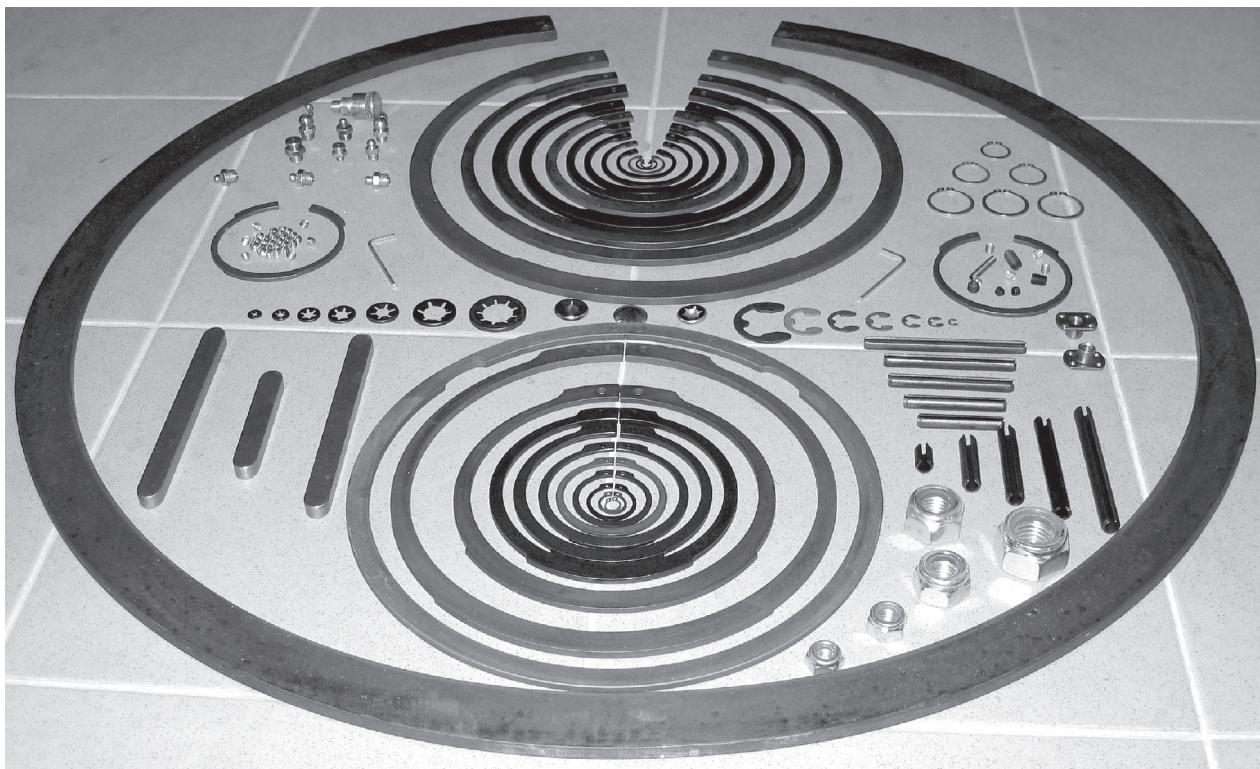




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# KATALOG

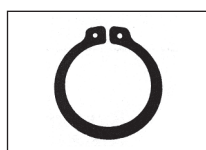


[www.segery.eu](http://www.segery.eu)

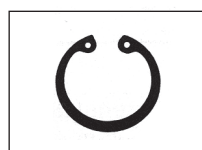
*Nie oferujemy wszystkiego ale to w czym jesteśmy najlepsi !*



## pierścienie osadcze - retaining rings - кольца стопорные



**DIN 471**  
str. 1-7, 16, 17



**DIN 472**  
str. 8-14, 18, 19



**DIN 6799**  
str. 15



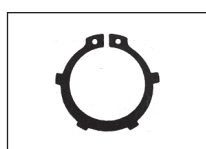
**H**  
str. 27



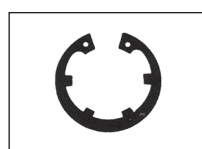
**N**



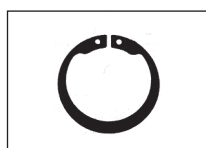
**G**  
str. 28



**AK**  
**DIN 983**  
str. 20, 21



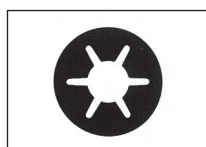
**JK**  
**DIN 984**  
str. 22, 23



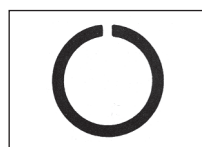
**AV**  
str. 24



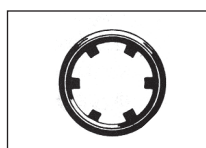
**JV**  
str. 25, 26



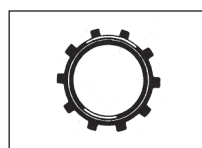
**KS**  
str. 29



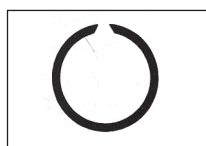
**SP**  
**DIN 5417**  
str. 36, 37



**ZA**  
str. 30



**ZJ**  
str. 31



**SW**  
str. 32, 33



**SB**  
str. 34, 35



**RW**  
**DIN 7993**  
str. 38



**RB**  
**DIN 7993**  
str. 39



**SS**  
**DIN 988**  
str. 42



**PS**  
**DIN 988**  
str. 40, 41



pozostały asortyment - range of products - ассортимент продукции

## Grupa kołków sprężystych str. 45-50

ISO 8752 ( DIN 1481 )

ISO 13337

ISO 8750

ISO 8748



## Grupa zapinek str. 43

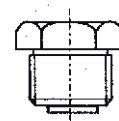
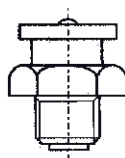
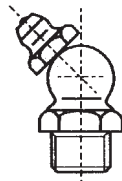
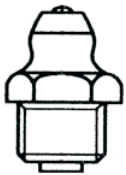
Zapinki X

Zapinki X z puklem

Zapinki Y ( RESS )



## Grupa smarowniczek str. 51



## Grupa wkrętów dociskowych str. 51

DIN 913

DIN 914

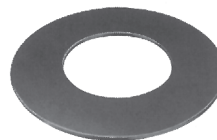
DIN 915

DIN 916



## Grupa sprężyn talerzowych str. 52

DIN 2093



## Grupa wpustów str. 53

wpusty pryzmatyczne  
DIN 6885

wpusty czółenkowe  
DIN 6888



## Grupa pierścieni rozporowych str. 54

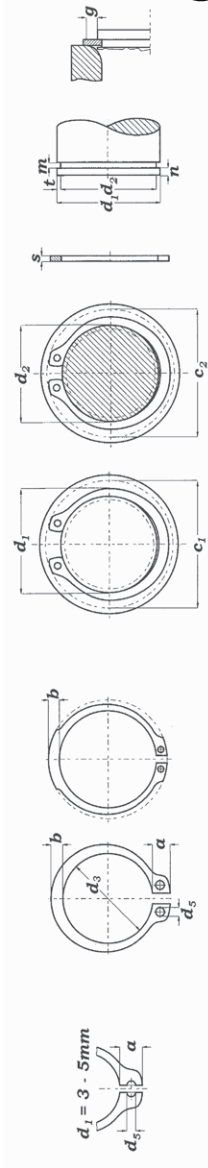


## Grupa obejm



# 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> ×1000 (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		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	+0.06	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	-0.18	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



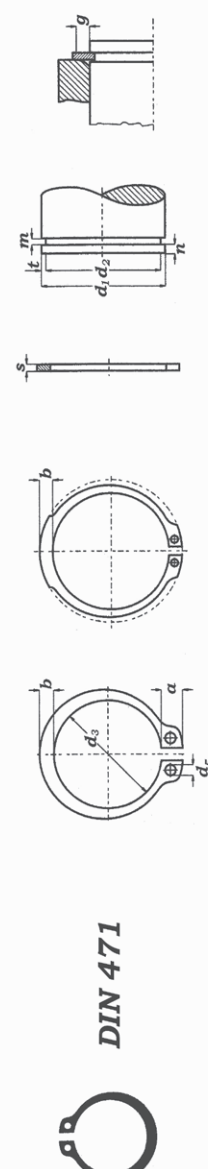
# industrial - inox

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 kom. 601 53 33 66, 504 25 99 11, e-mail: industrial@segey.com.pl www.segey.eu



# 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	+0.25/-0.50	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	-0.35	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		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



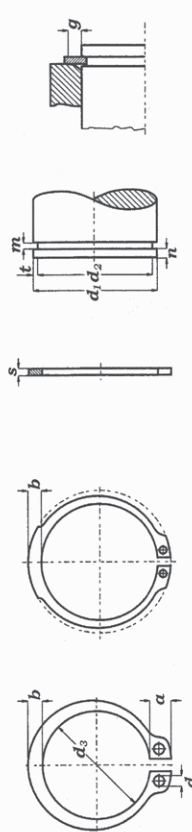
DIN 471

**industrial - inox**

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kom. 601 53 33 66, 504 25 99 11, e-mail: industrial@segey.com.pl www.segey.eu

# 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)
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

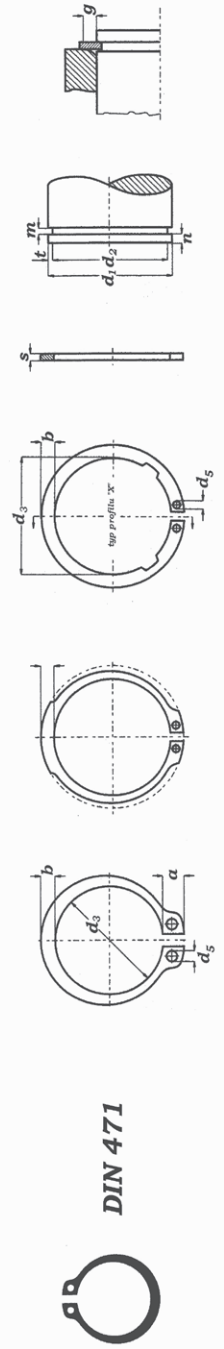


industrial - inox

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# PIERŚCIEŃNIE OSADCZE DIN 471

d <sub>1</sub>	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
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	165.0		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	-0.12	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

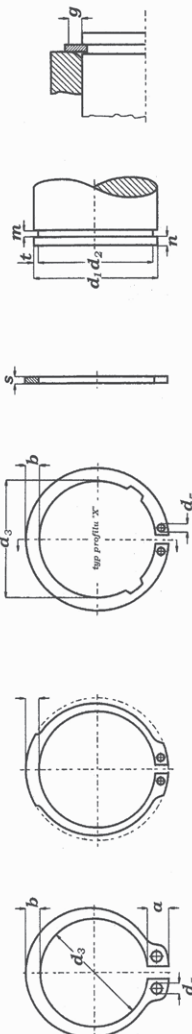
**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 471

d <sub>1</sub>	D A N E										n <sub>det.</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	9.0	380	515	6.0	51.50	2280	1180
247	5.00		233.0		14.2	14.0	4.0	325	241		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	+0.72	14.2	14.0	4.0	335	244		5.15	3.00	12.0	388	504		50.50	2330	1155
252	5.00		238.0	-1.70	16.2	16.0	5.0	335	244		5.15	4.00		519	563		56.40	3115	1290
255	5.00		240.0		16.2	16.0	5.0	348	247		5.15	4.00	12.0	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	12.0	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	12.0	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		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		270.0	+0.81	16.2	16.0	5.0	410	277		5.15	4.00	12.0	587	499	6.0	50.00	3525	1143
287	5.00		270.0	-2.00	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	12.0	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



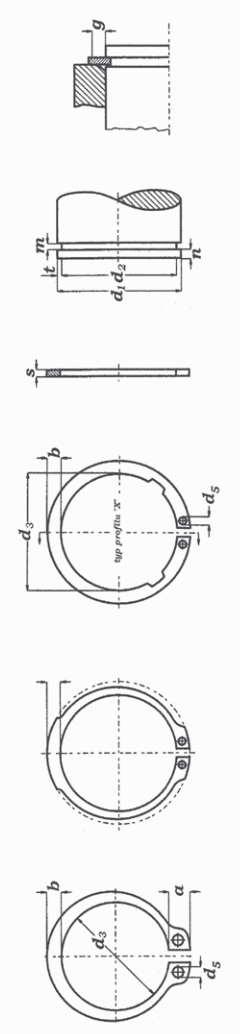
# industrial - inox

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# PIERŚCIENIE OSADCZE DIN 471

d <sub>1</sub>	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
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		378.0	-0.15	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	18.0	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	+1.00	450.0		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	21.0	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		26.0	6.0	2445	526		8.20	7.00		1953	1846		158.00	11721	4229	0.4
550	8.00	+1.50	525.0		26.0	6.0	2490	536		8.20	7.00		1986	1812		155.00	11920	4150	0.4
560	8.00	-3.00	535.0		26.0	6.0	2580	546		8.20	7.00		2026	1777		153.00	12161	4071	0.4



