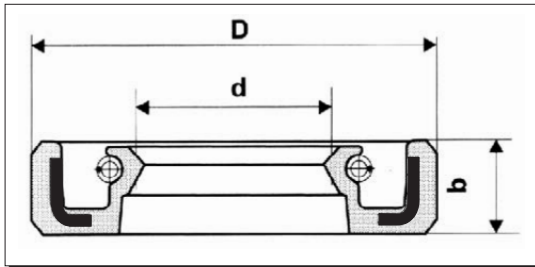




Gufera - hřídelové těsnící kroužky



Hřídelové těsnící kroužky - HTK (gufera) slouží k utěsnění prostorů okolo rotujících hřídelí od kapalných nebo plyných médií. Při těsnění plyných médií se předpokládá stálé mazání těsnícího břitu. Gufero se skládá z gumové - elastomerové části, kovové výztuže a tažné pružiny, která zajišťuje správný radiální přítlak těsnícího břitu, který si díky své úzké těsnící ploše zabezpečuje dlouhou životnost s minimálním třením a vývinem tepla. Elastický vnější plášť eliminuje teplotní roztažnost a povrchovou drsnost v úložném prostoru.

- d - průměr těsněné hřídele
- D - vnější průměr gufera
- b - výška gufera

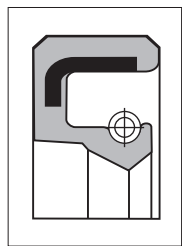
Pro dlouhodobé utěsnění a správnou funkci gufera je třeba správně zvolit:

provedení materiál

Provedení

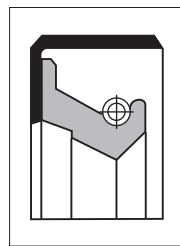
Všechny varianty gufer vychází ze dvou základních provedení

- G (WA) - těsnění s jedním těsnícím břitem
- GP (WAS) - těsnění s jedním těsnícím břitem + prachovka



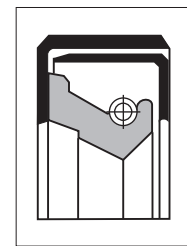
WA G

WA (G) - pryžový elastický vnější plášť eliminuje teplotní roztažnost a větší povrchovou drsnost úložného prostoru. Při častější výměně těsnění není nebezpečí poškození zástavbového prostoru. Typ je vhodný pro běžné utěsnění kapalných a plyných médií. Pro typ WA z materiálu FPM se užívá označení VIA.



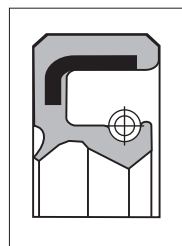
WB

WB - je opatřen kovovým pouzdrem, umožňujícím při montáži snadnější uložení. Vyžaduje však přesnější toleranci úložného prostoru, aby bylo dosaženo dokonalého utěsnění i na vnějším plášti.



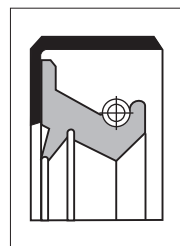
WC

WC - je opatřen kovovým pouzdrem a kovovou výztuží. Montáž je podobná jako u typu WB. Používá se především v těžších a drsnějších provozních podmínkách a větších rozměrech. Vzhledem k výztuži je takové gufero odolnější vůči chybám při montáži.

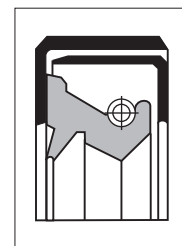


WAS GP

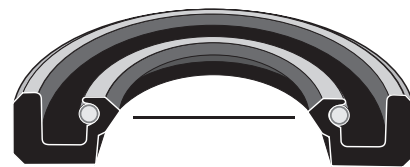
WAS (GP), WBS, WCS - ochranná prachovka zabraňuje přístupu prachu a nečistot do vlastního těsnícího místa. Pokud je prostor mezi těsnícím břitem a prachovkou naplněn vhodnou mazací vazelínou, snižuje se otěr na těsnění a zabraňuje se korozi hřídele. Pro typ WAS z materiálu FPM se užívá označení VIAS.



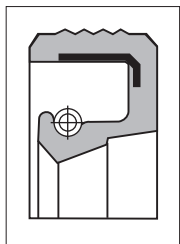
WBS



WCS

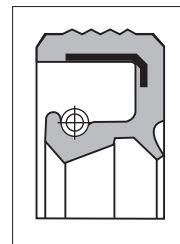


Zvláštní provedení základních typů G a GP (WA a WAS)



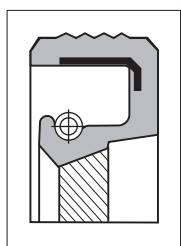
WAX GV

Klasické gufero WA (G) s podélnými drážkami (vlnovcem) na vnější straně pláště pro lepší uložení.



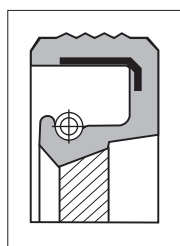
WAG GPV

Klasické gufero WAS (GP) s podélnými drážkami (vlnovcem) na vnější straně pláště pro lepší uložení.



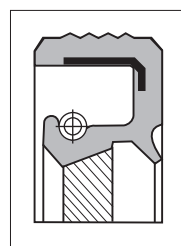
WAC GDLV

Gufero se šroubovicí na břítu pro zpětnou dopravu média doleva. Případně i v provedení "V" (vlnovec - podélné drážky pro uložení).



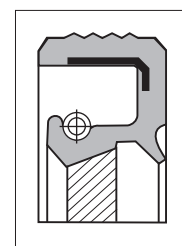
WAH GDPV

Gufero se šroubovicí na břítu pro zpětnou dopravu média doprava. Případně i v provedení "V" (vlnovec - podélné drážky pro uložení).



WAT GPDLV

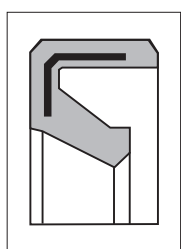
Gufero s prachovkou a šroubovicí na břítu pro zpětnou dopravu média doleva. Případně i v provedení "V" (vlnovec - podélné drážky pro uložení).



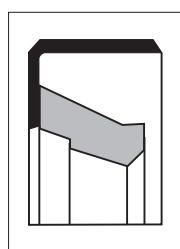
WAV GPDPV

Gufero s prachovkou a šroubovicí na břítu pro zpětnou dopravu média doprava. Případně i v provedení "V" (vlnovec - podélné drážky pro uložení).

