		10.00		267.5		272.00	10	1.2	250.0	+2.5	272.00	-0.50	4.50		292.0	578.0	140.0		13.90	335.0	0.5
290	3.50		10.00		277.5		282.00	10	1.2	260.0		282.00		4.50		302.0	598.0	135.0	6.0	13.40	323.0	0.4
300	4.50		12.00		284.5		290.00	10	1.5	400.0		290.00		5.50		314.0	694.0	332.0		33.00	795.0	0.6
310	4.50		12.00		294.0		300.00	10	1.5	412.0		300.00		5.50		324.0	800.0	320.0	7.0	27.30	770.0	0.5
320	4.50	-0.30	12.00		304.0		310.00	10	1.5	420.0		310.00		5.50		334.0	824.0	312.0		26.50	747.0	0.5
340	4.50		12.00		324.0		330.00	10	1.5	446.0		330.00		5.50		354.0	875.0	293.0		25.00	702.0	0.4
360	4.50	-0.2	12.00		343.0		350.00	10	1.5	475.0	+3.0	350.00		5.50	+0.5	374.0	930.0	276.0	7.0	23.40	660.0	0.4
370	4.50		12.00		353.0		360.00	10	1.5	485.0		360.00		5.50		384.0	955.0	267.0		22.70	640.0	0.4
380	4.50		12.00		363.0		370.00	10	1.5	500.0		370.00		5.50		394.0	995.0	262.0		22.40	630.0	0.4
400	4.50		12.00		383.0		390.00	10	1.5	525.0		390.00		5.50		414.0	1040.0	250.0		21.40	601.0	0.3



**PIERŚCIEŃ RW - DIN 7993**

d <sub>1</sub>	○				⌘				○				⌘					
	d <sub>7</sub>	d <sub>3</sub>	Δ	e ≈	Δ (kg/1000)	d <sub>2</sub>	Δ	r	n <sub>det.</sub> x 1000 (rpm)	d <sub>1</sub>	d <sub>7</sub>	d <sub>3</sub>	Δ	e ≈	Δ (kg/1000)	d <sub>2</sub>	r	n <sub>det.</sub> x 1000 (rpm)
4	0.8	3.1	-0.2	1	0.044	3.2		0.5	175	40	2.5	37.1	-0.6	4	4.64	37.5	1.4	6
5	0.8	4.1		1	0.057	4.2		0.5	112	42	2.5	39.0		4	4.87	39.5	1.4	5
6	0.8	5.1		1	0.069	5.2		0.5	77	45	2.5	42.0		4	5.23	42.5	1.4	4
7	0.8	6.1		2	0.077	6.2		0.5	57	48	2.5	45.0		4	5.60	45.5	1.4	4
8	0.8	7.1	-0.3	2	0.090	7.2		0.5	44	50	2.5	47.0	-0.8	4	5.83	47.5	1.4	4
10	0.8	9.1		2	0.115	9.2	±0.05	0.5	28	55	3.2	51.1		4	10.51	51.8	1.8	4
12	1.0	10.8		3	0.210	11.0		0.6	24	60	3.2	56.1		4	11.50	56.8	1.8	3
14	1.0	12.8		3	0.250	13.0		0.6	18	65	3.2	61.1		4	12.49	61.8	1.8	3
16	1.6	14.2	-0.4	3	0.740	14.4		0.9	22	70	3.2	66.0		5	13.40	66.8	1.8	2
18	1.6	16.2		3	0.830	16.4		0.9	17	75	3.2	71.0		5	14.39	71.8	1.8	2
20	2.0	17.7		3	1.450	18.0		1.1	18	80	3.2	76.0	-1.0	5	15.38	76.8	1.8	2
22	2.0	19.7		3	1.600	20.0		1.1	15	85	3.2	81.0		5	16.38	81.8	1.8	2
24	2.0	21.7		3	1.780	22.0		1.1	12	90	3.2	86.0		5	17.37	86.8	1.8	1
25	2.0	22.7		3	1.840	23.0		1.1	11	95	3.2	91.0		5	18.36	91.8	1.8	1
26	2.0	23.7	-0.5	3	1.910	24.0		1.1	10	100	3.2	95.8		5	19.31	96.8	1.8	1
28	2.0	25.7		3	2.070	26.0	±0.10	1.1	9	105	3.2	100.8		5	20.30	101.8	1.8	1
30	2.0	27.7		3	2.220	28.0		1.1	8	110	3.2	105.8	-1.2	5	21.29	106.8	1.8	1
32	2.5	29.1		4	3.670	29.5		1.4	9	115	3.2	110.8		5	22.29	111.8	1.8	1
35	2.5	32.1	-0.6	4	3.980	32.5		1.4	7	120	3.2	115.8		5	23.28	116.8	1.8	1
38	2.5	35.1		4	4.400	35.5		1.4	6	125	3.2	120.8		5	24.27	121.8	1.8	1