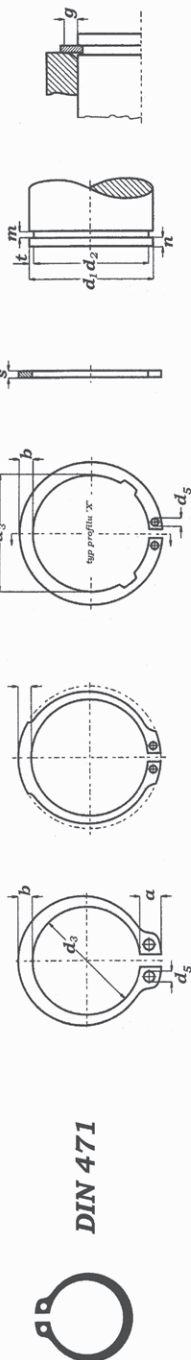
DIN 471



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# PIERŚCIENIE OSADCZE DIN 471

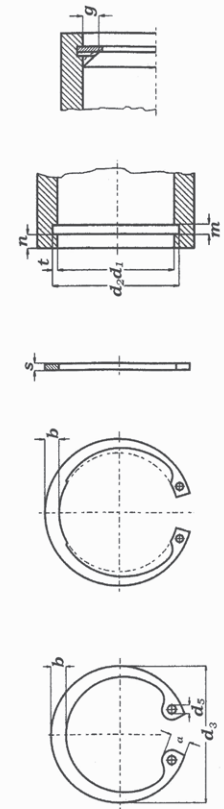
d <sub>1</sub>	Ø					H					D A N E								
	s	Δ	d <sub>3</sub>	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	B	n <sub>det.</sub> x1000 (rpm)
570	8.00		545.0		26.0	6.0	2670	556		8.20	7.00	21.0	2063	1750	7.0	150.00	12381	4009	0.40
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>	DANE																		
	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)
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		15.40	26.2	1.5	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



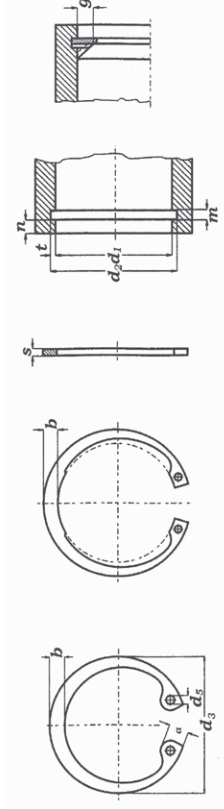
**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	C										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> )	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

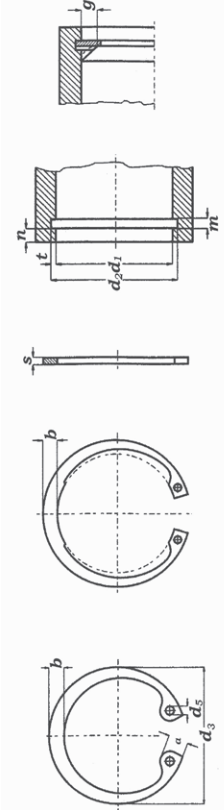
# industrial - inox

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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		11.2	10.5	4.0	84.0	139.0		4.15	2.00		143.0	358		67.0	860	781
137	4.00	+1.50	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	-0.63	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

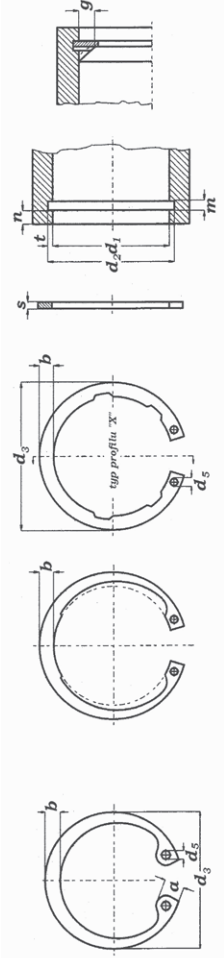


**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

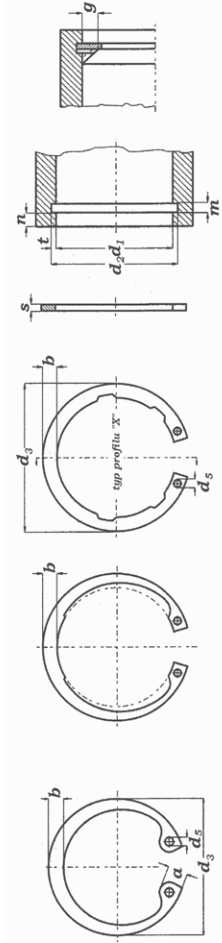
d <sub>1</sub>	C										D A N E								
	s	Δ	d <sub>3</sub>	Δ	α max.	b ≈	d <sub>5</sub> min.	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN·mm)
162	4.00		171.5		13.0	11.7	4.0	118.0	167.0		4.15	2.50	7.5	215.0	321	3.5	54.5	1290	736
165	4.00		174.5		13.0	11.8	4.0	125.0	170.0		4.15	2.50		219.0	319		54.0	1315	732
167	4.00	+1.50	177.5		13.5	12.1	4.0	135.0	172.0		4.15	2.50		221.0	355		60.0	1330	814
168	4.00	-0.63	177.5		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		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

# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	C										H						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)			
232	5.00		242.0		14.2	14.0	4.0	330	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	338	241		5.15	3.00		373	536		79.50	2240	1229			
237	5.00		247.0		14.2	14.0	4.0	338	243		5.15	3.00		376	531		79.00	2260	1217			
238	5.00		252.0		14.2	14.0	4.0	345	244		5.15	3.00		378	530		79.00	2270	1214			
240	5.00		252.0		14.2	14.0	4.0	345	246		5.15	3.00		380	525		77.50	2285	1204			
242	5.00		252.0		14.2	14.0	4.0	345	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	353	251		5.15	3.00		389	514		76.50	2335	1178			
247	5.00		257.0		14.2	14.0	4.0	353	253		5.15	3.00		392	509		76.00	2365	1167			
248	5.00		262.0		14.2	14.0	4.0	360	254		5.15	3.00		394	507		75.50	2365	1163			
250	5.00		262.0		14.2	14.0	4.0	360	256		5.15	3.00		396	504		75.00	2380	1155			
252	5.00		262.0		14.2	16.0	5.0	360	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	368	263		5.15	4.00		541	549		81.50	3250	1259			
257	5.00		270.0		16.2	16.0	5.0	368	265		5.15	4.00		546	545		81.00	3280	1249			
258	5.00		275.0		16.2	16.0	5.0	375	266		5.15	4.00		548	543		80.50	3290	1244			
260	5.00		275.0		16.2	16.0	5.0	375	268		5.15	4.00		553	538		80.00	3320	1234			
262	5.00		275.0		16.2	16.0	5.0	375	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	383	273		5.15	4.00		563	528		78.50	3380	1210			
267	5.00		280.0	-0.81	16.2	16.0	5.0	383	275		5.15	4.00		566	524		78.00	3400	1201			
268	5.00		285.0		16.2	16.0	5.0	388	276		5.15	4.00		570	522		77.50	3420	1196			
270	5.00		285.0		16.2	16.0	5.0	388	278		5.15	4.00		573	518		77.00	3440	1188			
272	5.00		285.0		16.2	16.0	5.0	388	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	393	283		5.15	4.00		585	509		75.50	3510	1167			
277	5.00		290.0		16.2	16.0	5.0	393	285		5.15	4.00		587	505		75.00	3525	1158			
278	5.00		295.0		16.2	16.0	5.0	400	286		5.15	4.00		590	504		75.00	3540	1154			
280	5.00		295.0		16.2	16.0	5.0	400	288		5.15	4.00		593	499		74.00	3560	1145			
282	5.00		295.0		16.2	16.0	5.0	400	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	408	293		5.15	4.00		605	491		73.00	3630	1124			
287	5.00		300.0		16.2	16.0	5.0	408	295		5.15	4.00		610	487		72.00	3660	1117			
288	5.00		305.0		16.2	16.0	5.0	415	296		5.15	4.00		611	485		72.00	3670	1111			
290	5.00		305.0		16.2	16.0	5.0	415	298		5.15	4.00		615	482		71.50	3695	1104			
292	5.00		305.0		16.2	16.0	5.0	415	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	426	303		5.15	4.00		625	474		70.50	3755	1087			
297	5.00		310.0		16.2	16.0	5.0	426	305		5.15	4.00		630	471		70.50	3780	1079			
298	5.00		315.0		16.2	16.0	5.0	435	306		5.15	4.00		631	469		69.50	3790	1075			
300	5.00		315.0		16.2	16.0	5.0	435	308		5.15	4.00		636	466		69.00	3820	1068			



DIN 472

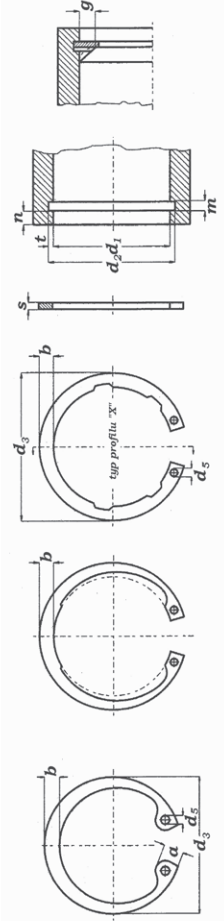
**industrial - inox**

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# PIERŚCIEŃNIE OSADCZE DIN 472

d <sub>1</sub>	DIN 472										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

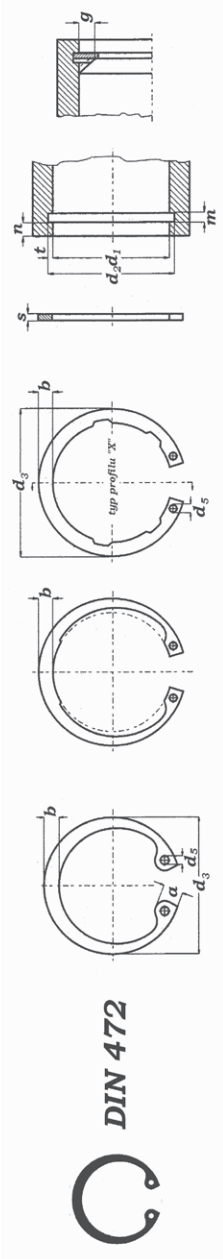


DIN 472



# 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	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	+3.00	605.0			26.0	6.0	2625	594		8.20	7.00		2151	1627		138	12909	3728
590	8.00	-1.50	615.0			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			34.0	9.0	5990	870		9.30	10.00	30.0	4500	2045		173	27000	4680
900	9.00		940.00			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

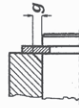
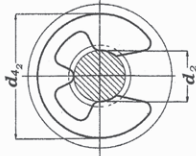
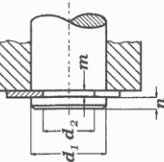
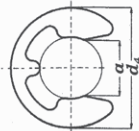


# PLYTKI OSADCZE DIN 6799

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	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	0.6		3.0	0.6	0.04	1.5	0.12	0.4
1.5	2.0	2.5	0.40		3.90	1.28		0.021	1.5	0.44	0.8	4.0	0.8	0.07	2.0	0.22	0.6	0.11	42
1.9	2.5	3.0	0.50	±0.04	4.40	1.61		0.040	1.9	0.54	1.0	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	1.2	5.0	1.2	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	1.2	7.0	1.2	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	1.2	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		0.236	5.0	0.74	1.2	11.0	1.2	0.90	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	1.2	12.0	1.2	1.10	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	1.5	14.0	1.5	1.25	9.0	1.80	1.3	1.00	22
8.0	9.0	12.0	1.00		15.75	6.52		0.660	8.0	1.05	1.8	16.0	1.8	1.42	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	2.0	18.5	2.0	1.60	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	2.0	20.0	2.0	1.70	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	2.5	23.0	2.5	3.10	15.0	4.70	1.9	2.30	13
15.0	16.0	24.0	1.50		28.70	12.61		3.370	15.0	1.55	3.0	29.0	3.0	7.00	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	3.5	37.0	3.5	10.00	25.0	11.00	2.5	3.60	8
24.0	25.0	38.0	2.00		43.50	21.88		8.550	24.0	2.05	4.0	44.0	4.0	13.00	30.0	15.00	3.0	4.00	6

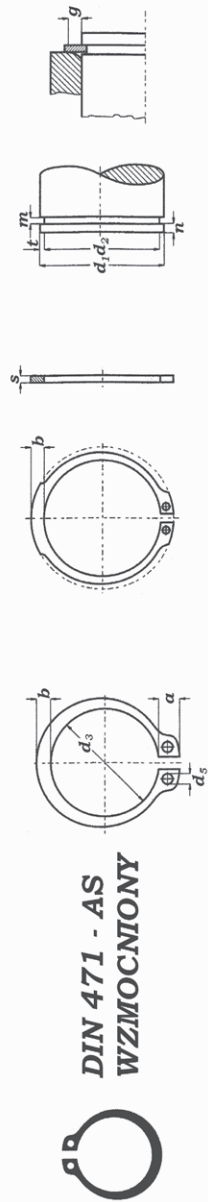


DIN 6799



# 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		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	-0.06	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



