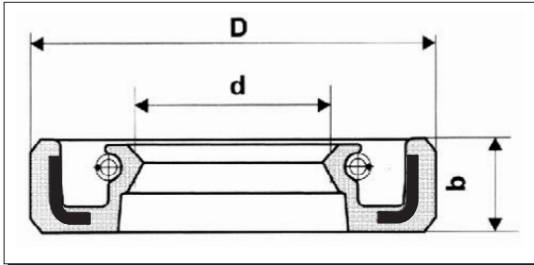




Gufera - hřídelové těsnící kroužky



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

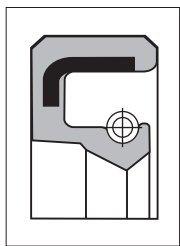
Pro dlouhodobé utěsnění a správnou funkci gufera je třeba správně zvolit:

provedení materiál

Provedení

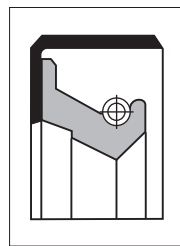
Všechny varianty gufer vychází ze dvou základních provedení

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



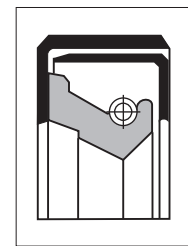
WA G

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.



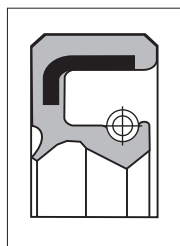
WB

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



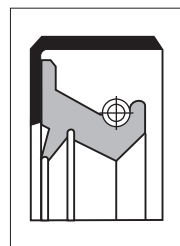
WC

WC - je opatřen kovovým pouzdem 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.

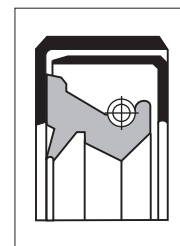


WAS GP

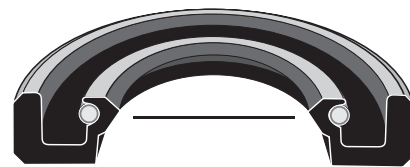
WAS (GP), WBS, WCS - ochranná prachovka zabraňuje přístupu prachu a nečistot do vlastního těsnícího místa. Pokud je prostor mezi těsnícím břitem a prachovkou naplněn vhodnou mazací vazelínou, snižuje se otěr na těsnění a zabraňuje se korozi hřídele. Pro typ WAS z materiálu FPM se užívá označení VIAS.



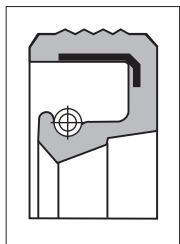
WBS



WCS

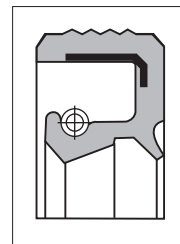


Zvláštní provedení základních typů G a GP (WA a WAS)



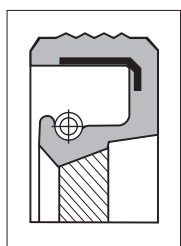
WAX GV

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



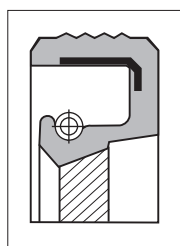
WAG GPV

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



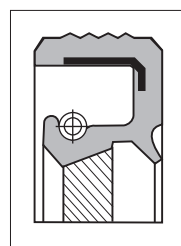
WAC GDLV

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



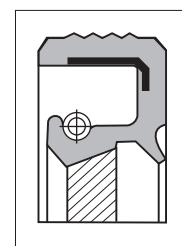
WAH GDPV

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



WAT GPDLV

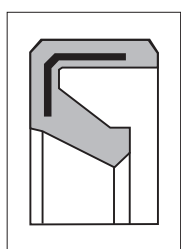
Gufero s prachovkou a šroubovicí na břitu pro zpětnou dopravu média doleva. Případně i v provedení "V" (vlnovec - podélné drážky pro uložení).