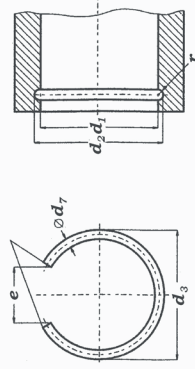


○ | RW - DIN 7993



# PIERŚCIEŃ RB - DIN 7993

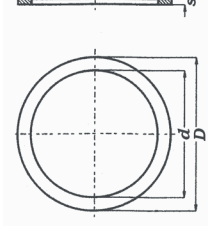
d <sub>1</sub>	○				⌘				○				⌘				
	d <sub>7</sub>	d <sub>3</sub>	Δ	e	⌘ (kg/1000)	d <sub>2</sub>	Δ	r	d <sub>1</sub>	d <sub>7</sub>	d <sub>3</sub>	Δ	e	⌘ (kg/1000)	d <sub>2</sub>	Δ	r
7	0.8	7.9		4	0.071	7.8		0.5	45	2.5	48.8		16	4.89	47.5		1.4
8	0.8	8.9	+0.3	4	0.083	8.8		0.5	48	2.5	51.0		16	5.24	50.5	±0.10	1.4
10	0.8	10.9		4	0.108	10.8		0.5	50	2.5	53.0		16	5.51	52.5		1.4
12	1.0	13.2		6	0.196	13.0	±0.05	0.6	55	3.2	58.9	+0.8	20	9.77	58.2		1.8
14	1.0	15.2	+0.4	6	0.234	15.0		0.6	60	3.2	63.9		20	10.76	63.2		1.8
16	1.6	17.8		8	0.706	17.6		0.9	65	3.2	68.9		20	11.75	68.2		1.8
18	1.6	19.8		8	0.804	19.6		0.9	70	3.2	74.0		25	12.44	73.2		1.8
20	2.0	22.3		10	1.320	22.0		1.1	75	3.2	79.0		25	13.43	78.2		1.8
22	2.0	24.3		10	1.470	24.0		1.1	80	3.2	84.0	+1.0	25	14.42	83.2		1.8
24	2.0	26.3		10	1.630	26.0		1.1	85	3.2	89.0		25	15.41	88.2		1.8
25	2.0	27.3	+0.5	10	1.700	27.0		1.1	90	3.2	94.0		25	16.40	93.2	±0.15	1.8
26	2.0	28.3		10	1.790	28.0		1.1	95	3.2	99.0		25	17.39	98.2		1.8
28	2.0	30.3		10	1.940	30.0		1.1	100	3.2	104.2		32	17.98	103.2		1.8
30	2.0	32.3		10	2.100	32.0	±0.10	1.1	105	3.2	109.2		32	18.98	108.2		1.8
32	2.5	34.9		12	3.470	34.5		1.4	110	3.2	114.2		32	19.97	113.2		1.8
35	2.5	37.9	+0.6	12	3.850	37.5		1.4	115	3.2	119.2	+1.2	32	20.96	118.2		1.8
38	2.5	40.9		12	4.200	40.5		1.4	120	3.2	124.2		32	21.95	123.2		1.8
40	2.5	42.9		12	4.430	42.5		1.4	125	3.2	129.2		32	22.94	128.2		1.8
42	2.5	45.0	+0.8	16	4.540	44.5		1.4									