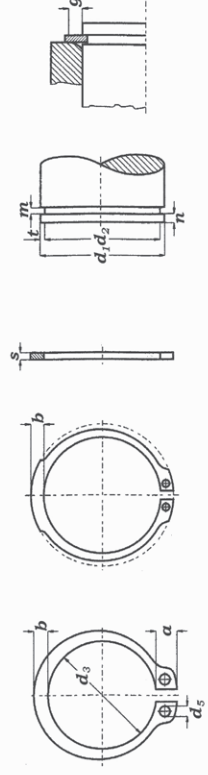
DIN 471 - AS  
WZMOCNIONE

**industrial - inox**

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kom. 601 53 33 66, 504 25 99 11, e-mail: industrial@segey.com.pl www.segey.eu

# 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	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)		g	FRg (kN)	AN (mm <sup>2</sup> )	B
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		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	4.5	38.20	165.0	2.5	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	4.5	44.30	160.0	2.5	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		58.00	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	5.3	71.60	328.0	3.0	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	3.5	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	3.5	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	6.0	107.00	734.0	3.5	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	4.0	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	6.0	134.00	617.0	4.0	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	7.5	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	4.0	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	5.0	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	7.5	232.00	538.0	5.0	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



**DIN 471 - AS  
WZMOCNIONY**

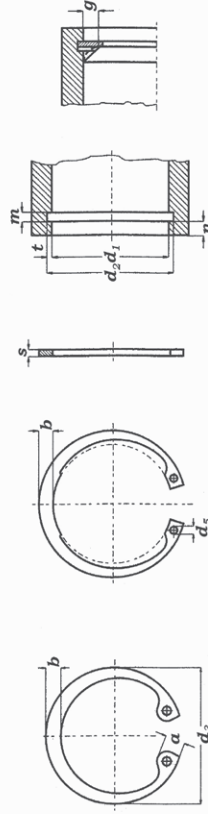
**industrial - inox**

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@segery.com.pl www.segery.eu



# PIERŚCIENIE 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> )	B
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		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		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		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		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		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		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		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		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		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		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		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		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		66.2	+1.10	7.3	5.5	2.5	16.1	65.0		3.15	1.50		49.8	137.0		29.2	299	2.25
64	3.00		68.2	-0.46	7.4	5.6	3.0	16.5	67.0	+0.30	3.15	1.50		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		51.8	174.0	2.5	30.0	313	1.44
68	3.00		72.5		7.8	6.1	3.0	17.2	71.0		3.15	1.50		54.5	174.0		30.6	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		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		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		79.5	358.0	3.0	55.0	477	1.78
90	4.00		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		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		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		117.0	648.0		111.0	704	1.56



DIN 472 - JS  
wzmocniony



industrial - inox

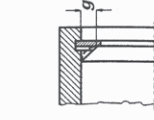
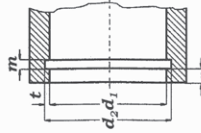
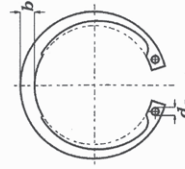
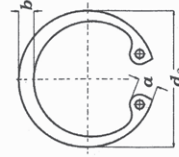
ul. Władysława Łokietka 167B/a, 31-263 Kraków, tel./fax: 012 415 15 01  
kom. 601 53 36, 504 25 99 11, e-mail: industrial@segey.com.pl www.segey.eu

# PIERŚCIENIE DIN 472 JS - WZMOCNIONE


d <sub>1</sub>	C										H								
	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
115	5.00		122.0		10.5	9.3	4.0	94.0	119.0	+0.54	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	124.0		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	129.0		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	134.0		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	139.0		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	144.0		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	149.0	+0.63	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	155.0		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	160.0		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	165.0		5.15	2.50		212.0	501.0		85.0	1275	1.56
165	5.00		174.5	-0.12	14.2	11.8	4.0	156.0	170.0		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	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	180.0		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	185.0		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	190.0		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	195.0	+0.72	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	200.0		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	205.0		5.15	2.50		265.0	508.0		86.0	1565	1.56

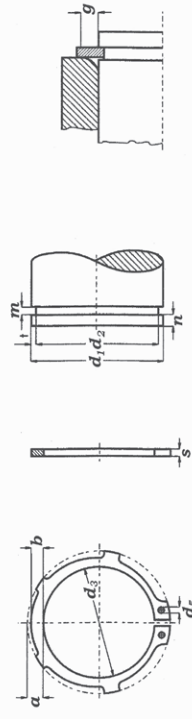


DIN 472 - JS  
wzmocniony



# 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>1000</sub>	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	1.5	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

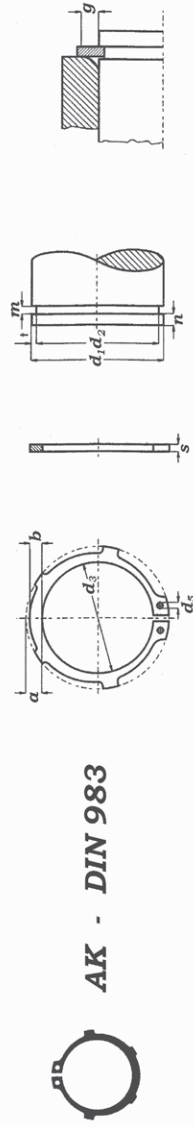
**industrial - inox**

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# PIERŚCIEŃIE AK - DIN 983

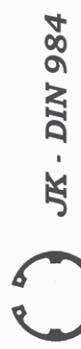
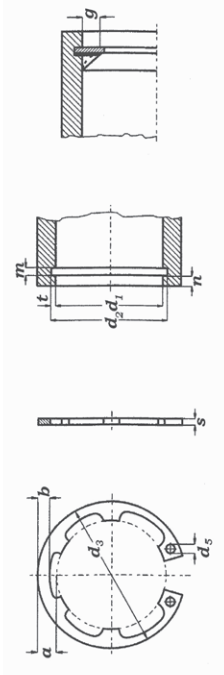
d <sub>1</sub>	D A N E																				
	s	Δ	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	A (kg/1000)	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )	K (kN/mm)		n <sub>def.</sub> x1000 (rpm)
85	3.00	+0.46 -1.10	79.5		10.2	7.8	3.5	39.50	81.5		3.15	1.75	5.3	76.20	215.0	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	-0.54	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		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	-0.63	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		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	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	4
18	1.00		19.5		4.1	2.3	2.0	0.90	19.0		1.10	0.50	1.5	4.80	6.5		2.6	29.0	18.2	4
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	4
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	4
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	4
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	4
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	4
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	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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
36	1.50		38.8		5.6	3.6	2.5	4.15	38.0		1.60	1.00		19.40	26.4		6.4	116.0	50.2	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4
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	4

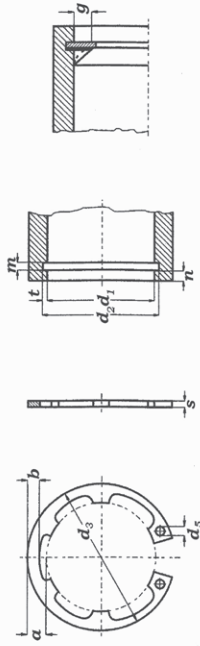


## industrial - inox

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# PIERŚCIENIE JK - DIN 984

d <sub>1</sub>	D A N E										B									
	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> )
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	+1.10	10.2	6.1	3.0	19.30	71.0	+0.30	2.65	1.50		54.50	121.0		21.2	327.0	222.0	4
70	2.50	-0.07	74.5	-0.46	10.2	6.2	3.0	20.20	73.0		2.65	1.50		56.20	119.0		21.0	337.0	218.0	4
72	2.50		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	+0.35	3.15	1.75		79.50	201.0	3.0	31.2	477.0	364.0	4
90	3.00		95.5	+1.30	12.2	7.7	3.5	35.50	93.5		3.15	1.75		84.00	199.0		31.4	504.0	364.0	4
95	3.00	-0.08	100.5	-0.54	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		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	-0.10	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		148.0	+1.50	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		158.0	-0.63	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

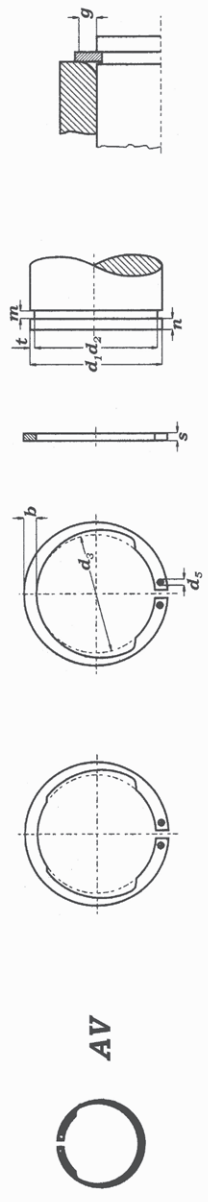


**JK - DIN 984**



**PIERŚCIEŃ AV**

d <sub>1</sub>	DANE										n <sup>det.</sup> x1000 (rpm)								
	s	Δ	d <sub>3</sub>	b	Δ	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)
10	0.60	-0.05	9.2	1.8		1.0	0.25	9.5		0.70	0.25	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	0.30	1.10	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	0.90	5.5	2.4	2.4	5.4	20.8	64
14	1.00	+0.10	12.9	2.1		1.3	0.58	13.4		1.10	0.30	1.10	0.97	6.0	2.4	2.4	5.8	19.2	56
15	1.00	-0.36	13.8	2.2		1.3	0.66	14.3	-0.11	1.10	0.35	1.10	1.22	6.5	2.4	2.4	7.3	19.3	50
16	1.00		14.7	2.3		1.3	0.72	15.2		1.10	0.40	1.10	1.48	7.0	2.5	2.5	8.9	18.7	45
17	1.00		15.7	2.4		1.3	0.81	16.2		1.10	0.40	1.10	1.57	8.1	2.6	2.6	9.4	18.2	41
18	1.20		16.5	2.6		1.5	1.14	17.0		1.30	0.50	1.30	2.07	14.8	3.1	3.1	12.4	32.6	39
20	1.20		18.5	2.8		1.5	1.43	19.0		1.30	0.50	1.30	2.30	14.6	3.2	3.2	13.8	30.1	32
21	1.20	+0.13	19.35	2.8		1.5	1.53	20.0	-0.15	1.30	0.50	1.30	2.42	14.4	3.1	3.1	14.5	29.9	29
22	1.20	-0.42	20.5	3.0	±0.1	1.5	1.63	21.0		1.30	0.50	1.30	2.53	14.2	3.1	3.1	15.2	29.7	27
23	1.20		21.5	3.1		1.5	1.78	22.0		1.30	0.50	1.30	2.66	14.0	3.1	3.1	16.0	29.0	25
24	1.20		22.2	3.2		1.5	1.90	22.9		1.30	0.50	1.30	3.03	14.0	3.1	3.1	18.2	28.8	27
25	1.20		23.2	3.4		1.5	2.10	23.9		1.30	0.55	1.30	3.18	14.1	3.2	3.2	19.1	28.8	25
26	1.20	+0.21	24.2	3.5		1.5	2.18	24.9	-0.21	1.30	0.55	1.30	3.30	14.1	3.2	3.2	19.8	28.4	25
28	1.50		25.9	3.9		2.0	3.18	26.6		1.60	0.70	1.60	4.50	28.0	6.4	6.4	27.0	56.0	22
30	1.50		27.9	3.9		2.0	3.58	28.6		1.60	0.70	1.60	4.86	27.5	6.3	6.3	29.2	53.5	19
32	1.50		29.6	4.0		2.0	3.88	30.3		1.60	0.85	1.60	6.25	27.0	4.7	4.7	37.0	52.0	17
34	1.50		31.5	3.5		2.0	3.60	32.3		1.60	0.85	1.60	6.67	26.6	4.6	4.6	40.0	50.5	15
35	1.50	+0.25	32.2	4.2		2.0	4.53	33.0		1.60	1.00	1.60	8.00	26.6	4.6	4.6	48.0	50.1	16
38	1.75		34.5	4.5		2.0	5.50	35.8		1.85	1.10	1.85	10.60	42.0	7.8	7.8	64.0	77.0	15
40	1.75		36.5	4.7		2.0	6.49	37.5	-0.25	1.85	1.25	1.85	12.60	42.0	7.8	7.8	75.0	77.0	15
42	1.75		38.5	4.7		2.0	7.51	39.5		1.85	1.25	1.85	13.30	42.0	7.8	7.8	80.0	76.0	13
45	1.75	+0.39	41.5	4.7		2.0	7.80	42.5		1.85	1.25	1.85	14.30	41.5	7.8	7.8	86.0	75.0	11
47	1.75	-0.90	43.5	5.0		2.0	8.09	44.5		1.85	1.25	1.85	15.00	41.0	7.8	7.8	90.0	73.5	10
48	1.75		44.5	5.2	±0.2	2.0	8.48	45.5		1.85	1.25	1.85	15.80	41.0	7.8	7.8	95.0	73.5	10
50	2.00		45.8	5.2		2.5	9.84	47.0		2.15	1.50	2.15	19.20	58.0	11.6	11.6	115.0	108.0	10
55	2.00		50.8	5.8		2.5	11.42	52.0		2.15	1.50	2.15	21.00	58.0	9.3	9.3	126.0	104.0	9
58	2.00		53.8	5.8		2.5	13.00	55.0		2.15	1.50	2.15	22.20	56.0	9.2	9.2	133.0	100.0	8
60	2.00		55.8	5.8		2.5	13.80	57.0		2.15	1.50	2.15	23.00	55.5	9.1	9.1	138.0	99.0	7
65	2.50		60.8	6.0		2.5	20.75	62.0	-0.30	2.65	1.50	2.65	24.80	104.0	17.6	17.6	149.0	187.0	6
70	2.50	+0.46	65.5	6.5		2.5	23.70	67.0		2.65	1.50	2.65	27.00	103.0	17.6	17.6	162.0	185.0	6
72	2.50	-1.10	67.5	6.5		2.5	24.70	69.0		2.65	1.50	2.65	27.70	104.0	18.0	18.0	166.0	187.0	6
75	2.50		70.5	7.0		2.5	27.50	72.0		2.65	1.50	2.65	29.20	100.0	17.7	17.7	175.0	182.0	5
80	2.50		74.5	7.0		2.5	28.90	76.5		2.65	1.75	2.65	36.60	96.0	14.6	14.6	220.0	175.0	6
82	2.50		76.5	7.0	±0.3	2.5	29.65	78.5		2.65	1.75	2.65	37.40	100.0	15.4	15.4	225.0	184.0	5
85	3.00		79.5	7.4		3.0	39.50	81.5	-0.35	3.15	1.75	3.15	38.30	167.0	25.6	25.6	300.0	300.0	5
87	3.00		81.5	7.4		3.0	40.00	83.5		3.15	1.75	3.15	39.20	164.0	25.5	25.5	235.0	297.0	5
90	3.00		84.5	7.4		3.0	41.92	86.5		3.15	1.75	3.15	41.70	157.0	24.8	24.8	250.0	288.0	4
95	3.00	+0.54	89.5	8.0		3.0	47.70	91.5		3.15	1.75	3.15	42.70	152.0	21.0	21.0	256.0	285.0	4
100	3.00	-1.300	94.5	8.0		3.0	49.92	96.5		3.15	1.75	3.15	45.80	144.0	20.5	20.5	275.0	276.0	4