Gufera bez tažných pružinek určena pouze pro nenáročná použití

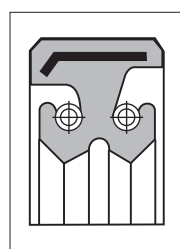


WAO

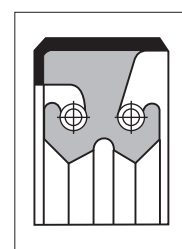


WBO

Gufera se 2 těsnícími břitmi určená k utěšňování dvou médií

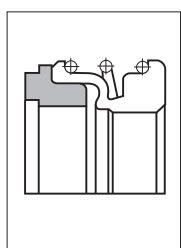


WAD



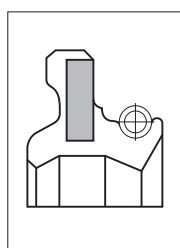
WBD

Zvláštní provedení gufer Rubena



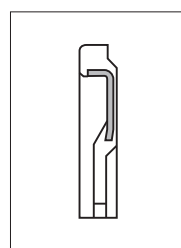
AT

Těsnění axiální



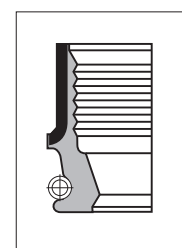
TT

Těsnění tlumičů pérování



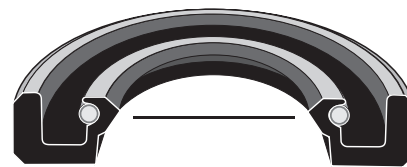
TL

Těsnění ložisek



TV

Těsnění ventilová



Materiál

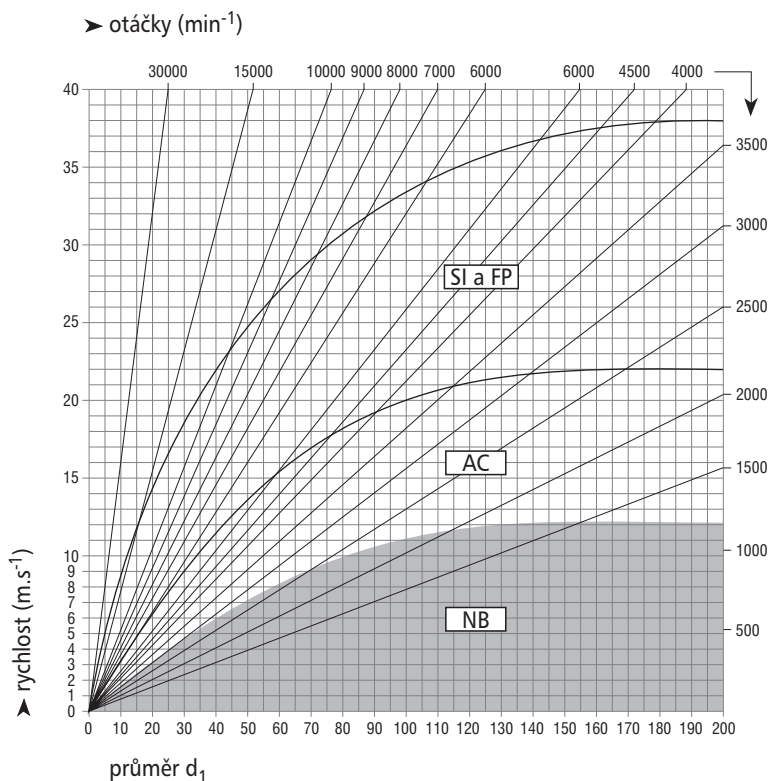
Výběr vhodného elastomeru, materiálu z kterého je gufero vyrobeno, se řídí podle druhu utěšňovaného média, pracovní teploty a obvodové rychlosti hřídele. Při výběru nesmíme též opomenout případné speciální požadavky na korozní ochranu pružiny a případně výtuzného kroužku. Standardním materiálem je NBR. Z ostatních materiálů je nejčastěji používán FPM (viton - fluorkaučuk) případně i SI (silikonkaučuk)

TEPLOTNÍ A CHEMICKÁ ODOLNOST NABÍZENÝCH MATERIÁLŮ

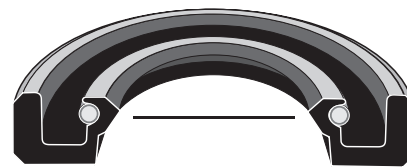
Materiál	Dolní přípustné teploty	POUŽITÁ MÉDIA												
		Média s minerálním základem							Těžkozápalné kapaliny			Ostatní		
		Motorové oleje	Převodové oleje	Hydropoid olej	ATF olej	Tlakové kapaliny	Topné oleje	Tuky	HSB emulze voda - olej	HSC vodné roztoky	HSD bezvodné roztoky	Voda	Prací louhy	Brzdové kapaliny
	°C	Stálé přípustné teploty média °C												
NB	-40	100	80	80	100	90	90	90	70	70	-	90	90	-
AC	-30	130	120	120	130	120	●	●	-	●	-	-	-	-
SI*)	-50	150	130	-	●	●	●	●	●	●	●	-	-	●
FP	-30	170	150	150	170	150	150	●	●	●	150	100	100	●

- Ve skupině jsou známa média, která mohou být uvedeným materiálem těsněna, ale i média, která elastomer ničí.
- Pro tuto skupinu těsněných médií není elastomer stálý.
- * SI lze použít pouze za přístupu kyslíku ze vzduchu na těsněné místo, jinak by mohlo dojít k rozkladu elastomeru.

PŘÍPUSTNÝ POČET OTÁČEK A OBVODOVÉ RYCHLOSTI



Hodnoty maximálních přípustných otáček se vztahují na beztlaké provozní podmínky při správném mazání.