○ RB - DIN 7993

# PODKŁADKI DYSTANSOWE PS - DIN 988

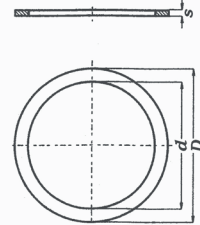
Ø		$\Delta$ kg/1000																			
d	D	0.1	-0.03	0.15	-0.04	0.2	-0.04	0.25	-0.04	0.3	-0.05	0.5	-0.05	1.0	-0.05	1.2	-0.07	1.5	-0.07	2.0	-0.07
3	6	0.016		0.024	0.032	0.040	0.050	0.083	0.165												
4	8	0.030		0.045	0.060	0.075	0.089	0.148	0.296												
5	10	0.046		0.069	0.092	0.115	0.139	0.231	0.462												
6	12	0.067		0.101	0.134	0.168	0.200	0.333	0.666												
7	13	0.074		0.111	0.148	0.185	0.221	0.369	0.738												
8	14	0.082		0.123	0.164	0.205	0.245	0.408	0.815												
9	15	0.089		0.134	0.178	0.223	0.270	0.445	0.891												
10	16	0.096		0.144	0.192	0.240	0.290	0.481	0.963												
11	17	0.103		0.155	0.206	0.258	0.310	0.515	1.030												
12	18	0.111		0.167	0.222	0.278	0.332	0.555	1.110												
13	19	0.119		0.179	0.237	0.296	0.357	0.595	1.190							1.428					
14	20	0.126		0.189	0.252	0.315	0.378	0.630	1.260							1.512					
15	21	0.133		0.199	0.266	0.333	0.399	0.665	1.330							1.596					
15	22	0.137		0.205	0.274	0.342	0.410	0.683	1.360							1.636					
16	22	0.140		0.210	0.280	0.350	0.420	0.700	1.400							1.680					
17	24	0.177		0.266	0.354	0.443	0.530	0.885	1.770							2.124					
18	25	0.185		0.278	0.370	0.463	0.551	0.925	1.850							2.220					
19	26	0.194		0.291	0.388	0.485	0.584	0.970	1.940							2.328					
20	28	0.236		0.354	0.472	0.590	0.710	1.180	2.360							2.832				3.540	
22	30	0.257		0.386	0.514	0.643	0.770	1.280	2.570							3.084				3.855	
22	32	0.333		0.500	0.666	0.833	1.000	1.660	3.330							3.996				4.995	
25	35	0.370		0.555	0.740	0.925	1.110	1.850	3.700							4.440				5.550	
25	36	0.414		0.621	0.828	1.035	1.240	2.070	4.140							4.968				6.210	
26	37	0.427		0.641	0.854	1.068	1.280	2.130	4.270							5.124				6.400	
28	40	0.503		0.755	1.006	1.258	1.510	2.510	5.030							6.036				7.540	
30	42	0.535		0.803	1.070	1.338	1.600	2.680	5.350							6.420				8.030	10.7
32	45	0.619		0.929	1.238	1.548	1.860	3.100	6.190							7.430				9.290	12.4
35	45	0.495		0.743	0.990	1.238	1.490	2.480	4.950							5.940				7.430	9.9
36	45	0.451		0.677	0.902	1.128	1.350	2.250	4.510							5.410				6.760	9.0
37	47	0.516		0.774	1.032	1.290	1.550	2.580	5.160							6.190				7.740	10.3
40	50	0.554		0.831	1.108	1.385	1.690	2.770	5.540							6.650				8.310	11.1
42	52	0.580		0.870	1.060	1.350	1.730	2.900	5.780							6.930				8.680	11.5
45	55	0.620		0.930	1.220	1.530	1.850	3.100	6.200							7.440				9.300	12.4
45	56	0.680		1.020	1.360	1.700	2.040	3.400	6.800							8.160				10.200	13.6
48	60	0.790		1.180	1.580	1.970	2.370	3.950	7.900							9.480				11.800	15.8