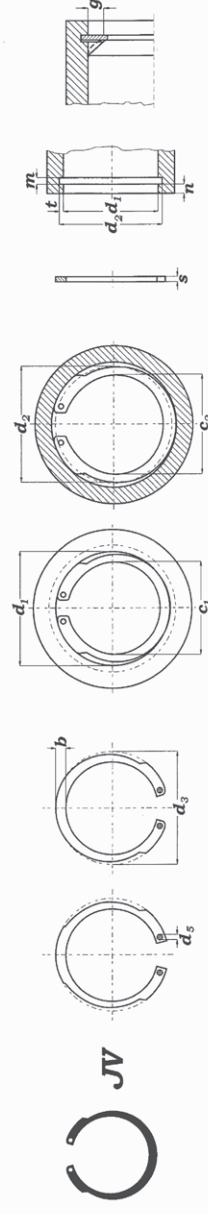


**industrial - inox**

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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>	A <sub>1</sub> (kg/1000)	d <sub>2</sub>	Δ	m min.	f	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	+0.42	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		19.5	-0.13	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		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		26.9	+0.42	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		27.9	-0.21	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		2.15	1.50	4.5	20.80	66.5	2.0	13.3	125.0	121.0
55	2.00		59.2	+1.10	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	-0.07	61.2	-0.46	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		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

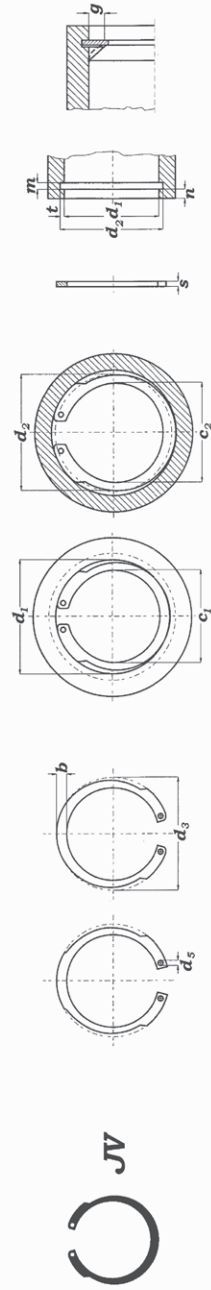


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# PIERŚCIENIE JV

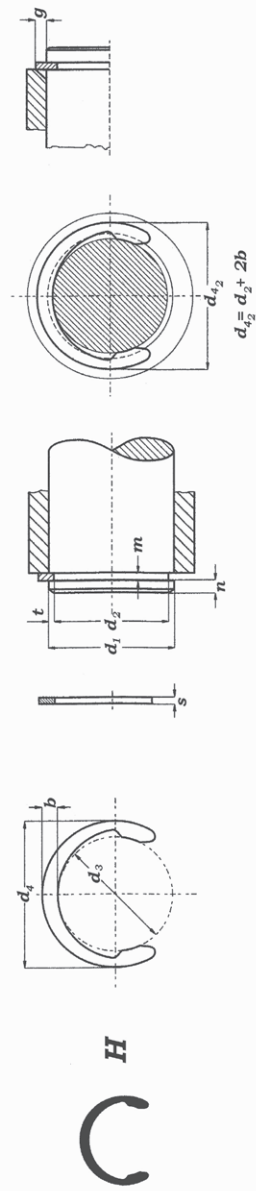
d <sub>1</sub>	DANE																	
	s	Δ	d <sub>3</sub>	Δ	b	Δ	d <sub>5</sub> min.	Δ	d <sub>2</sub>	Δ	m min.	t	n	FN (kN)	FR (kN)	g	FRg (kN)	AN (mm <sup>2</sup> )
68	2.50	+1.10	72.5	5.7	17.75	71.0	+0.30	2.65	1.50	4.5	27.20	123.0	2.5	21.0	163	220.0		
72	2.50	-0.46	76.5	6.0	19.60	75.0	2.65	1.50	20.8	173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





# PIERŚCIEŃ H

d <sub>1</sub>	C					H					DANE							
	s	Δ	d <sub>3</sub>	Δ	b	d <sub>4</sub>	Δ	d <sub>2</sub>	Δ	m min.	t	d <sub>42</sub>	n	FN (kN)	FR (kN)	g	FRg (kN)	n <sub>det</sub> x1000 (rpm)
3	0.40		2.18	±0.06	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	-0.05	5.60	±0.08	1.30	8.20	0.12	5.8		0.74	0.35	8.4	1.0	0.55	1.70	0.70	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	1.00	1.30	67
9	1.00		7.80	±0.09	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	1.00	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	1.00	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	1.20	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	1.20	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	1.20	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	1.20	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	1.20	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	1.20	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	1.00	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	1.20	3.20	15
25	1.20		22.00	±0.21	3.15	28.30	1.74	22.6	-0.21	1.30	1.20	28.9	3.6	7.50	11.50	1.20	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	1.20	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		33.40	±0.25	4.60	42.60	4.62	34.2		1.85	1.90	43.4	5.7	17.50	26.00	1.75	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	1.75	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	1.75	9.00	8
50	2.00		44.00	±0.39	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

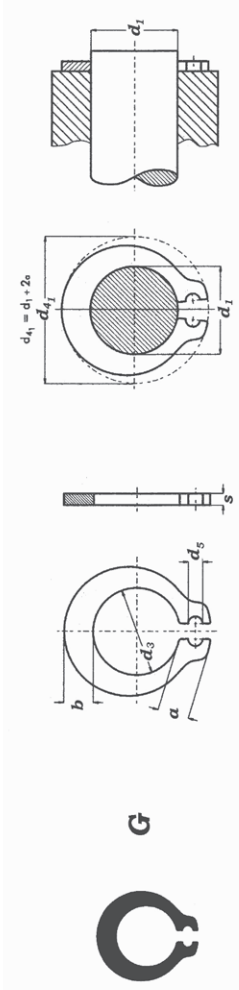


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# PIERŚCIEŃ G

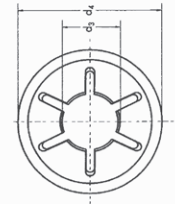
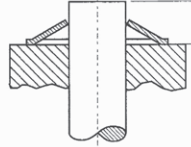
		G										D A N E			
d <sub>1</sub>	s	d <sub>3</sub>	Δ	a max.	b ≈	d <sub>5</sub> min.	Δ (kg/1000)	d <sub>4</sub>	H (N)	n <sub>det.</sub> x1000 (rpm)					
1.5	0.40	1.40	±0.020	1.7	0.7	0.9	0.013	5.1	40	350					
2.0	0.60	1.90	±0.025	1.9	1.0	0.9	0.036	6.0	50	260					
2.2	0.60	2.05	±0.030	1.9	1.1	0.9	0.038	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	±0.090	2.9	2.0	1.3	0.173	10.5	120	120					
5.0	0.80	4.75	±0.090	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		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		6.6	7.8	2.5	7.000	39.8	750	16					
25.0	1.75	24.15	±0.130	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	
	$\Delta$	d <sub>3</sub>	d <sub>4</sub>	s		n min.	h	$\Delta$ (kg/1000)	H (N)
1.5	+0.000 -0.025	1.30	6.00	0.25	3	2.5	1.2	0.10	200
2.0		1.80	7.00	0.30	3	2.5	1.3	0.13	400
2.5		2.30	8.25	0.30	3	2.5	1.5	0.15	700
3.0		2.80	10.00	0.40	3	3.0	2.0	0.20	1200
3.5	+0.000 -0.030	3.25	11.50	0.40	3	3.0	2.0	0.25	1200
4.0		3.75	13.00	0.50	4	3.5	2.4	0.50	1300
5.0		4.75	15.00	0.50	4	3.5	2.7	0.75	1500
6.0		5.75	16.50	0.60	6	4.0	2.6	1.15	1800
7.0	+0.000 -0.036	6.75	18.00	0.60	6	4.0	2.9	1.25	2000
8.0		7.75	19.50	0.70	6	4.0	2.8	1.40	3000
9.0		8.75	21.00	0.70	6	4.0	3.0	1.50	3500
10.0		9.75	22.00	0.80	6	4.0	3.0	1.65	4000

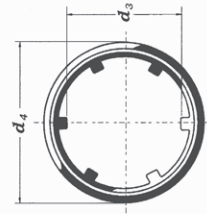
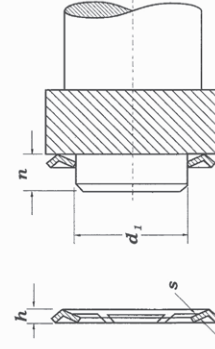


KS





# PIERŚCIENIE ZA

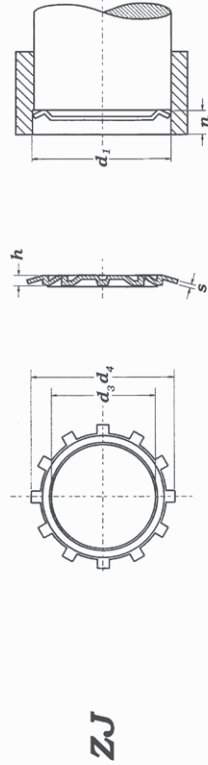
										<b>D A N E</b>	
$d_1$	$\Delta$	$d_3$	$d_4$	$s$		n min.	h	$\Delta$	$\Delta$ (kg/1000)	FRg (N)	
1.5	±0.10	1.40	6.0	0.25	3	1.5	0.6		0.040	100	
2.0		1.85	6.5	0.25	3	1.5	0.6		0.042	150	
3.0		2.80	8.0	0.25	4	1.5	0.8		0.066	200	
3.5		3.30	8.2	0.25	4	2.0	0.9		0.104	210	
4.0		3.80	9.0	0.25	4	2.0	0.8	0.078	220		
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		9.75	16.0	0.30	6	3.0	1.1	±0.15	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		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		



**ZA**

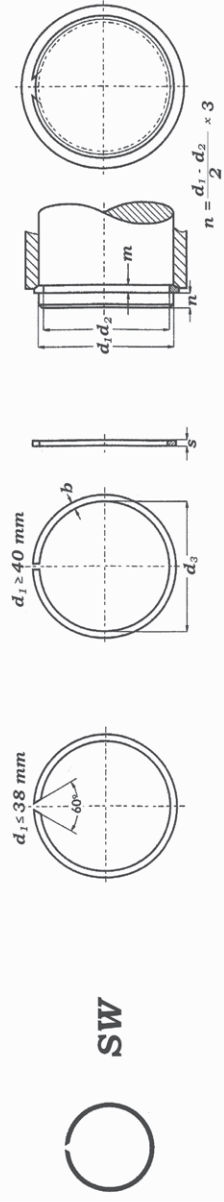
# PIERŚCIENIE ZJ

									<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)	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	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	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	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	52.8	4.11	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	3.40	131.1	30.20	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	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	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	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	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	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	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	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	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	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	3.2	144.00	66.20	1.0