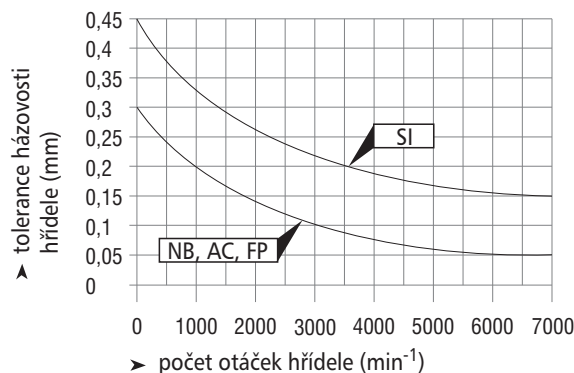
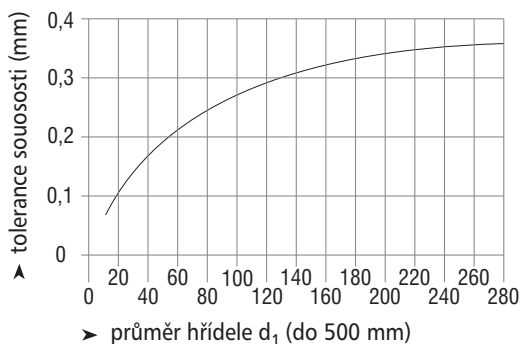
Gufera musí utěšňovat prostory pouze s menšími tlakovými rozdíly.

TABULKA

Tlak bar max.	Otáčky min-1	Rychlost m/s max.
0,5	až 1000	2,8
0,35	až 2000	3,15
0,5	až 3000	5,6

Montáž

- Těsnící břity musí vždy směřovat k utěšňované straně a nesmí být vzpříčeny.
- Kluzné plochy musí být hladké. Povrch hřídele v oblasti kluzných ploch musí být opracován na drsnost od 1 do 4 μ .
- Gufera musí být vůči hřídeli namontována vystředěně a vertikálně, ve směru osy nesmí být nadměrně upnuta a nesmí sloužit k přenosu síly.
- Hrana úložného prostoru by měla být o 5 - 10 % zkosena.
- Nejideálnější je umísťovat gufero v bezprostřední blízkosti ložiska. Tímto umístěním je zajištěna co nejmenší házivost hřídele v oblasti utěsnění a tím prodloužena životnost břitu.
- Tvrdost povrchu třecí plochy na hřídeli by měla být nejméně 45 - 55 HRC. Při povrchovém kalení hřídele je nutná jeho hloubka nejméně 0,3 mm. Při nitridaci je třeba šedou vrstvu vyleštit.

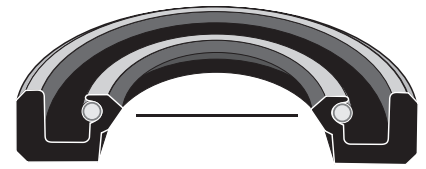


Házivost hřídele je třeba udržovat v nízkých hranicích. Zvláště při vysokých otáčkách vzniká nebezpečí, že břit nebude moci sledovat povrch kmitající hřídele a nastane únik těsněného média. Nejideálnější je umísťovat gufero v bezprostřední blízkosti ložiska. Tímto je zajištěna co nejmenší házivost hřídele v oblasti utěsnění a tím i prodloužena životnost břitu.

Pokyny pro objednání

Objednávejte přesné označení, uvedené v rozměrových řadách. Správným označením typu gufera zároveň určujete, zda chcete gufero tuzemské nebo zahraniční výroby (např. G = tuzemské označení, WA - zahraniční označení).

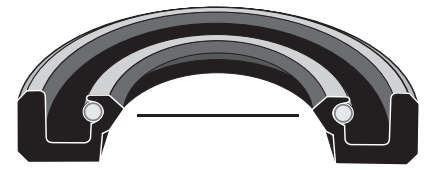
PŘÍKLAD OBJEDNÁVKY		
d x D x b	PROVEDENÍ	MATERIÁL
12 - 25 - 7	G	NBR
5 - 18 - 7	WA	NBR



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□ KTT (Maďarsko)