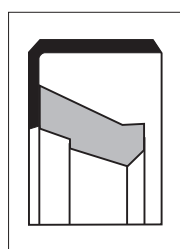
WAV GPDPV

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

Gufera bez tažných pružinek určena pouze pro nenáročná použití

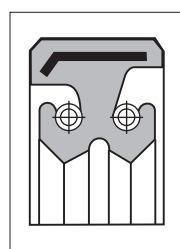


WAO

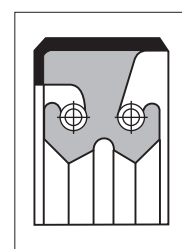


WBO

Gufera se 2 těsnícími břitmi určená k utěšňování dvou médií

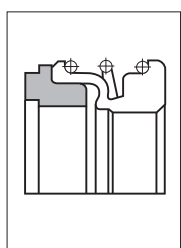


WAD



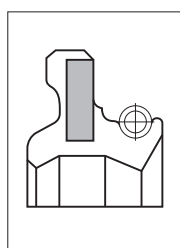
WBD

Zvláštní provedení gufer Rubena



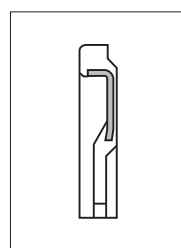
AT

Těsnění axiální



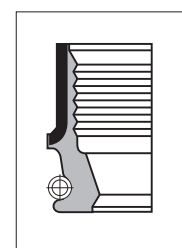
TT

Těsnění tlumičů pérování



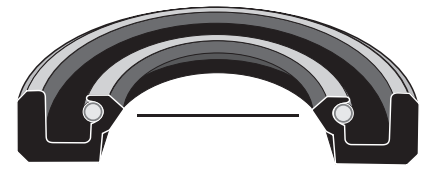
TL

Těsnění ložisek



TV

Těsnění ventilová



Materiál

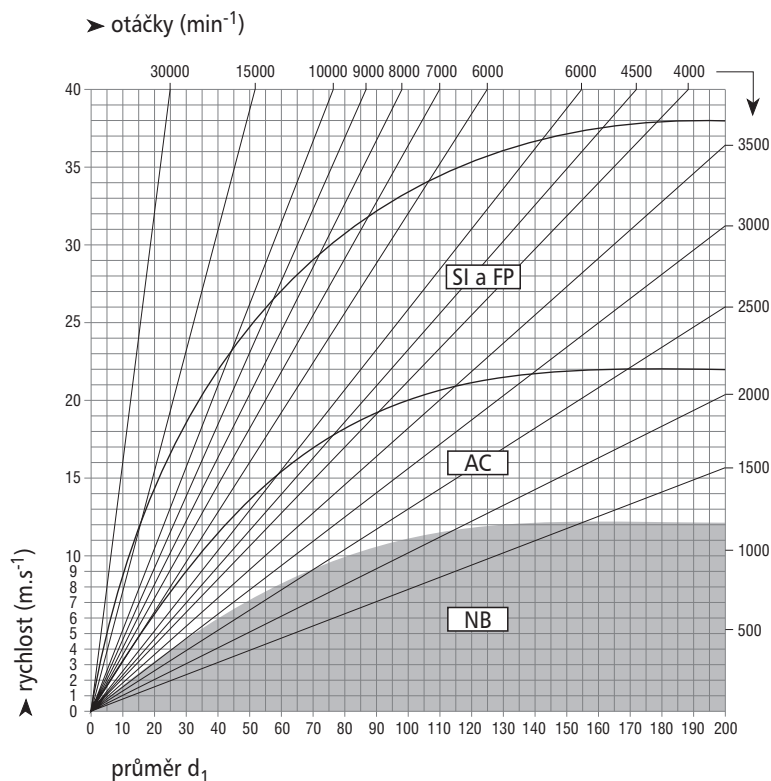
Výběr vhodného elastomeru, materiálu z kterého je gufero vyrobeno, se řídí podle druhu utěšňovaného média, pracovní teploty a obvodové rychlosti hřídele. Při výběru nesmíme též opomenout případné speciální požadavky na korozní ochranu pružiny a případně výztužného kroužku. Standardním materiálem je NBR.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

TEPLOTNÍ A CHEMICKÁ ODOLNOST NABÍZENÝCH MATERIÁLŮ

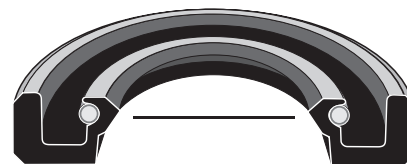
Materiál	Dolní přípustné teploty	POUŽITÁ MÉDIA												
		Média s minerálním základem							Těžkozápalmé kapaliny			Ostatní		
		Motorové oleje	Převodové oleje	Hydropoid oleje	ATF oleje	Tlakové kapaliny	Topné oleje	Tuky	HSB emulze voda - olej	HSC vodné roztoky	HSD bezvodné roztoky	Voda	Prací louhy	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.