PS - DIN 988

# PODKŁADKI DYSTANSOWE PS - DIN 988

Ø		>■< / Δ											kg/1000								
d	D	0.1	-0.03	0.15	-0.04	0.2	-0.04	0.25	-0.04	0.3	-0.05	0.5	-0.05	1.0	-0.05	1.2	-0.07	1.5	-0.07	2.0	-0.07
50	62	0.83		1.24	1.66	2.07	2.49	4.15	8.30	12.40	16.60	20.90	25.10	31.40	33.30	35.10	37.10	38.90	41.80	44.40	46.80
50	63	0.91		1.36	1.82	2.27	2.73	4.55	9.10	13.60	18.20	22.20	26.60	33.30	34.70	36.20	37.60	39.10	41.80	44.40	46.80
52	65	0.94		1.41	1.88	2.35	2.82	4.70	9.40	14.10	18.80	23.40	28.10	35.10	36.60	38.10	39.60	41.10	43.80	46.40	48.80
55	68	0.98		1.47	1.96	2.45	2.92	4.90	9.80	14.70	19.60	24.70	29.60	37.10	38.60	40.10	41.60	43.10	45.80	48.40	50.80
56	70	1.09		1.64	2.18	2.73	3.27	5.45	10.90	16.40	21.80	27.20	32.60	40.10	41.60	43.10	44.60	46.10	48.80	51.40	53.80
56	72	1.27		1.90	2.54	3.17	3.80	6.35	12.70	19.00	25.40	31.70	38.00	46.10	47.60	49.10	50.60	53.30	55.90	58.50	60.90
60	75	1.25		1.87	2.50	3.12	3.75	6.25	12.50	18.70	25.00	31.20	37.50	45.30	46.80	48.30	49.80	52.50	55.10	57.70	60.10
63	80	1.50		2.25	3.00	3.75	4.50	7.50	15.00	22.50	30.00	37.50	45.00	54.00	55.50	57.00	58.50	61.20	63.80	66.40	68.80
65	85	1.85		2.77	3.70	4.62	5.55	9.25	18.50	27.70	37.00	46.20	55.50	66.00	67.50	69.00	70.50	73.20	75.80	78.40	80.80
70	90	1.97		2.95	3.94	4.92	5.90	9.85	19.70	29.50	39.40	49.20	59.00	70.00	71.50	73.00	74.50	77.20	79.80	82.40	84.80
75	95	2.09		3.13	4.18	5.22	6.28	10.50	20.90	31.40	41.80	52.20	62.80	74.50	76.00	77.50	79.00	81.70	84.30	86.90	89.30
80	100	2.22		3.33	4.44	5.55	6.65	11.10	22.20	33.30	44.40	55.50	66.60	79.00	80.50	82.00	83.50	86.20	88.80	91.40	93.80
85	105	2.34		3.51	4.68	5.85	7.05	11.70	23.40	35.10	46.80	58.50	70.20	83.00	84.50	86.00	87.50	90.20	92.80	95.40	97.80
90	110	2.47		3.70	4.94	6.17	7.40	12.40	24.70	37.10	49.40	61.70	74.00	87.00	88.50	90.00	91.50	94.20	96.80	99.40	101.80
95	115	2.59		3.88	5.18	6.47	7.77	13.00	25.90	38.90	51.80	64.70	77.60	91.00	92.50	94.00	95.50	98.20	100.80	103.40	105.80
100	120	2.72		4.08	5.44	6.80	8.15	13.60	27.20	40.80	54.40	68.00	81.50	95.00	96.50	98.00	100.00	103.00	106.00	109.00	111.80
100	125	3.47		5.20	6.94	8.67	10.40	17.30	34.70	51.40	68.10	84.80	101.50	120.00	121.50	123.00	125.00	128.00	131.00	134.00	136.80
105	130	3.62		5.43	7.22	9.05	10.80	18.10	36.20	52.90	69.60	86.30	103.00	121.00	122.50	124.00	126.00	129.00	132.00	135.00	137.80
110	140	4.62		6.93	9.22	11.50	13.90	23.10	46.20	69.30	92.40	115.50	138.60	161.70	163.20	164.70	166.70	170.00	173.00	176.00	178.80
120	150	5.00		7.50	10.00	12.50	15.00	25.00	50.00	75.00	100.00	125.00	150.00	175.00	176.50	178.00	180.00	183.00	186.00	189.00	191.80
130	160	5.36		8.04	10.70	13.40	16.10	26.80	53.60	80.40	107.00	133.60	160.20	186.80	188.30	189.80	191.80	195.00	198.00	201.00	203.80
140	170	5.73		8.60	11.50	14.30	17.20	28.50	57.30	86.00	115.00	143.00	172.00	200.00	201.50	203.00	205.00	208.00	211.00	214.00	216.80
150	180	6.10		9.15	12.20	15.20	18.30	30.50	61.00	91.50	122.00	152.00	18.30	210.00	211.50	213.00	215.00	218.00	221.00	224.00	226.80
160	190	6.47		9.70	12.90	16.20	19.40	32.30	64.70	97.00	129.00	162.00	19.40	218.00	219.50	221.00	223.00	226.00	229.00	232.00	234.80
170	200	6.85		10.30	13.70	17.10	20.60	34.30	68.50	103.00	137.00	171.00	20.60	226.00	227.50	229.00	231.00	234.00	237.00	240.00	242.80