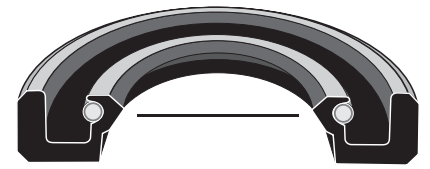
0 - 67 - 25					20 - 45 - 10					
d	D	b	typ	materiál						
0	- 67	- 25	TE	NBR		15	- 25	- 7	G	NBR
6	- 16	- 7	G	NBR		15	- 26	- 7	G	NBR
6	- 22	- 7	G	NBR		15	- 26	- 7	GP	NBR
6	- 22	- 8	G	NBR		15	- 30	- 7	GP	NBR
6	- 26	- 13,4	TR	NBR		15	- 30	- 7	G	NBR
7	- 22	- 7	G	NBR		15	- 30	- 8	GP	NBR
7	- 22	- 8	G	NBR		15	- 30	- 8	G	NBR
8	- 10,8	- 14/10	TV	FPM		15	- 30	- 10	G	NBR
8	- 16	- 7	G	FPM		15	- 32	- 7	G	NBR
8	- 16	- 7	G	NBR		15	- 35	- 7	G	NBR
8	- 16	- 7	G	Si		15	- 35	- 7	G	NBR
8	- 22	- 7	G	NBR		15	- 35	- 10	G	NBR
8	- 22	- 7	G	Si		15	- 35	- 10	G	Si
8	- 22	- 8	G	FPM		15	- 40	- 10	G	NBR
8	- 22	- 8	G	NBR		16	- 24	- 7	G	NBR
8	- 24	- 7	G	NBR		16	- 28	- 7	G	NBR
8	- 30	- 10	G	NBR		16	- 28	- 7	G	Si
9	- 22	- 8	G	NBR		16	- 30	- 7	G	NBR
9	- 24	- 7	G	NBR		16	- 30	- 8	G	FPM
9	- 26	- 7	G	NBR		16	- 30	- 8	G	NBR
9	- 30	- 10	G	NBR		16	- 30	- 8	GP	NBR
10	- 19	- 7	G	NBR		16	- 30	- 10	G	NBR
10	- 19	- 7	G	Si		16	- 32	- 7	G	NBR
10	- 22	- 7	G	FPM		16	- 35	- 8	G	NBR
10	- 22	- 7	G	NBR		16	- 35	- 10	G	NBR
10	- 22	- 8	G	FPM		16	- 35	- 10	GP	NBR
10	- 22	- 8	G	NBR		16	- 40	- 10	G	NBR
10	- 22	- 8	GP	NBR		16	- 40	- 10	G	NBR
10	- 24	- 7	G	NBR		17	- 28	- 7	G	NBR
10	- 25	- 7	G	NBR		17	- 28	- 7	GP	NBR
10	- 26	- 7	G	NBR		17	- 28	- 7	GP	Si
10	- 28	- 8	G	NBR		17	- 30	- 7	G	FMP
10	- 30	- 8	G	NBR		17	- 30	- 7	G	NBR
10	- 30	- 10	G	NBR		17	- 30	- 7	G	NBR
11	- 19	- 5	G	NBR		17	- 32	- 7	G	NBR
11	- 22	- 8	G	FPM		17	- 32	- 7	GP	NBR
11	- 22	- 8	G	NBR		17	- 32	- 7	GP	NBR
11	- 26	- 7	G	NBR		17	- 35	- 7	G	NBR
11	- 30	- 10	G	NBR		17	- 35	- 7	G	NBR
11	- 35	- 10	G	NBR		17	- 35	- 10	G	NBR
12	- 22	- 7	G	FPM		17	- 35	- 10	G	Si
12	- 22	- 7	G	NBR		17	- 40	- 7	G	NBR
12	- 22	- 7	GP	NBR		17	- 40	- 7	G	NBR
12	- 23	- 16	AT	NBR		17	- 40	- 10	G	NBR
12	- 24	- 7	G	NBR		17	- 40	- 10	GP	NBR
12	- 25	- 7	G	FPM		18	- 30	- 7	G	NBR
12	- 25	- 7	G	NBR		18	- 30	- 7	G	NBR
12	- 25	- 7	GP	NBR		18	- 32	- 7	G	NBR
12	- 28	- 7	G	NBR		18	- 32	- 7	GP	NBR
12	- 30	- 7	G	NBR		18	- 35	- 7	G	NBR
12	- 30	- 10	G	NBR		18	- 35	- 10	G	NBR
12	- 35	- 8	G	NBR		18	- 40	- 7	G	NBR
12	- 35	- 10	G	NBR		18	- 40	- 7	G	NBR
12,5	- 23	- 22,5	AT	NBR		18	- 40	- 10	G	NBR
12,7	- 26	- 6	G	NBR		18	- 40	- 10	G	NBR
13	- 26	- 7	GP	NBR		19	- 32	- 7	GP	NBR
13	- 30	- 10	G	NBR		19	- 32	- 7	GP	NBR
13	- 35	- 10	G	NBR		19	- 35	- 10	G	NBR
14	- 22	- 5	GP	NBR		19	- 37	- 7	GP	NBR
14	- 22	- 7	G	NBR		19	- 40	- 10	G	NBR
14	- 24	- 7	G	FPM		19	- 40	- 10	G	NBR
14	- 24	- 7	G	NBR		19	- 47	- 10	G	NBR
14	- 24/30	- 10	GP	NBR		20	- 30	- 7	G	FMP
14	- 24/30	- 15	G	NBR		20	- 30	- 7	G	NBR
14	- 28	- 7	G	NBR		20	- 30	- 7	G	Si
14	- 30	- 7	G	NBR		20	- 30	- 7/11	GDP	Si
14	- 30	- 10	G	NBR		20	- 32	- 7	G	NBR
14	- 35	- 7	G	NBR		20	- 32	- 7	G	NBR
14	- 35	- 10	G	NBR		20	- 35	- 7	G	NBR
14	- 90	- 25	TE	NBR		20	- 35	- 7	G	Si
15	- 24	- 7	G	NBR		20	- 35	- 8	GP	NBR
15	- 24	- 7	G	Si		20	- 35	- 10	G	NBR
						20	- 38	- 7	G	FPM
						20	- 38	- 7	G	NBR
						20	- 38	- 7	GDS	FMP
						20	- 40	- 7	G	NBR
						20	- 40	- 7	GP	NBR
						20	- 40	- 8	G	NBR
						20	- 40	- 10	G	NBR
						20	- 40	- 10	G	Si
						20	- 40	- 10	GP	NBR
						20	- 42	- 7	GP	NBR
						20	- 42	- 7	GP	Si
						20	- 45	- 10	G	NBR