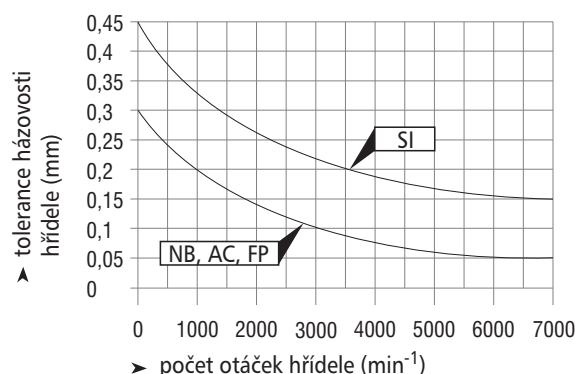
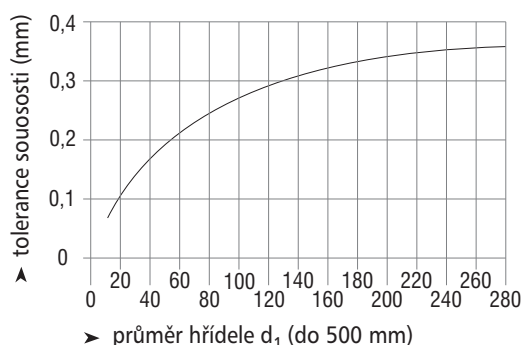
Gufera musí utěšňovat prostory pouze s menšími tlakovými rozdíly.

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.

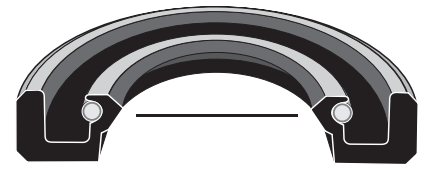


Házivost hřídele je třeba udržovat v nízkých hranicích. Zvláště při vysokých otáčkách vzniká nebezpečí, že břit nebude moci sledovat povrch kmitající hřídele a nastane únik těsněného média. Nejideálnější je umísťovat gufero v bezprostřední blízkosti ložiska. Tímto je zajištěna co nejmenší házivost hřídele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

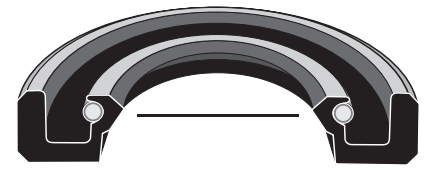
PŘÍKLAD OBJEDNÁVKY		
d x D x b	PROVEDENÍ	MATERIÁL
12 - 25 - 7	G	NBR
5 - 18 - 7	WA	NBR



■ Rubena (ČR), příp. KTT

□ KTT (Maďarsko)

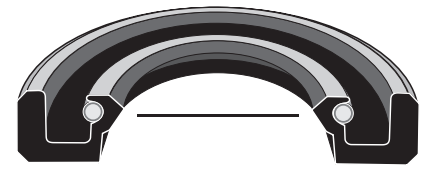
0 - 67 - 25					20 - 45 - 10				
d	D	b	typ	materiál					
0	- 67	- 25	TE	NBR					
6	- 16	- 7	G	NBR					
6	- 22	- 7	G	NBR					
6	- 22	- 8	G	NBR					
6	- 26	- 13,4	TR	NBR					
7	- 22	- 7	G	NBR					
7	- 22	- 8	G	NBR					
8	- 10,8	- 14/10	TV	FPM					
8	- 16	- 7	G	FPM					
8	- 16	- 7	G	NBR					
8	- 16	- 7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



Rubena (ČR), příp. KTT

KTT (Maďarsko)