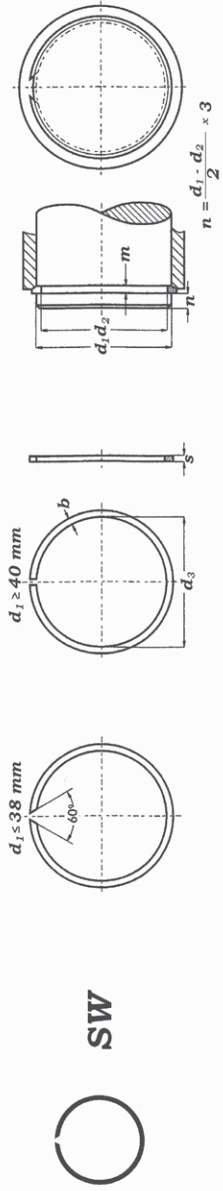
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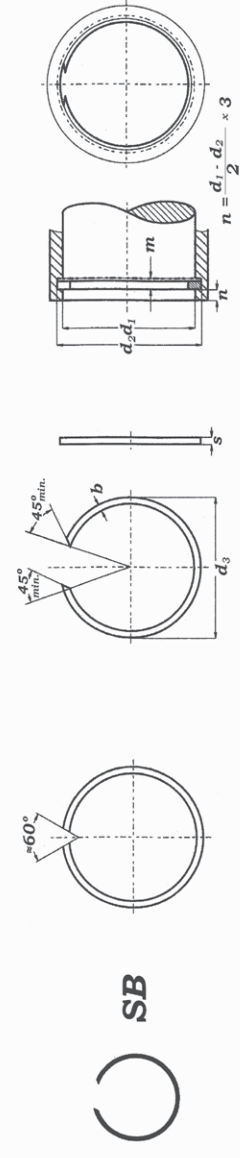
# PIERŚCIENIE SW

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



# PIERŚCIEŃ SB

d <sub>1</sub>	○					DANE		H		○					DANE		H		DANE			
	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	m min.	FN (kN)	FR (kN)	d <sub>2</sub>	Δ	m min.	s (-0.1)	b (-0.1)	d <sub>3</sub> min.	Δ	d <sub>2</sub>	FN (kN)	FR (kN)	d <sub>2</sub>	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	45.2	14.00	19.30	45.2		1.6	14.00	19.30
8	0.8	1.00	8.5	0.10	0.9	0.65	3.25	45	+0.09		1.5	2.3	46.8	3.25	46.2	14.25	19.00	46.2	+0.16	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	47.2	14.65	18.40	47.2		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	48.2	14.90	18.10	48.2		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	49.2	15.30	17.60	49.2		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	51.2	15.80	17.20	51.2		1.6	15.80	17.20
13	1.0	1.30	13.8	0.28	1.1	1.75	8.80	52	+0.11		1.5	2.3	54.3	3.58	53.5	20.65	16.30	53.5		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	54.5	21.05	16.10	54.5		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	56.5	21.80	15.70	56.5		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	58.5	22.60	15.30	58.5		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	59.5	23.00	15.00	59.5		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	61.5	23.80	14.60	61.5		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	63.5	24.60	14.20	63.5		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	64.5	25.00	13.70	64.5		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	66.5	25.70	13.60	66.5		1.6	25.70	13.60
22	1.2	1.75	23.0	0.81	1.3	3.50	13.10	68	+0.13		1.5	2.3	70.3	4.90	69.5	26.90	12.90	69.5		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	71.5	27.70	12.80	71.5		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	73.8	34.20	35.70	73.8		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	74.8	34.70	35.30	74.8		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	75.8	35.30	34.80	75.8		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	77.8	36.20	33.80	77.8		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	79.8	37.10	32.60	79.8		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	80.8	37.60	32.00	80.8		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	81.8	38.00	31.40	81.8		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	82.8	38.60	31.30	82.8		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	83.8	39.00	30.70	83.8		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	84.8	39.50	30.10	84.8		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	86.8	40.40	29.60	86.8		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	87.8	40.90	29.00	87.8		2.2	40.90	29.00
37	1.5	2.30	38.8	2.53	1.6	11.75	22.00	88	+0.16		2.5	3.4	91.0	15.40	90.0	46.50	65.80	90.0		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	92.0	47.60	63.50	92.0		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	94.0	48.60	62.00	94.0		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	95.0	49.20	61.80	95.0		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	97.0	50.20	59.30	97.0		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	99.0	51.30	58.20	99.0		2.7	51.30	58.20

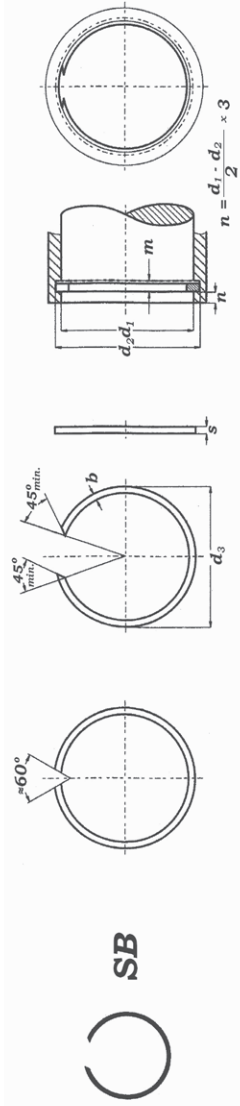


# industrial - inox

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# PIERŚCIEŃNIE 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	2.7	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	2.7	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	2.7	62.0	53.6	3.0	5.0	215.1	68.8	213.0	166.0	56.8	3.0	5.0	213.0	3.2	3.2	166.0	56.8	
103	2.5	3.4	106.3	18.5	2.7	62.6	53.2	3.0	5.0	220.1	69.5	218.0	169.0	55.5	3.0	5.0	218.0	3.2	3.2	169.0	55.5	
105	2.5	3.4	108.3	18.7	2.7	63.8	51.8	3.0	5.0	225.2	72.4	223.0	173.0	54.4	3.0	5.0	223.0	3.2	3.2	173.0	54.4	
107	2.5	3.4	110.3	19.1	2.7	65.0	50.7	3.0	5.0	230.2	72.9	228.0	177.0	53.3	3.0	5.0	228.0	3.2	3.2	177.0	53.3	
108	2.5	3.4	111.3	19.3	2.7	65.6	50.5	3.0	5.0	235.3	75.2	233.0	181.0	52.0	3.0	5.0	233.0	3.2	3.2	181.0	52.0	
110	2.5	3.4	113.4	19.8	2.7	66.8	49.0	3.0	5.0	245.4	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	2.7	68.0	47.0	3.0	5.0	255.5	84.2	253.0	197.0	48.5	3.0	5.0	253.0	3.2	3.2	197.0	48.5	
113	2.5	3.4	116.4	20.5	2.7	68.6	46.5	4.0	7.5	267.6	165.0	265.0	343.0	162.0	4.0	7.5	265.0	4.2	4.2	343.0	162.0	
115	2.5	3.4	118.4	20.6	2.7	69.4	45.5	4.0	7.5	277.7	174.0	275.0	356.0	157.0	4.0	7.5	275.0	4.2	4.2	356.0	157.0	
117	2.5	3.4	120.4	20.8	2.7	71.0	44.6	4.0	7.5	287.8	184.0	285.0	369.0	152.0	4.0	7.5	285.0	4.2	4.2	369.0	152.0	
118	2.5	3.4	121.4	21.1	2.7	71.7	44.2	4.0	7.5	297.9	190.0	295.0	382.0	144.0	4.0	7.5	295.0	4.2	4.2	382.0	144.0	
120	2.5	3.4	123.5	21.4	2.7	72.8	43.3	4.0	7.5	307.9	196.0	305.0	395.0	140.0	4.0	7.5	305.0	4.2	4.2	395.0	140.0	
123	2.5	3.4	126.5	22.0	2.7	74.7	41.2	4.0	7.5	318.0	200.0	315.0	408.0	136.0	4.0	7.5	315.0	4.2	4.2	408.0	136.0	
125	2.5	3.4	128.5	22.5	2.7	75.9	40.2	4.0	7.5	328.1	203.0	325.0	422.0	132.0	4.0	7.5	325.0	4.2	4.2	422.0	132.0	
127	2.5	3.4	130.5	23.0	2.7	77.0	39.8	4.0	7.5	333.1	206.0	330.0	428.0	129.0	4.0	7.5	330.0	4.2	4.2	428.0	129.0	
130	2.5	3.4	133.6	23.4	2.7	78.9	38.2	4.0	7.5	338.2	209.0	335.0	435.0	126.0	4.0	7.5	335.0	4.2	4.2	435.0	126.0	
133	2.5	3.4	136.6	24.4	2.7	80.7	36.8	4.0	7.5	348.3	219.0	345.0	448.0	123.0	4.0	7.5	345.0	4.2	4.2	448.0	123.0	
135	2.5	3.4	138.6	25.0	2.7	81.9	36.6	4.0	7.5	358.4	229.0	355.0	452.0	121.0	4.0	7.5	355.0	4.2	4.2	452.0	121.0	
137	2.5	3.4	140.6	25.3	2.7	83.0	35.6	4.0	7.5	363.4	231.0	360.0	467.0	121.0	4.0	7.5	360.0	4.2	4.2	467.0	121.0	
140	2.5	4.0	144.0	29.3	2.7	96.1	40.2	4.0	7.5	368.5	233.0	365.0	487.0	119.0	4.0	7.5	365.0	4.2	4.2	487.0	119.0	
143	2.5	4.0	147.0	30.1	2.7	98.1	38.6	4.0	7.5	378.5	236.0	375.0	493.0	116.0	4.0	7.5	375.0	4.2	4.2	493.0	116.0	
150	2.5	4.0	154.1	31.9	2.7	102.0	36.2	4.0	7.5	383.5	240.0	380.0	500.0	112.0	4.0	7.5	380.0	4.2	4.2	500.0	112.0	
153	2.5	4.0	157.1	32.6	2.7	104.0	35.6	4.0	7.5	388.6	242.0	385.0	513.0	111.0	4.0	7.5	385.0	4.2	4.2	513.0	111.0	
160	2.5	4.0	164.2	34.4	2.7	108.0	34.6	4.0	7.5	398.7	253.0	395.0	520.0	110.0	4.0	7.5	395.0	4.2	4.2	520.0	110.0	
163	2.5	4.0	167.2	34.6	2.7	111.0	33.5	4.0	7.5	403.7	257.0	400.0	526.0	109.0	4.0	7.5	400.0	4.2	4.2	526.0	109.0	
165	2.5	4.0	169.2	34.9	2.7	113.0	32.8	4.0	7.5	408.9	260.0	405.0	529.0	106.0	4.0	7.5	405.0	4.2	4.2	529.0	106.0	
170	2.5	4.0	174.3	36.2	2.7	116.0	32.0	4.0	7.5	419.0	266.0	415.0	546.0	105.0	4.0	7.5	415.0	4.2	4.2	546.0	105.0	
173	2.5	4.0	177.3	37.1	2.7	118.0	32.0	4.0	7.5	424.0	273.0	420.0	552.0	104.0	4.0	7.5	420.0	4.2	4.2	552.0	104.0	
175	2.5	4.0	179.3	37.3	2.7	119.0	31.4	4.0	7.5	429.1	277.0	425.0	553.0	101.0	4.0	7.5	425.0	4.2	4.2	553.0	101.0	
180	2.5	4.0	184.5	38.3	2.7	123.0	30.8	4.0	7.5	439.2	285.0	435.0	565.0	100.0	4.0	7.5	435.0	4.2	4.2	565.0	100.0	
183	2.5	4.0	187.5	41.0	2.7	125.0	30.0	4.0	7.5	449.3	294.0	445.0	578.0	98.0	4.0	7.5	445.0	4.2	4.2	578.0	98.0	
190	3.0	5.0	194.9	61.3	3.2	150.0	62.8	4.0	7.5	499.3	294.0	495.0	628.0	98.0	4.0	7.5	495.0	4.2	4.2	628.0	98.0	
195	3.0	5.0	199.9	61.6	3.2	154.0	61.5	4.0	7.5	504.3	294.0	500.0	641.0	98.0	4.0	7.5	500.0	4.2	4.2	641.0	98.0	



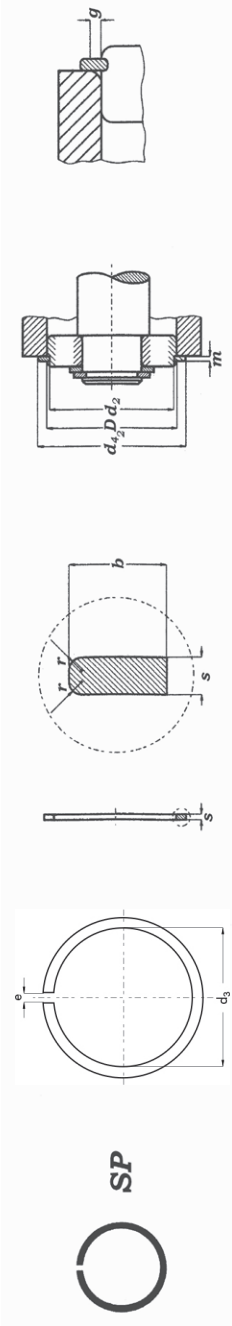
# industrial - inox

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**PIERŚCIEŃ SP - DIN 5417**

D	D A N E										nobl. x1000 (rpm)									
	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)
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		1.35	-0.25	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		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		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		2.70	-0.50	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