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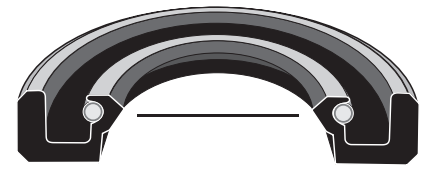
20 - 47 - 7					32 - 50 - 12					
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20	- 47	- 10	GP	NBR		26	- 42	- 7	G	NBR
20	- 47	- 10	GP	Si		26	- 45	- 10	G	NBR
21	- 31	- 3,5	G	NBR		26	- 47	- 10	G	NBR
21	- 40	- 10	G	NBR		26	- 50	- 12	G	NBR
21	- 47	- 10	G	NBR		27	- 40	- 10	G	NBR
22	- 32	- 7	G	FPM		27	- 47	- 10	G	NBR
22	- 32	- 7	G(Pz)	NBR		28	- 35	- 5	G	NBR
22	- 32	- 7	GDVP	Si		28	- 38	- 7	G	NBR
22	- 32	- 7	GDVP	Si		28	- 38	- 7	G	Si
22	- 35	- 7	G	FPM		28	- 40	- 7	G	NBR
22	- 35	- 7	G	NBR		28	- 40	- 7	GP	NBR
22	- 35	- 10	G	NBR		28	- 42	- 7	GPDP	NBR
22	- 40	- 7	G	FPM		28	- 42	- 10	G	NBR
22	- 40	- 7	G	NBR		28	- 43	- 7	GP	NBR
22	- 40	- 7	GP	NBR		28	- 47	- 7	G	FPM
22	- 40	- 10	GP	NBR		28	- 47	- 7	G	NBR
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22	- 42	- 18	AT	NBR		28	- 47	- 7	GP	NBR
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24	- 35	- 7	G	NBR		28	- 47	- 10	GP	NBR
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24	- 40	- 7	G	NBR		28	- 52	- 7	G	NBR
24	- 40	- 8	G	NBR		28	- 52	- 10	GDVP	Si
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24	- 42,9	- 9,5	G	NBR		30	- 40	- 7	GP	NBR
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25	- 62	- 8	G	NBR		32	- 47	- 10	G	Si
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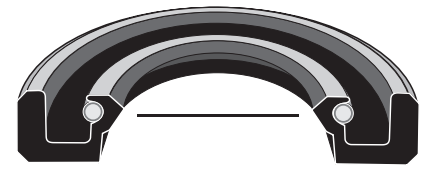
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32	- 52	- 10	GP	NBR	40	- 52	- 7	G	FPM
32	- 52	- 12	G	NBR	40	- 52	- 7	G	NBR
32	- 55	- 10	G	NBR	40	- 52	- 7	G	Si
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32	- 62	- 12	G	NBR	40	- 52	- 7	GPDLV	Si
34	- 45	- 7	G	NBR	40	- 52	- 7	GPDP	Si
34	- 46	- 10	G	NBR	40	- 52	- 7	GPV	Si
35	- 47	- 7	G	FPM	40	- 55	- 7	GPV	NBR
35	- 47	- 7	G	NBR	40	- 55	- 7	GV	FPM
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35	- 47	- 7	GP	NBR	40	- 55	- 8	GPDSAV	NBR
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35	- 52	- 7	G	NBR	40	- 56	- 12	G	Si
35	- 52	- 8	G	NBR	40	- 57,15	- 10	G	NBR
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35	- 52	- 12	G	Si	40	- 58	- 10	G	NBR
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35	- 56	- 12	GPDLV	Si	40	- 62	- 7	G	FPM
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35	- 57	- 9	GDP	NBR	40	- 62	- 7	GP	NBR
35	- 58	- 9	G	FPM	40	- 62	- 7	G	FPM
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35	- 62	- 7	G	NBR	40	- 62	- 8	GDLV	Si
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36	- 56	- 10	G	NBR	40	- 80	- 13	G	NBR
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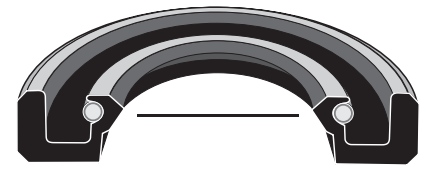
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43	- 65	- 12	G	NBR	50	- 72	- 12	GP	Si
44	- 60	- 7	GDL	NBR	50	- 75	- 10	GP	NBR
44	- 62	- 8	G	NBR	50	- 75	- 12	G	NBR
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50	- 65	- 8	GP WB	NBR	56	- 72	- 12	G	NBR
50	- 65	- 10	G	NBR	56	- 80	- 8	G	NBR
50	- 68	- 8	G	NBR	57	- 85	- 12	G	NBR
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50	- 72	- 8	GP	NBR	60	- 75	- 8	G	NBR
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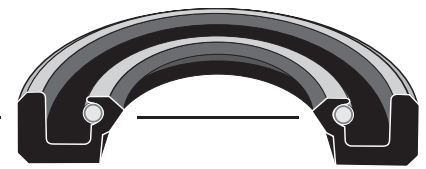
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62	- 90	- 13	G	NBR		75	- 100	- 10	GPV	Si
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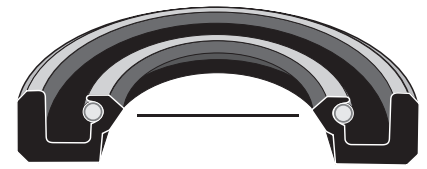
Rubena (ČR), příp. KTT

KTT (Maďarsko)

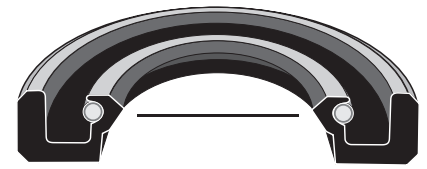
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95	- 120	- 13	GP	NBR	145	- 165	- 13	GP	NBR
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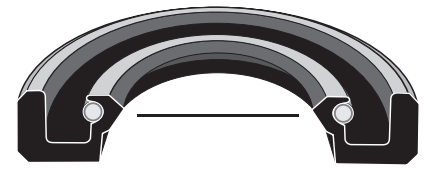
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21	- 48	- 8	WA	NBR	25	- 41	- 7	WAS	NBR
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22	- 30	- 7	WA	NBR	25	- 43	- 9	WA	NBR
22	- 31	- 5	WA	NBR	25	- 44	- 7	WAS	NBR
22	- 32	- 5	WA	NBR	25	- 45	- 7	VIA	FPM
22	- 33	- 6,5	WAS	NBR	25	- 45	- 7	WA	NBR
22	- 35	- 5	WAS	NBR	25	- 45	- 10	WAS	NBR
22	- 35	- 7	WAS	NBR	25	- 46	- 7	WA	NBR
22	- 36	- 8	WAS	NBR	25	- 47	- 8	WA	NBR
22	- 37	- 7	WA	NBR	25	- 47	- 8	WAS	NBR
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					25	- 48	- 8	WAS	NBR
					25	- 50	- 7	WA	NBR
					25	- 52	- 7	WB	NBR
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					28	- 47	- 10	WB	NBR
					28	- 47	- 10	VIAS	FPM
					28	- 48	- 5	WA	NBR
					28	- 48	- 8	WAS	NBR