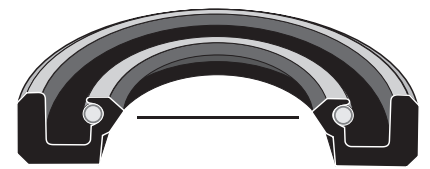
20 - 47 - 7					32 - 50 - 12					
d	D	b	typ	materiál						
20	- 47	- 7	G	NBR		25	- 62	- 8	G	Si
20	- 47	- 7	G	NBR		25	- 62	- 10	G	NBR
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20	- 47	- 10	GP	Si		26	- 45	- 10	G	NBR
21	- 31	- 3,5	G	NBR		26	- 47	- 10	G	NBR
21	- 40	- 10	G	NBR		26	- 50	- 12	G	NBR
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22	- 32	- 7	G	FPM		27	- 47	- 10	G	NBR
22	- 32	- 7	G(Pz)	NBR		28	- 35	- 5	G	NBR
22	- 32	- 7	GDPV	Si		28	- 38	- 7	G	NBR
22	- 32	- 7	GDPV	Si		28	- 38	- 7	G	Si
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22	- 35	- 10	G	NBR		28	- 42	- 7	GPDP	NBR
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24	- 42,9	- 9,5	G	NBR		30	- 40	- 7	GP	Si
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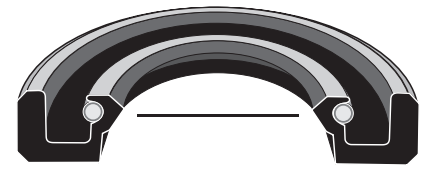
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35	- 52	- 8	G	NBR	40	- 57,15	- 10	G	NBR
35	- 52	- 10	GP	NBR	40	- 57,15	- 10	G	NBR
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35	- 56	- 12	G	Si	40	- 60	- 10	GP	NBR
35	- 56	- 12	GP	NBR	40	- 60	- 12	G	NBR
35	- 56	- 12	GPDLV	Si	40	- 62	- 7	G	FPM
35	- 57	- 9	GDL	NBR	40	- 62	- 7	G	NBR
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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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38	- 62	- 12	GP	NBR	42	- 68	- 10	GP	NBR
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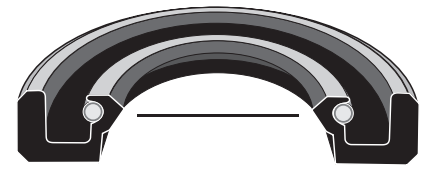
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43	- 65	- 12	G	NBR	50	- 72	- 12	GP	Si
44	- 60	- 7	GDL	NBR	50	- 75	- 10	GP	NBR
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44,5	- 64	- 8	GDP	NBR	50	- 80	- 13	G	NBR
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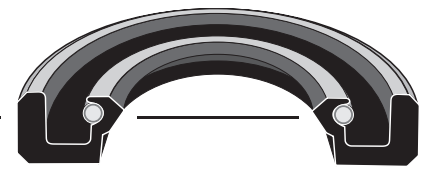
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70	- 90	- 10	GPDL	FPM		85	- 105	- 10	G	NBR
70	- 90	- 12	G	NBR		85	- 105	- 10	GDL	NBR
70	- 90	- 13	G	FPM		85	- 105	- 12	GPDLV	FPM
70	- 90	- 13	G	NBR		85	- 110	- 10	GP	NBR
70	- 90	- 13	G	Si		85	- 110	- 12	G	NBR
70	- 90	- 13	GP	NBR		85	- 110	- 12	G	NBR
70	- 90	- 13	GP	Si		85	- 110	- 12	GP	NBR
70	- 92	- 12	G	NBR		85	- 110	- 12	GV	FPM
70	- 95	- 10	G	NBR		85	- 110	- 13	G	NBR
70	- 95	- 10	GPV	NBR		85	- 110	- 13	GDLV	Si
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70	- 100	- 13	G	FPM		85	- 110	- 13	GP	Si
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70	- 100	- 13	G	NBR		85	- 120	- 12	G	NBR



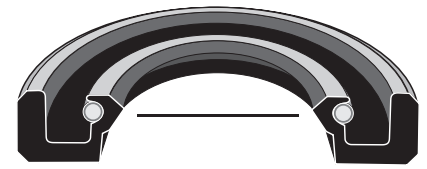
Rubena (ČR), příp. KTT

KTT (Maďarsko)