PS - DIN 988



# PODKŁADKI DYSTANSOWE SS - DIN 988

Ø		>■<			Ø		>■<			Ø		>■<		
d	D	s	Δ	A (kg/1000)	d	D	s	Δ	A (kg/1000)	d	D	s	Δ	A (kg/1000)
3	6	1.0		0.165	22	32	2.0		6.66	56	72	3.0		38.0
4	8	1.0		0.296	25	35	2.0		7.40	60	75	3.0		37.5
5	10	1.0		0.462	25	36	2.0		8.28	63	80	3.0		45.0
6	12	1.2		0.800	26	37	2.0		8.54	65	85	3.5		63.0
7	13	1.2		0.885	28	40	2.0		10.06	70	90	3.5		69.0
8	14	1.2		0.980	30	42	2.5	-0.05	13.40	75	95	3.5	-0.06	73.2
9	15	1.2		1.070	32	45	2.5		15.50	80	100	3.5		77.8
10	16	1.2		1.150	35	45	2.5		12.30	85	105	3.5		82.0
11	17	1.2		1.233	36	45	2.5		11.30	90	110	3.5		86.5
12	18	1.2		1.330	37	47	2.5		12.90	95	115	3.5		90.7
13	19	1.5	-0.05	1.780	40	50	2.5		13.90	100	120	3.5		95.2
14	20	1.5		1.890	42	52	2.5		14.50	100	125	3.5		122.0
15	21	1.5		2.000	45	55	3.0		18.60	105	130	3.5		127.0
15	22	1.5		2.050	45	56	3.0		20.40	110	140	3.5		162.0
16	22	1.5		2.100	48	60	3.0		23.70	120	150	3.5		175.0
17	24	1.5		2.650	50	62	3.0	-0.06	24.90	130	160	3.5	-0.08	188.0
18	25	1.5		2.780	50	63	3.0		27.30	140	170	3.5		201.0
19	26	1.5		2.910	52	65	3.0		28.20	150	180	3.5		214.0
20	28	2.0		4.720	55	68	3.0		29.30	160	190	3.5		227.0
22	30	2.0		5.140	56	70	3.0		32.70	170	200	3.5		240.0



SS - DIN 988