28 - 52 - 7					38 - 80 - 10									
d	D	b	typ	materiál										
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28	- 52	- 10	WAS	NBR	31,75- 50,8	- 9,52	WA	NBR	35	- 50	- 12	WC	NBR	
28	- 62	- 10	WA	NBR	31,75- 52,38	- 9,52	WA	NBR	35	- 52	- 10	VIA	FPM	
28,57- 35,1	- 4		WBO	NBR	31,75- 53,97	- 9,52	WA	NBR	35	- 52	- 12	WAS	NBR	
28,57- 38,1	- 6,35		WA	NBR	31,75- 53,97	- 9,52	WAS	NBR	35	- 54	- 8	WA	NBR	
28,57- 39,69	- 9,52		WA	NBR	31,75- 55,56	- 11,11	WA	NBR	35	- 55	- 10	VIA	FPM	
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28,57- 44,45	- 9,52		WAS	NBR	31,75- 63,50	- 9,52	WA	NBR	35	- 55	- 12	WC	NBR	
28,57- 47,62	- 9,52		WAS	NBR	31,75- 69,85	- 9,52	WA	NBR	35	- 56	- 10	WC	NBR	
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29	- 41	- 6	WA	NBR	32	- 48	- 8	VIA	FPM	35	- 68	- 6	WA	NBR
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30	- 50	- 7	WA	NBR	33,33- 47,62	- 7,93	WA	NBR	37	- 55	- 8	WAS	NBR	
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30	- 52	- 9	WC	NBR	34	- 48	- 8	WAS	NBR	38	- 48	- 6	WAS	NBR
30	- 54	- 10	WA	NBR	34	- 50	- 10	WA	NBR	38	- 52	- 7	VIA	FPM
30	- 55	- 10	WA	NBR	34	- 52	- 10	WA	NBR	38	- 54	- 10	VIA	FPM
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30	- 62	- 10	WA	NBR	34	- 72	- 10	WA	NBR	38	- 58	- 11	WBS	NBR
30	- 65	- 10	WA	NBR	34,92- 47,62	- 7,93	WA	NBR	38	- 64	- 12	WA	NBR	
30	- 72	- 10	WA	NBR	34,92- 49,9	- 9,92	VIA	FPM	38	- 65	- 10	WA	NBR	
30	- 72	- 10	WAS	NBR	34,92- 50,8	- 9,52	WA	NBR	38	- 70	- 12	WA	NBR	
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30,16- 44,45	- 6,35		WA	NBR	34,92- 53,97	- 9,52	WA	NBR	38	- 80	- 10	WA	NBR	
30,16- 47,62	- 7,93		WA	NBR	34,92- 57,15	- 9,52	WA	NBR	38,1	- 47,62	- 9,52	WA	NBR	
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31	- 52	- 7	WA	NBR	34,92- 66,67	- 9,52	WA	NBR	38,1	- 53,97	- 9,52	WA	NBR	
31	- 52	- 9	WA	NBR	35	- 42	- 4	WBO	NBR	38,1	- 54,96	- 7,14	WB	NBR
31	- 55	- 9	WA	NBR	35	- 42	- 8	WAS	NBR	38,1	- 55,56	- 7,93	WA	NBR
31,75- 41,27	- 6,35		WA	NBR	35	- 43	- 6	WA	NBR	38,1	- 57,15	- 12,7	WA	NBR
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31,75- 44,45	- 6,35		WA	NBR	35	- 45	- 7	WA	NBR	38,1	- 60,32	- 12,7	WA	NBR
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					35	- 47	- 7	WAS	NBR	38,1	- 61,91	- 9,52	WA	NBR
					35	- 47	- 10	WAS	NBR	38,1	- 63,5	- 6,35	WA	NBR
					35	- 48	- 8	WA	NBR	38,1	- 63,5	- 7,93	WA	NBR



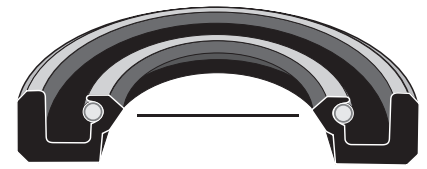
38 - 66 - 12

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38,1	- 66,67	- 12,7	WA	NBR
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39,68	- 62,5	- 12,7	WA	NBR
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39,68	- 68,26	- 9,52	WA	NBR
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40	- 56	- 8	WA	NBR
40	- 56	- 10	VIA	FPM
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40	- 58	- 8	VIAS	FPM
40	- 60	- 7	WAS	NBR
40	- 62	- 7	VIA	FPM
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42	- 60	- 7	WAS	NBR
42	- 60	- 10	VIA	FPM
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42	- 64	- 7	WA	NBR
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42	- 68	- 10	WAS	NBR
42	- 72	- 10	VIA	FPM
42	- 72	- 10	WC	NBR
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42	- 80	- 10	WA	NBR
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42,86	- 57,15	- 7,93	WA	NBR
42,86	- 63,5	- 9,52	WA	NBR
42,86	- 68,26	- 12,7	WA	NBR
42,86	- 69,85	- 9,52	WBS	NBR
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43	- 54	- 9	WAS	NBR
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44	- 60	- 9	WAS	NBR
44	- 60	- 10	VIA	FPM
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44	- 70	- 12	WC	NBR
44,45	- 53,97	- 4,76	WA	NBR
44,45	- 57,15	- 9,52	WA	NBR
44,45	- 58,73	- 6,35	WA	NBR
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44,45	- 68,26	- 11,11	WA	NBR
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44,5	- 62	- 10	WA	NBR
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45	- 55	- 7	WA	NBR
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46,2	- 80	- 10	WA	NBR

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50	- 90	- 10	WAS	NBR
50	- 90	- 13	WC	NBR
50	- 110	- 10	WAS	NBR
50,8	- 63,50	- 6,35	WA	NBR
50,8	- 66,67	- 9,52	WA	NBR
50,8	- 68,26	- 12,7	WA	NBR
50,8	- 69,85	- 6,35	WA	NBR
50,8	- 73,02	- 12,7	WA	NBR
50,8	- 74,18	- 7,93	WA	NBR
50,8	- 76,20	- 9,52	WA	NBR
50,8	- 79,37	- 9,52	WA	NBR
50,8	- 82,55	- 9,52	WA	NBR
50,8	- 88,90	- 12,7	WA	NBR
51	- 65	- 9	WBS	NBR
52	- 62	- 8	VIA	FPM
52	- 65	- 8	WA	NBR
52	- 70	- 9	- WAS	NBR
52	- 72	- 8	WA	NBR
52	- 72	- 10	WA	NBR
52	- 75	- 10	WA	NBR
52	- 85	- 10	WC	NBR
52	- 85	- 10	WAS	NBR
52	- 90	- 13	WC	NBR
52,38	- 66,67	- 7,93	WA	NBR
52,38	- 73,02	- 9,52	WA	NBR
52,38	- 75,20	- 9,52	WA	NBR
52,38	- 80,96	- 9,52	WA	NBR