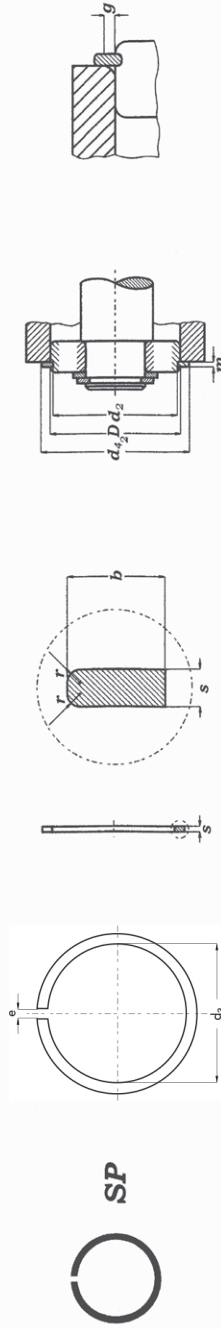


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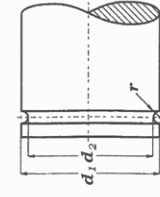
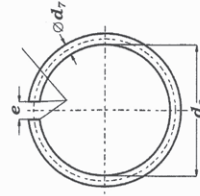
# PIERŚCIEŃ SP - DIN 5417

D	D A N E																
	s	$\Delta$	b	$\Delta$	$d_3$	$\Delta$	$d_2$	$\Delta$	m	$\Delta$	$d_{d_2}$	FN (kN)	FR (kN)	g	FRg (kN)	K (kN/mm)	$n_{obl.} \times 1000$ (rpm)
200	3.10		9.60		191.0		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		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		3.50		227.8	376.0	120.0		11.90	288.0	1.0
225	3.50	-0.15	10.00	+1.8	214.3		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		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		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		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		4.50		272.0	536.0	151.0		15.00	362.0	0.5
270	3.50		10.00	+2.5	257.5		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	-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		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		5.50		314.0	694.0	332.0		33.00	795.0	0.6
310	4.50		12.00		294.0	-0.30	300.00		5.50		324.0	800.0	320.0	7.0	27.30	770.0	0.5
320	4.50		12.00		304.0		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		5.50		354.0	875.0	293.0		25.00	702.0	0.4
360	4.50	-0.2	12.00	+3.0	343.0		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		5.50		384.0	955.0	267.0		22.70	640.0	0.4
380	4.50		12.00		363.0		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		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>	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>	Δ	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	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	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	45	2.5	42.0		4	5.23	42.5	±0.10	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	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		4	5.83	47.5		1.4	4	50	2.5	47.0		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	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	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	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	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	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		5	15.38	76.8		1.8	2	80	3.2	76.0		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	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	90	3.2	86.0		5	17.37	86.8	±0.15	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	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	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	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		5	21.29	106.8		1.8	1	110	3.2	105.8		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	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	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	125	3.2	120.8		5	24.27	121.8		1.8	1

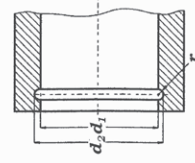
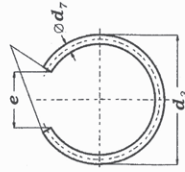


○ RW - DIN 7993



# PIERŚCIENIE RB - DIN 7993

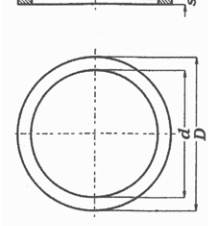
d <sub>1</sub>	○				⌘				○				⌘				
	d <sub>7</sub>	d <sub>3</sub>	Δ	e	⌘ (kg/1000)	d <sub>2</sub>	Δ	r	d <sub>1</sub>	d <sub>7</sub>	d <sub>3</sub>	Δ	e	⌘ (kg/1000)	d <sub>2</sub>	Δ	r
7	0.8	7.9		4	0.071	7.8		0.5	45	2.5	48.8		16	4.89	47.5		1.4
8	0.8	8.9	+0.3	4	0.083	8.8		0.5	48	2.5	51.0		16	5.24	50.5	±0.10	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	0.330	0.660	1.320	2.640	5.280	10.560	15.840	21.120	26.400	31.680	37.920	44.160	50.400	
4	8	0.030	0.045	0.060	0.075	0.089	0.148	0.296	0.592	1.184	2.368	4.736	9.472	18.944	28.416	37.888	47.360	56.832	66.304	75.776	85.248	94.720
5	10	0.046	0.069	0.092	0.115	0.139	0.231	0.462	0.924	1.848	3.696	7.392	14.784	29.568	44.352	59.136	73.920	88.704	103.488	118.272	133.056	147.840
6	12	0.067	0.101	0.134	0.168	0.200	0.333	0.666	1.332	2.664	5.328	10.656	21.312	42.624	63.936	85.248	106.560	127.872	149.184	170.496	191.808	213.120
7	13	0.074	0.111	0.148	0.185	0.221	0.369	0.738	1.476	2.952	5.904	11.808	23.616	47.232	70.848	94.464	118.080	141.696	165.312	188.928	212.544	236.160
8	14	0.082	0.123	0.164	0.205	0.245	0.408	0.815	1.630	3.260	6.520	13.040	26.080	52.160	78.240	104.320	130.400	156.480	182.560	208.640	234.720	260.800
9	15	0.089	0.134	0.178	0.223	0.270	0.445	0.891	1.782	3.564	7.128	14.256	28.512	57.024	85.536	114.048	142.560	171.072	199.584	228.096	256.608	285.120
10	16	0.096	0.144	0.192	0.240	0.290	0.481	0.963	1.926	3.852	7.704	15.408	30.816	61.632	92.448	123.264	154.080	184.896	215.712	246.528	277.344	308.160
11	17	0.103	0.155	0.206	0.258	0.310	0.515	1.030	2.060	4.120	8.240	16.480	32.960	65.920	98.880	131.840	165.800	199.760	233.720	267.680	301.640	335.600
12	18	0.111	0.167	0.222	0.278	0.332	0.555	1.110	2.220	4.440	8.880	17.760	35.520	71.040	106.560	142.080	177.600	213.120	248.640	284.160	319.680	355.200
13	19	0.119	0.179	0.237	0.296	0.357	0.595	1.190	2.380	4.760	9.520	19.040	38.080	76.160	114.240	152.320	190.400	228.480	266.560	304.640	342.720	380.800
14	20	0.126	0.189	0.252	0.315	0.378	0.630	1.260	2.520	5.040	10.080	20.160	40.320	80.640	120.960	161.920	202.880	243.840	284.800	325.760	366.720	407.680
15	21	0.133	0.199	0.266	0.333	0.399	0.666	1.330	2.660	5.320	10.640	21.280	42.560	85.120	127.680	170.240	218.400	267.200	315.840	364.800	414.880	462.880
16	22	0.137	0.205	0.274	0.342	0.410	0.683	1.360	2.720	5.440	10.880	21.760	43.520	87.040	130.400	174.400	224.800	274.880	324.960	374.000	423.040	471.040
17	24	0.140	0.210	0.280	0.350	0.420	0.700	1.400	2.800	5.600	11.200	22.400	44.800	89.600	134.400	179.200	230.400	281.600	330.400	380.800	430.400	480.800
18	25	0.177	0.266	0.354	0.443	0.530	0.885	1.770	3.540	7.080	14.160	28.320	56.640	113.280	170.880	228.480	286.080	343.680	401.280	458.880	516.480	574.080
19	26	0.185	0.278	0.370	0.463	0.551	0.925	1.850	3.700	7.400	14.800	29.600	59.200	118.400	178.400	236.800	295.200	353.600	412.000	470.400	528.800	587.200
20	28	0.194	0.291	0.388	0.485	0.584	0.970	1.940	3.880	7.760	15.520	31.040	62.080	124.160	184.800	243.200	302.400	360.800	420.000	478.400	536.800	595.200
22	30	0.236	0.354	0.472	0.590	0.710	1.180	2.360	4.720	9.440	18.880	37.760	75.520	151.040	226.560	301.120	375.680	450.240	524.800	599.360	673.920	748.480
22	32	0.257	0.386	0.514	0.643	0.770	1.280	2.570	5.140	10.280	20.560	41.120	82.240	164.480	246.720	326.880	407.040	487.200	567.360	647.520	727.680	807.840
22	35	0.333	0.500	0.666	0.833	1.000	1.660	3.330	6.660	13.320	26.640	53.280	106.560	213.120	319.680	426.240	532.800	639.360	745.920	852.480	959.040	1065.600
25	35	0.370	0.555	0.740	0.925	1.110	1.850	3.700	7.400	14.800	29.600	59.200	118.400	236.800	355.200	473.600	592.000	710.400	828.800	947.200	1065.600	1184.000
25	36	0.414	0.621	0.828	1.035	1.240	2.070	4.140	8.280	16.560	33.120	66.240	132.480	264.960	397.440	534.880	672.320	809.760	947.200	1084.640	1222.080	1359.520
26	37	0.427	0.641	0.854	1.068	1.280	2.130	4.270	8.540	17.080	34.160	68.320	136.640	273.280	410.880	547.840	684.800	821.760	958.720	1095.680	1232.640	1370.080
28	40	0.503	0.755	1.006	1.258	1.510	2.510	5.030	10.060	20.120	40.240	80.480	160.960	321.920	482.880	643.840	804.800	965.760	1126.720	1287.680	1448.640	1609.600
30	42	0.535	0.803	1.070	1.338	1.600	2.680	5.350	10.700	21.400	42.800	85.600	171.200	342.400	513.600	684.800	856.000	1027.200	1198.400	1369.600	1540.800	1712.000
32	45	0.619	0.929	1.238	1.548	1.860	3.100	6.190	12.380	24.760	49.520	99.040	198.080	396.160	594.240	792.320	990.400	1188.480	1386.560	1584.640	1782.720	1980.800
35	45	0.495	0.743	0.990	1.238	1.490	2.480	4.950	9.900	19.800	39.600	79.200	158.400	237.600	316.800	396.000	475.200	554.400	633.600	712.800	792.000	871.200
36	45	0.451	0.677	0.902	1.128	1.350	2.250	4.500	9.000	18.000	36.000	72.000	144.000	216.000	288.000	360.000	432.000	504.000	576.000	648.000	720.000	792.000
37	47	0.516	0.774	1.032	1.290	1.550	2.580	5.160	10.320	20.640	41.280	82.560	165.120	247.680	371.520	495.360	619.200	743.040	866.880	990.720	1114.560	1238.400
40	50	0.554	0.831	1.108	1.385	1.690	2.770	5.540	11.080	22.160	44.320	88.640	177.280	354.560	531.840	709.120	886.400	1063.680	1240.960	1418.240	1595.520	1772.800
42	52	0.580	0.870	1.060	1.350	1.730	2.900	5.780	11.560	23.120	46.240	92.480	184.960	369.920	554.880	740.800	926.720	1112.640	1298.560	1484.480	1670.400	1856.320
45	55	0.620	0.930	1.220	1.530	1.850	3.100	6.200	12.400	24.800	49.600	99.200	198.400	396.800	595.200	790.400	985.600	1180.800	1376.000	1571.200	1766.400	1961.600
45	56	0.680	1.020	1.360	1.700	2.040	3.400	6.800	13.600	27.200	54.400	108.800	217.600	326.400	435.200	544.000	652.800	761.600	870.400	979.200	1088.000	1196.800
48	60	0.790	1.180	1.580	1.970	2.370	3.950	7.900	15.800	31.600	63.200	126.400	252.800	379.200	505.600	632.000	758.400	884.800	1011.200	1137.600	1264.000	1390.400



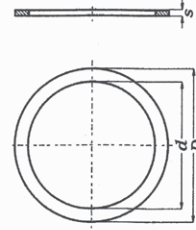
PS - DIN 988

# PODKŁADKI DYSTANSOWE PS - DIN 988

∅		$> \blacksquare < / \Delta$											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
50	62	0.83		1.24	1.66	2.07	2.49	4.15	8.30	9.96	12.40	16.60									
50	63	0.91		1.36	1.82	2.27	2.73	4.55	9.10	10.90	13.60	18.20									
52	65	0.94		1.41	1.88	2.35	2.82	4.70	9.40	11.30	14.10	18.80									
55	68	0.98		1.47	1.96	2.45	2.93	4.90	9.80	11.70	14.70	19.60									
56	70	1.09		1.64	2.18	2.73	3.27	5.45	10.90	13.10	16.40	21.80									
56	72	1.27		1.90	2.54	3.17	3.80	6.35	12.70	15.20	19.00	25.40									
60	75	1.25		1.87	2.50	3.12	3.75	6.25	12.50	15.00	18.70	25.00									
63	80	1.50		2.25	3.00	3.75	4.50	7.50	15.00	18.00	22.50	30.00									
65	85	1.85		2.77	3.70	4.62	5.55	9.25	18.50	22.20	27.70	37.00									
70	90	1.97		2.95	3.94	4.92	5.90	9.85	19.70	23.60	29.50	39.40									
75	95	2.09		3.13	4.18	5.22	6.28	10.50	20.90	25.10	31.40	41.80									
80	100	2.22		3.33	4.44	5.55	6.65	11.10	22.20	26.60	33.30	44.40									
85	105	2.34		3.51	4.68	5.85	7.05	11.70	23.40	28.10	35.10	46.80									
90	110	2.47		3.70	4.94	6.17	7.40	12.40	24.70	29.60	37.10	49.40									
95	115	2.59		3.88	5.18	6.47	7.77	13.00	25.90	31.10	38.90	51.80									
100	120	2.72		4.08	5.44	6.80	8.15	13.60	27.20	32.60	40.80	54.40									
100	125	3.47		5.20	6.94	8.67	10.40	17.30	34.70												
105	130	3.62		5.43	7.22	9.05	10.80	18.10	36.20												
110	140	4.62		6.93	9.22	11.50	13.90	23.10	46.20												
120	150	5.00		7.50	10.00	12.50	15.00	25.00	50.00												
130	160	5.36		8.04	10.70	13.40	16.10	26.80	53.60												
140	170	5.73		8.60	11.50	14.30	17.20	28.50	57.30												
150	180	6.10		9.15	12.20	15.20	18.30	30.50	61.00												
160	190	6.47		9.70	12.90	16.20	19.40	32.30	64.70												
170	200	6.85		10.30	13.70	17.10	20.60	34.30	68.50												