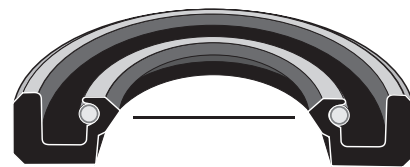
78 - 100 - 10

d	D	b	typ	materiál
78	- 100	- 10	WAS	NBR
78	- 100	- 13	WA	NBR
79,37	- 101,6	- 12,7	WA	NBR
79,37	- 114,3	- 12,7	WA	NBR
79,37	- 120,65	- 12,7	WA	NBR
80	- 90	- 5	WAO	NBR
80	- 100	- 10	VIA	FPM
80	- 100	- 13	WC	NBR
80	- 105	- 10	WA	NBR
80	- 105	- 12	WA	NBR
80	- 110	- 10	VIA	FPM
80	- 110	- 10	VIAS	FPM
80	- 110	- 13	VIAS	FPM
80	- 113	- 12	WA	NBR
80	- 115	- 12	WA	NBR
80	- 120	- 13	WC	NBR
80	- 120	- 13	WAS	NBR
80	- 125	- 12	WA	NBR
80	- 130	- 13	WA	NBR
80	- 140	- 13	WA	NBR
80	- 145	- 13	WA	NBR
80,96	- 111,12	12,7	WA	NBR
80,96	- 120,65	12,7	WAS	NBR
82	- 100	- 8	WA	NBR
82,55	- 101,6	- 12,7	WA	NBR
82,55	- 107,9	- 12,7	WA	NBR
82,55	- 120,65	12,7	WA	NBR
83	- 110	- 12	WC	NBR
84	- 105	- 12	WAS	NBR
84,13	- 111,12	12,7	WA	NBR
85	- 105	- 10	WA	NBR
85	- 105	- 10	WAS	NBR
85	- 105	- 12	VIA	FPM
85	- 110	- 12	VIA	FPM
85	- 115	- 13	WA	NBR
85	- 125	- 12	WA	NBR
85	- 126	- 13	WA	NBR
85	- 130	- 12	WA	NBR
85	- 130	- 12	WAS	NBR
85	- 140	- 12	WA	NBR
85	- 150	- 13	WA	NBR
85,72	- 111,12	12,7	WA	NBR
85,72	- 114,13	12,7	WA	NBR
85,72	- 127	- 12,7	WA	NBR
86	- 110	- 13	WA	NBR
87	- 110	- 13	WA	NBR
87,31	- 114,3	- 12,7	WA	NBR
88	- 100	- 13	WA	NBR
88	- 120	- 12	WA	NBR
88	- 121,5	- 12	WA	NBR
88	- 126	- 12	WA	NBR
88	- 128	- 12	WA	NBR
88	- 140	- 13	WA	NBR
88,9	- 104,77	9,52	WA	NBR
88,9	- 111,12	12,7	WAS	NBR
88,9	- 114,3	- 12,7	WAS	NBR
88,9	- 120,65	12,7	WA	NBR
88,9	- 127	- 12,7	WA	NBR
88,9	- 136,52	12,7	WA	NBR
90	- 110	- 10	WA	NBR
90	- 110	- 12	WA	NBR
90	- 115	- 10	WA	NBR
90	- 118	- 12	WBS	NBR
90	- 120	- 10	WA	NBR
90	- 120	- 13	WAS	NBR
90	- 120	- 13	WCS	NBR
90	- 130	- 13	WA	NBR
90	- 140	- 13	WA	NBR
90	- 160	- 12	WA	NBR
92	- 120	- 13	WA	NBR
92,07	- 111,12	11,11	WAS	NBR
92,07	- 114,30	12,7	WA	NBR

135 - 180 - 15

95	- 112	- 12	WAS	NBR
95	- 115	- 8	WA	NBR
95	- 115	- 13	WAS	NBR
95	- 120	- 12	WC	NBR
95	- 135	- 13	WA	NBR
95	- 136	- 13	WA	NBR
95	- 145	- 13	WA	NBR
95	- 150	- 15	WA	NBR
95,25	- 114,30	12,7	WA	NBR
95,25	- 120,65	12,7	WA	NBR
95,25	- 127,00	12,7	WA	NBR
95,25	- 133,35	12,7	WA	NBR
95,25	- 136,52	11,11	WA	NBR
96	- 112	- 10	WA	NBR
96	- 136	- 12	WA	NBR
96,83	- 123,82	12,7	WA	NBR
98	- 125	- 13	WA	NBR
98	- 128	- 10	WA	NBR
98	- 130	- 13	WB	NBR
98,42	- 123,35	12,7	WA	NBR
98,42	- 123,82	12,7	WA	NBR
98,42	- 127,00	12,7	WA	NBR
100	- 115	- 9	WA	NBR
100	- 120	- 10	WA	NBR
100	- 120	- 10	WC	NBR
100	- 125	- 12	VIA	FPM
100	- 125	- 12	WAS	NBR
100	- 125	- 13	WAS	NBR
100	- 127	- 13	WA	NBR
100	- 135	- 13	WA	NBR
100	- 140	- 12	WA	NBR
100	- 150	- 13	WA	NBR
100	- 160	- 15	WC	NBR
100	- 180	- 13	WA	NBR
100	- 185	- 13	WA	NBR
100,01	127	- 12,7	WA	NBR
101,6	- 120,65	12,7	WA	NBR
101,6	- 127	- 9,52	WA	NBR
101,6	- 133,35	12,7	WA	NBR
102	- 115	- 10	WAS	NBR
102	- 135	- 13	WA	NBR
103	- 125	- 13	WC	NBR
104	- 125	- 10	VIA	FPM
104,77	130,17	12,7	WA	NBR
105	- 120	- 15	WC	NBR
105	- 125	- 13	WA	NBR
105	- 130	- 12	VIA	FPM
105	- 130	- 13	VIAS	FPM
105	- 135	- 13	WA	NBR
105	- 145	- 13	WB	NBR
106,36	133,35	12,7	WA	NBR
107,95	133,35	12,7	WA	NBR
107,95	139,7	- 12,7	WA	NBR
107,95	142,87	12,7	WA	NBR
107,95	146,05	11,11	WA	NBR
107,95	152,4	- 14,28	WA	NBR
108	- 130	- 13	WC	NBR
108	- 140	- 13	WC	NBR
110	- 125	- 13	WA	NBR
110	- 128	- 9	WC	NBR
110	- 130	- 12	VIA	FPM
110	- 135	- 13	WA	NBR
110	- 135	- 13	WAS	NBR
110	- 140	- 12	WA	NBR
110	- 140	- 12	VIAS	FPM
110	- 140	- 13	WCS	NBR
110	- 145	- 13	WA	NBR
110	- 150	- 13	WA	NBR
110	- 155	- 15	WA	NBR
110	- 160	- 15	WA	NBR
110	- 170	- 12	WAS	NBR
110	- 200	- 13	WAS	NBR
111,12	136,52	12,7	WA	NBR