PS - DIN 988



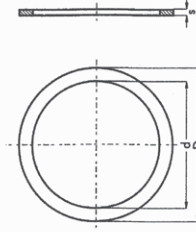


# PODKŁADKI DYSTANSOWE SS - DIN 988

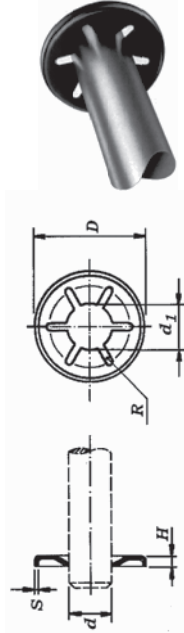
Ø		>■<			Ø		>■<			Ø		>■<	
d	D	s	Δ	(kg/1000)	d	D	s	Δ	(kg/1000)	d	D	s	Δ
3	6	1.0		0.165	22	32	2.0		6.66	56	72	3.0	
4	8	1.0		0.296	25	35	2.0		7.40	60	75	3.0	
5	10	1.0		0.462	25	36	2.0		8.28	63	80	3.0	
6	12	1.2		0.800	26	37	2.0		8.54	65	85	3.5	
7	13	1.2		0.885	28	40	2.0		10.06	70	90	3.5	
8	14	1.2		0.980	30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



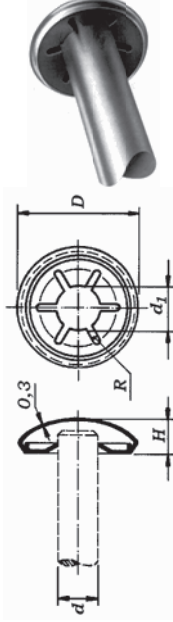
SS - DIN 988



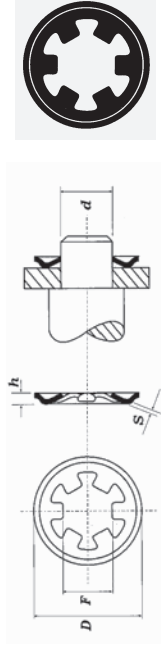
## Zapinka X



## Zapinka X z puklem



## Zapinka Y



d	D +0,20 -0,20	d1	H +0,15 -0,15	s	D +0,50 -0,50	d1	H +0,20 -0,20	d	D	F	h	s	ilość ząbków	waga kg/1000
2	9,5	1,50±1,65	1,2	0,2	2	10	3,8	2	7,00	1,80	0,70	0,25	3	0,054
2	11,3	1,50±1,65	1,5	0,2	2	12	4,5	2,5	8,50	2,25	0,70	0,25	3	0,082
2,5	6,5	2,00±2,15	1,2	0,2	2,5	7,5	3	3	9,50	2,70	0,70	0,25	4	0,106
3	9,5	2,50±2,65	1,2	0,2	3	10	3,8	4	10,00	3,65	0,75	0,30	5	0,131
3	11,3	2,50±2,65	1,5	0,2	3	12	4,5	5	11,00	4,65	0,75	0,30	6	0,149
4	11,3	3,50±3,65	1,2	0,2	4	12	4,5	6	12,50	5,65	0,90	0,40	6	0,241
4	15	3,50±3,65	1,5	0,3	4	16	6	7	14,00	6,60	0,90	0,40	6	0,283
5	11,3	4,50±4,65	1,2	0,2	5	12	4,5	8	15,50	7,60	0,90	0,40	8	0,352
5	15	4,50±4,65	1,5	0,3	5	16	6	9	17,00	8,55	1,00	0,40	8	0,421
6	15	5,50±5,65	1,5	0,3	6	16	6	10	18,50	9,55	1,00	0,40	8	0,466
7	15	6,50±6,65	1,5	0,3	7	16	6							
8	15	7,50±7,65	1,5	0,3	8	16	6							
8	18	7,50±7,65	1,6	0,3	8	19	6,5							
8	21	7,50±7,65	2,1	0,3	8	22	7							
9	18	8,50±8,65	1,6	0,3	9	19	6,5							
9	21	8,50±8,65	2,1	0,3	9	22	7							
9,5	18	9,00±9,15	1,6	0,3	9,5	19	6,5							
10	18	9,50±9,65	1,6	0,3	10	19	6,5							
10	21	9,50±9,65	2,1	0,3	10	22	7							
11	21	10,50±10,65	2,1	0,3	11	22	7							
12	21	11,50±11,65	2,1	0,3	12	22	7							
14	21	13,50±13,65	2,1	0,3	14	22	7							
15	28	14,40±14,00		0,4										
18	36,5	17,30±17,45	3,2	0,4										
20	36,5	19,30±19,45	3,2	0,4										
25	41,2	24,25±24,45												
30	44,0	29,20±29,45												

Zapinki X oferujemy również w wykonaniu ze stali nierdzewnej !!!

# Profesjonalne narzędzia do montażu pierścieni segera

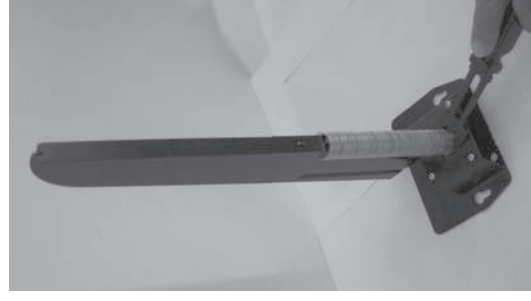
szczypscpe do pierścieni segera wewn. DIN 472



podajnik do płytek osadczych DIN 6799



dozownik do montażu płytek osadczych DIN 6799 z opakowań zbiorczych na stalowym pręcie



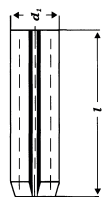
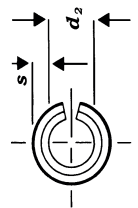
szczypscpe do pierścieni segera wewn. DIN 472 90°



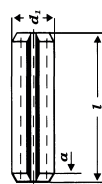








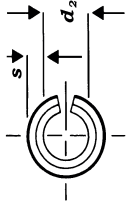
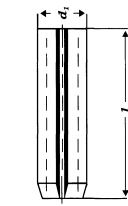
> 8mm



≤ 8mm

Wymiar nominalny		2	2.5	3	3.5	4	4.5	5	6	8	10	12	13
a	max.	0.4	0.45	0.45	0.5	0.7	0.7	0.7	0.9	1.8	2.4	2.4	2.4
	min.	0.3	0.25	0.25	0.3	0.5	0.5	0.5	0.7	1.5	2.0	2.0	2.0
Stan wolny		2.4	2.9	3.5	4.0	4.6	5.1	5.6	6.7	8.8	10.8	12.8	13.8
d <sub>1</sub>	max.	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.4	8.5	10.5	12.5	13.5
d <sub>2</sub>	min.	1.9	2.3	2.7	3.1	3.4	3.9	4.4	4.9	7.0	8.5	10.5	11.0
s	~	0.2	0.25	0.3	0.35	0.5	0.5	0.5	0.75	0.75	1.0	1.0	1.2
siła kN		1.5	2.4	3.5	4.6	8.0	8.8	10.4	18	24	40	48	66
4													
5													
6	+/- 0,25												
8													
10													
12													
14													
16													
18													
20													
22													
24													
26	+/- 0,50												
28													
30													
32													
36													
40													
45													
50													
55													
60													
65													
70													
75													
80													
85													
90	+/- 0,75												
95													
100													
120													
140													
160													
180													
200													
tolerancja													
dlugość													
<b>kołki sprężyste lekkie ISO 13337</b>													
<b>(dawniej DIN 7346)</b>													
dostępność													



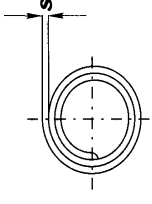
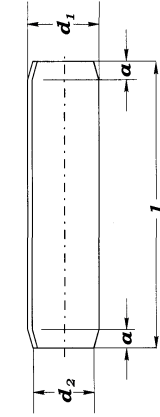


Wymiar nominalny	14	16	18	20	21	25	28	30	35	40	45	50
	max.	2.4	2.4	2.4	2.4	2.4	3.4	3.4	3.4	3.6	4.6	4.6
min.	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
Stan wolny max.	14.8	16.8	18.9	20.9	21.9	25.9	28.9	30.9	35.9	40.9	45.9	50.9
d <sub>1</sub> min.	14.5	16.5	18.5	20.5	21.5	25.5	28.5	30.5	35.5	40.5	45.5	50.5
d <sub>2</sub> ~	11.5	13.5	15.0	16.5	17.5	21.5	23.5	25.5	28.5	32.5	37.5	40.5
s	1.5	1.5	1.7	2.0	2.0	2.0	2.5	2.5	3.5	4.0	4.0	5.0
siła kN	84	98	126	158	168	202	280	302	490	634	720	1000
4												
5												
+/- 0,25												
6												
8												
10												
12												
14												
16												
18												
20												
22												
24												
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30												
32												
36												
40												
45												
50												
55												
60												
65												
70												
75												
80												
85												
+/- 0,75												
90												
95												
100												
120												
140												
160												
180												
200												
tolerancja												
długość												

kołki sprężyste lekkie ISO 13337  
(dawniej DIN 7346)

dostępność





Wymiar nominalny		2	2.5	3	3.5	4	5	6	8	10	12	14	16	20
stan wolny	d <sub>1</sub> min.	2.11	2.62	3.12	3.64	4.15	5.15	6.18	8.25	10.30	12.35	14.40	16.40	20.40
	d <sub>1</sub> max.	2.21	2.73	3.25	3.79	4.30	5.35	6.40	8.55	10.65	12.75	14.85	16.90	21.00
	d <sub>2</sub> max.	1.90	2.40	2.90	3.40	3.90	4.85	5.85	7.80	9.75	11.70	13.60	15.60	19.60
a ~		0.70	0.70	0.90	1.00	1.10	1.30	1.50	2.00	2.50	3.00	3.50	4.00	4.50
s		0.22	0.28	0.33	0.39	0.45	0.56	0.67	0.90	1.10	1.30	1.60	1.80	2.20
siła kN <sup>1)</sup>		3.50	5.50	7.60	10	13.5	20	30	53	84	120	165	210	340,0
4														
5														
+/- 0,25	6													
	8													
	10													
12														
14														
16														
18														
20														
22														
24														
+/- 0,50	26													
	28													
	30													
32														
36														
40														
45														
50														
55														
60														
65														
70														
75														
80														
85														
+/- 0,75	90													
	95													
	100													
120														
140														
160														
180														
200														
tol.														
kołki sprężyste zwijane ISO 8748 (dawniej DIN 7343)														
dostępność														
długość														

# Wkręty dociskowe na klucz imbusowy

DIN 913



DIN 914



DIN 915



DIN 916



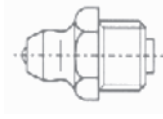
średnica	dlugość	średnica	dlugość
M3	od 3 – 25	M12	od 10 – 80
M4	od 4 – 40	M14	od 16 – 80
M5	od 5 – 50	M16	od 16 – 80
M6	od 5 – 70	M20	od 20 – 80
M8	od 6 – 70	M24	od 25 – 80
M10	od 10 – 80		

Wkręty oferujemy z materiałów :

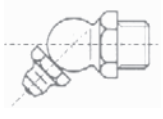
- stal 45H - czarne
- stal 45H - biały ocynk
- stal 45H - żółty ocynk
- stal nierdzewna A2, A4

## Smarowniczk

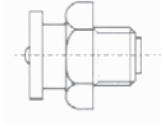
PN 86002



PN 86003 ( 45\* lub 90 \*)



PN 86043



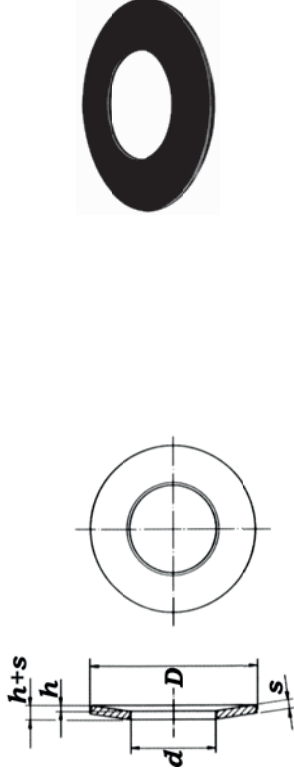
## Smarownice kapturowe staufera

PN 86008

odlewane żeliwne - toczzone stalowe - toczzone mosiężne - toczzone aluminiowe



# Sprężyna talerzowa DIN 2093



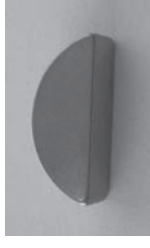
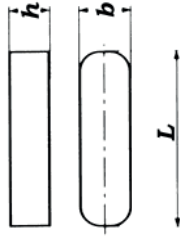
D	TYP A										TYP B									
	s	h	h+s	P	f	P	f	P	f	P	h+s	P	f	P	f	P	f	P	f	
				kg	mm	kg	mm	kg	mm	kg	mm	kg	mm	kg	mm	kg	mm	kg	mm	
8	4,2	0,4	0,20	8	0,050	15	0,100	21	0,150	0,3	0,25	5	0,062	9	0,125	12	0,187			
10	5,2	0,5	0,25	12	0,062	23	0,125	34	0,187	0,4	0,30	9	0,075	16	0,150	21	0,225			
12,5	6,2	0,7	0,30	1,00	0,075	24	0,150	67	0,225	0,5	0,35	12	0,087	22	0,175	30	0,262			
14	7,2	0,8	0,30	1,10	0,075	56	0,150	82	0,225	0,5	0,40	12	0,100	22	0,200	29	0,300			
16	8,2	0,9	0,35	1,25	0,087	72	0,175	105	0,262	0,6	0,45	17	0,112	31	0,225	42	0,337			
18	9,2	1,0	0,40	1,40	0,100	90	0,200	130	0,300	0,7	0,50	24	0,125	43	0,250	58	0,375			
20	10,2	1,1	0,45	1,55	0,112	108	0,225	156	0,337	0,8	0,55	31	0,137	56	0,275	77	0,412			
22,5	11,2	1,25	0,50	1,75	0,125	137	0,250	198	0,375	0,8	0,65	31	0,162	55	0,325	73	0,487			
25	12,2	1,5	0,55	2,05	0,137	207	0,275	300	0,412	0,9	0,70	37	0,175	66	0,350	88	0,525			
28	14,2	1,5	0,65	2,15	0,162	204	0,325	293	0,487	1,0	0,80	49	0,200	85	0,400	115	0,600			
31,5	16,3	1,75	0,70	2,45	0,175	276	0,350	400	0,525	1,25	0,90	2,15	82	0,225	146	0,450	197	0,675		
35,5	18,3	2,0	0,80	2,80	0,200	370	0,400	536	0,600	1,25	1,00	2,25	75	0,250	132	0,500	175	0,750		
40	20,4	2,25	0,90	3,15	0,225	461	0,450	668	0,675	1,5	1,15	2,65	114	0,287	202	0,575	270	0,862		
45	22,4	2,5	1,0	3,50	0,250	548	0,500	795	0,750	1,75	1,30	3,05	157	0,325	278	0,650	375	0,975		
50	25,4	3,0	1,1	4,10	0,275	847	0,550	1234	0,850	2,0	1,40	3,40	201	0,350	360	0,700	490	1,050		
56	28,5	3,0	1,3	4,30	0,325	815	0,650	1175	0,975	2,0	1,60	3,60	197	0,400	344	0,800	460	1,200		
63	31	3,5	1,4	4,90	0,350	1067	0,700	1550	1,050	2,5	1,75	4,25	302	0,437	542	0,875	740	1,312		
71	36	4,0	1,6	5,60	0,400	1460	0,800	2120	1,200	2,5	2,00	4,50	298	0,500	521	1,000	693	1,500		
80	41	5,0	1,7	6,70	0,425	2370	0,850	3470	1,275	3,0	2,30	5,30	460	0,575	810	1,150	1085	1,725		
90	46	5,0	2,0	7,00	0,500	2235	1,000	3240	1,500	3,5	2,50	6,00	605	0,625	1080	1,250	1470	1,875		
100	51	6,0	2,2	8,20	0,550	3400	1,100	4950	1,650	3,5	2,80	6,30	580	0,700	1010	1,400	1348	2,100		
112	57	6,0	2,5	8,50	0,625	3120	1,250	4500	1,875	4,0	3,20	7,20	788	0,800	1370	1,600	1830	2,400		
125	64	8,0	2,6	10,6	0,650	6050	1,300	8880	1,950	5,0	3,50	8,50	1264	0,875	2265	1,750	3100	2,625		
140	72	8,0	3,2	11,2	0,800	6070	1,600	8800	2,400	5,0	4,00	9,00	1240	1,000	2160	2,000	2880	3,000		
160	82	10	3,5	13,5	0,875	9760	1,750	14300	2,625	6,0	4,50	10,5	1770	1,125	3140	2,250	4240	3,375		
180	92	10	4,0	14,0	1,000	8940	2,000	12960	3,000	6,0	5,10	11,1	1715	1,275	2960	2,550	3880	3,825		
200	102	12	4,2	16,2	1,050	12920	2,100	18900	3,150	8,0	5,60	13,6	3220	1,400	5780	2,800	7900	4,200		
225	112	12	5,0	17,0	1,250	12200	2,500	17640	3,750	8,0	6,50	14,5	3160	1,625	5500	3,250	7300	5,875		
250	127	14	5,6	19,6	1,400	17700	2,800	25660	4,200	10	7,00	17,0	5010	1,750	9000	3,500	12270	5,250		

# Wpusty pryzmatyczne

## DIN 6885

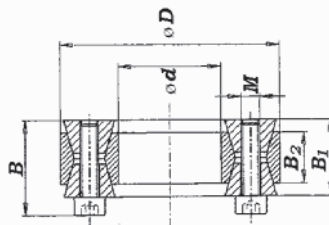
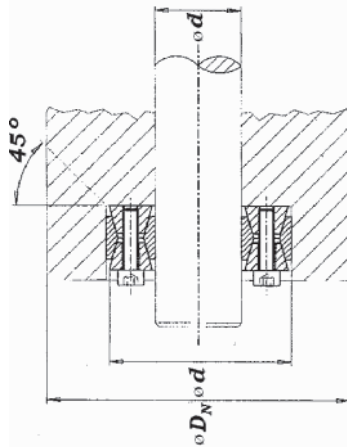
# Wpusty czólenkowe

## DIN 6888



$L/b \# h$	4x4x	5x5x	6x6x	8x7x	10x8x	12x8x	14x9x	16x10x	18x11	20x12	wymiar
6											2,5x3,7
8											3x3,7
10											3x6,5
12											4x5
14											4x6,5
16											4x7,5
18											5x6,5
20											5x7,5
22											5x9
25											6x9
28											6x10
32											6x11
36											8x11
40											8x13
45											10x13
50											10x16
56											
63											
70											
80											
90											
100											
110											
125											
140											
160											
180											
200											

# Pierścienie rozporowe - Ringfeldery



Abmessungen [mm]			Spanschrauben DIN 912-12.9 $\mu_{ges.} = 0.14$			Übertragbares Drehmoment oder Akkordart			Flächenpressung zwischen Spanschrauben			Gewicht
d x D	B	B <sub>1</sub>	B <sub>2</sub>	M	z	T <sub>0</sub> <sup>II</sup> Nm	T <sub>0</sub> Nm	F <sub>sk</sub> kN	Wellen p <sub>w</sub> N/mm <sup>2</sup>	Nabe p <sub>N</sub> N/mm <sup>2</sup>	DN	kg
20 x 47	27.5	20	17	M 6	8	15	280	29	225	95	95	0.24
22 x 47	27.5	20	17	M 6	8	15	310	29	210	95	100	0.23
24 x 50	27.5	20	17	M 6	8	15	370	32	210	100	100	0.26
25 x 50	27.5	20	17	M 6	8	15	400	32	200	100	100	0.25
28 x 55	27.5	20	17	M 6	10	15	500	36	200	100	100	0.30
30 x 55	27.5	20	17	M 6	10	15	530	36	185	100	100	0.29
32 x 60	27.5	20	17	M 6	12	15	680	42	205	110	110	0.34
35 x 60	27.5	20	17	M 6	12	15	750	43	200	110	110	0.32
38 x 65	27.5	20	17	M 6	14	15	930	49	200	115	115	0.36
40 x 65	27.5	20	17	M 6	14	15	980	49	190	115	115	0.34
42 x 75	33.5	24	20	M 8	12	37	1580	75	235	130	130	0.60
45 x 75	33.5	24	20	M 8	12	37	1700	76	220	130	130	0.57
48 x 80	33.5	24	20	M 8	12	37	1900	74	210	120	120	0.80
50 x 80	33.5	24	20	M 8	12	37	1940	74	210	120	120	0.80
55 x 85	33.5	24	20	M 8	14	37	2390	88	210	135	135	0.83
60 x 90	33.5	24	20	M 8	14	37	2610	88	190	125	125	0.69
65 x 95	33.5	24	20	M 8	16	37	3210	98	200	135	135	0.73
70 x 110	33.5	28	24	M 10	14	70	4600	132	210	130	130	1.26
75 x 115	39.5	28	24	M 10	14	70	4900	131	195	125	125	1.33
80 x 120	39.5	28	24	M 10	14	70	5200	131	180	120	120	1.40
85 x 125	39.5	28	24	M 10	16	70	6300	148	195	130	130	1.49
90 x 130	39.5	28	24	M 10	16	70	6600	147	180	125	125	1.53
95 x 135	39.5	28	24	M 10	18	70	7900	167	195	135	135	1.62
100 x 145	47	33	26	M 12	14	127	9750	195	195	135	135	2.01
110 x 155	47	33	26	M 12	14	127	10650	194	180	125	125	2.15
120 x 165	47	33	26	M 12	16	127	13300	221	185	135	135	2.35
130 x 180	52	38	34	M 12	20	127	17850	276	165	115	115	3.51
140 x 190	52	38	34	M 12	22	127	21200	302	165	125	125	3.85
150 x 200	52	38	34	M 12	24	127	24500	329	170	125	125	4.07
160 x 210	52	38	34	M 12	26	127	28400	355	170	130	130	4.30
170 x 225	60	44	38	M 14	22	195	33600	396	165	120	120	5.78
180 x 235	60	44	38	M 14	24	195	38700	431	170	130	130	6.05
190 x 250	68	52	46	M 14	28	195	44100	502	155	120	120	8.25
200 x 260	68	52	46	M 14	30	195	53500	538	155	120	120	8.65
220 x 285	74	56	50	M 16	26	300	68500	530	155	120	11.22	
240 x 305	74	56	50	M 16	30	300	86000	717	165	130	12.20	
260 x 325	74	56	50	M 16	34	300	105000	810	165	135	13.20	
280 x 355	86.5	66	60	M 18	32	410	128500	920	150	120	19.20	
300 x 375	86.5	66	60	M 18	36	410	153600	1025	155	125	20.50	
320 x 405	100.5	78	72	M 20	36	580	210500	1325	155	125	29.60	
340 x 425	100.5	78	72	M 20	36	580	230000	1385	150	120	31.10	
360 x 455	116	89	84	M 22	36	780	291700	1635	150	120	42.50	
380 x 475	116	90	84	M 22	36	790	309100	1625	140	120	44.00	
400 x 495	116	90	84	M 22	40	790	321900	1617	135	110	46.00	
420 x 515	116	90	84	M 22	40	790	374000	1780	135	110	50.00	
440 x 545	130	102	96	M 24	40	1000	455000	2060	130	105	64.60	
460 x 565	130	102	96	M 24	40	1000	470000	2040	120	100	67.40	
480 x 585	130	102	96	M 24	42	1000	515000	2160	125	100	71.00	
500 x 605	130	102	96	M 24	44	1000	560000	2240	125	100	72.60	
520 x 630	130	102	96	M 24	45	1000	600000	2320	125	100	80.00	
540 x 650	130	102	96	M 24	45	1000	630000	2340	120	100	82.00	
560 x 670	130	102	96	M 24	48	1000	680000	2440	120	100	85.0	
580 x 690	130	102	96	M 24	50	1000	735000	2540	120	100	88.00	
600 x 710	130	102	96	M 24	50	1000	775000	2580	120	100	91.00	
620 x 730	130	102	96	M 24	52	1000	825000	2660	120	100	93.00	
640 x 750	130	102	96	M 24	54	1000	865000	2700	115	100	96.00	
660 x 770	130	102	96	M 24	56	1000	925000	2800	120	100	98.00	
680 x 790	130	102	96	M 24	56	1000	965000	2840	115	100	102.00	
700 x 810	130	102	96	M 24	60	1000	1030000	2960	115	100	104.00	
720 x 830	130	102	96	M 24	60	1000	1070000	2980	115	100	107.00	
740 x 850	130	102	96	M 24	62	1000	1140000	3080	115	100	110.00	
760 x 870	130	102	96	M 24	64	1000	1210000	3180	115	100	113.00	
780 x 890	130	102	96	M 24	65	1000	1250000	3220	115	100	116.00	
800 x 910	130	102	96	M 24	66	1000	1300000	3260	115	100	118.00	
820 x 930	130	102	96	M 24	68	1000	1370000	3340	115	100	121.00	
840 x 950	130	102	96	M 24	70	1000	1450000	3460	115	100	124.00	
860 x 970	130	102	96	M 24	72	1000	1520000	3540	115	100	127.00	
880 x 990	130	102	96	M 24	74	1000	1590000	3620	115	100	129.00	
900 x 1010	130	102	96	M 24	75	1000	1650000	3680	115	100	132.00	



# industrial - inox

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