112	- 140	- 13	WA	NBR
114,3	- 133,35	12,7	WAS	NBR
114,3	- 139,7	- 12,7	WAS	NBR
114,3	- 139,7	- 9,52	WA	NBR
114,3	- 146,05	12,7	WA	NBR
114,30	139,70	9,52	WA	NBR
114,30	146,05	12,7	WA	NBR
114,30	155,57	14,28	WAS	NBR
115	- 130	- 12	WA	NBR
115	- 135	- 13	WB	NBR
115	- 140	- 12	VIA	FPM
115	- 145	- 14	WA	NBR
115	- 150	- 12	VIA	FPM
115	- 150	- 13	WA	NBR
115	- 150	- 15	WAS	NBR
115	- 160	- 15	WA	NBR
115	- 165	- 15	WAS	NBR
117,47	142,87	12,7	WA	NBR
118	- 136	- 13	WB	NBR
118	- 140	- 13	WA	NBR
120	- 140	- 10	WA	NBR
120	- 140	- 13	WA	NBR
120	- 140	- 14	WAS	NBR
120	- 145	- 12	WA	NBR
120	- 150	- 12	VIAS	FPM
120	- 150	- 12	WAS	NBR
120	- 150	- 15	WAS	NBR
120	- 155	- 15	WAS	NBR
120	- 170	- 15	WC	NBR
120,65	146,05	12,7		NBR
122	- 150	- 15	WA	NBR
125	- 140	- 10	WA	NBR
125	- 143	- 13	WAS	NBR
125	- 145	- 7,5	WA	NBR
125	- 150	- 12	VIA	FPM
125	- 150	- 13	WC	NBR
125	- 155	- 12	WA	NBR
125	- 160	- 15	WC	NBR
125	- 170	- 15	WC	NBR
127	- 146,05	12,70	WA	NBR
127	- 150	- 13	WA	NBR
127	- 152,4	- 12,70	WAS	NBR
127	- 158,75	15,87	WC	NBR
127	- 165,1	- 12,7	WAS	NBR
127	- 170	- 14	WA	NBR
128	- 146	- 13,5	WAS	NBR
128	- 150	- 13	WA	NBR
130	- 150	- 10	WA	NBR
130	- 150	- 15	WAS	NBR
130	- 155	- 10	WC	NBR
130	- 160	- 12	VIA	FPM
130	- 160	- 12	WA	NBR
130	- 160	- 12	WAS	NBR
130	- 160	- 13	WA	NBR
130	- 160	- 14	WA	NBR
130	- 160	- 15	VIA	FPM
130	- 162	- 9	WAS	NBR
130	- 165	- 15	WA	NBR
130	- 170	- 15	WA	NBR
130	- 180	- 15	WC	NBR
130,17	- 155,57	- 12,7	WA	NBR
132	- 160	- 13	WC	NBR
133,35	- 158,75	- 12,7	WA	NBR
133,35	- 165,1	- 14,28	WA	NBR
135	- 155	- 12	WA	NBR
135	- 160	- 12	WA	NBR
135	- 162	- 13	WBS	NBR
135	- 165	- 12	WA	NBR
135	- 165	- 12	WAS	NBR
135	- 165	- 15	WAS	NBR
135	- 170	- 12	VIA	FPM
135	- 170	- 15	WA	NBR
135	- 180	- 15	WA	NBR



420 - 460 - 20

d	D	b	typ	materiál
420	460	20	WCS	NBR
420	470	15	WA	NBR
435	465	18	WB	NBR
440	470	20	WC	NBR
440	480	20	WA	NBR
440	480	20	WC	NBR

450	500	25	WA	NBR
460	500	20	WC	NBR
460	510	25	WC	NBR
467	510	20	WA	NBR
470	520	22	WA	NBR
482	530	20	WC	NBR
500	540	20	WC	NBR

600 - 640 - 20

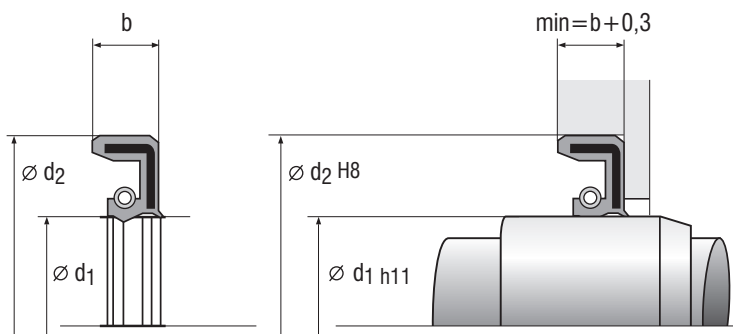
500	550	25	WA	NBR
530	565	20	WC	NBR
540	590	20	VIAS	FPM
546	596,9	19,05	WC	NBR
560	590	20	VIAS	FPM
600	640	20	WC	NBR

Tlaková gufera

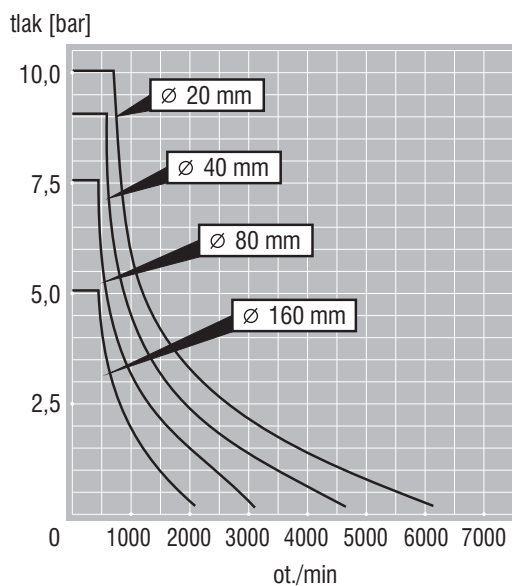
Výrobce: Simrit

Označení: BABSL

Provedení: BABSL - NBR v rozměrech d1 8 - 340 mm (materiál NBR 72, teplotní odolnost -40 +100°C)
BABSL - FPM v rozměrech d1 8 - 170 mm (materiál FPM 75, teplotní odolnost -25 +160°C)



Graf znázorňující maximální těsný tlak v závislosti na otáčkách a průměru těsněné hřídele



Všechny rozměry na poptávku