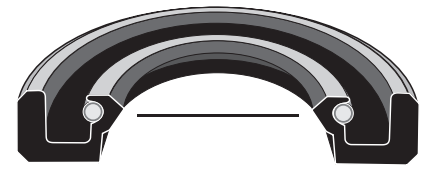
85 - 120 - 13					320 - 360 - 20				
d	D	b	typ	materiál					
85	- 120	- 13	G	NBR	130	- 160	- 15	G	NBR
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90	- 110	- 10	GP	NBR	130	- 160	- 15	GPDL	Si
90	- 110	- 13	G	FPM	130	- 170	- 12	G	NBR
90	- 110	- 13	G	NBR	130	- 170	- 14	G	NBR
90	- 110	- 13	G	Si	135	- 160	- 15	G	NBR
90	- 110	- 13	GP	NBR	135	- 170	- 12	G	NBR
90	- 110	- 13	GP	Si	140	- 160	- 15	G	NBR
90	- 120	- 13	G	FPM	140	- 165	- 15	G	NBR
90	- 120	- 13	G	NBR	140	- 170	- 14	G	NBR
90	- 120	- 13	GP	Si	140	- 170	- 15	G	NBR
90	- 125	- 13	G	NBR	140	- 170	- 15	GP	NBR
95	- 110	- 13	G	NBR	140	- 170	- 15	GP	Si
95	- 120	- 12	G	NBR	140	- 180	- 15	G	NBR
95	- 120	- 13	G	NBR	142	- 168	- 13/16	GP	NBR
95	- 120	- 13	GP	NBR	145	- 165	- 13	GP	NBR
95	- 120	- 13	GP	NBR	145	- 165	- 14	G	NBR
95	- 120	- 13	GV	Si	145	- 170	- 15	GP	NBR
95	- 125	- 12	G	NBR	145	- 175	- 15	G	NBR
95	- 125	- 12	GP	NBR	150	- 180	- 15	G	FPM
95	- 125	- 13	G	NBR	150	- 180	- 15	G	NBR
95	- 130	- 13	G	NBR	150	- 180	- 15	G	Si
95	- 130	- 13	GP	NBR	150	- 180	- 15	GP	NBR
98	- 120	- 14	G	NBR	150	- 180	- 15	GP	Si
100	- 120	- 10	GP	NBR	150	- 180	- 15	GPDLV	FPM
100	- 120	- 12	G	NBR	150	- 180	- 15	GPDLV	Si
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100	- 130	- 13	GP	NBR	170	- 200	- 15	G	Si
105	- 130	- 12	G	NBR	170	- 200	- 15	GP	NBR
105	- 130	- 13	G	NBR	170	- 200	- 15	GP	Si
105	- 130	- 13	GP	NBR	180	- 220	- 16	G	NBR
105	- 140	- 13	G	NBR	180	- 220	- 16	GP	NBR
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105	- 150	- 15	G	NBR	190	- 220	- 15	G	NBR
110	- 130	- 12	G	NBR	190	- 220	- 16	G	NBR
110	- 130	- 12	GP	NBR	190	- 225	- 12	GP	NBR
110	- 130	- 13	G	NBR	200	- 230	- 15	G	NBR
110	- 130	- 13	GDL	Si	200	- 230	- 16	G	NBR
110	- 130	- 13	GP	NBR	200	- 230	- 16	G	Si
110	- 130	- 13	GPDL	Si	200	- 240	- 16	G	NBR
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110	- 140	- 13	G	Si	210	- 240	- 15	G	NBR
110	- 140	- 13	GP	NBR	210	- 240	- 15	G	Si
110	- 140	- 13	GP	Si	210	- 250	- 16	G	NBR
115	- 140	- 12	G	NBR	215	- 250	- 16	G	NBR
115	- 140	- 12	GP	NBR	220	- 250	- 16	G	NBR
115	- 140	- 13	G	NBR	220	- 250	- 16	GP	NBR
115	- 140	- 13	GP	NBR	230	- 260	- 15	G	NBR
115	- 140	- 14	G	NBR	230	- 280	- 16	G	NBR
120	- 140	- 13	GPDL	NBR	240	- 280	- 16	G	NBR
120	- 140	- 15	GDLV	Si	250	- 280	- 16	G	NBR
120	- 150	- 12	G	NBR	250	- 280	- 16	GP	FKM
120	- 150	- 13	GP	NBR	260	- 290	- 16	G	NBR
120	- 150	- 15	G	NBR	260	- 300	- 16	G	NBR
120	- 160	- 12	G	NBR	260	- 310	- 18	G	NBR
120	- 160	- 15	G	NBR	280	- 310	- 15	G	NBR
120	- 160	- 16	GP	NBR	280	- 320	- 16	G	NBR
125	- 150	- 12	G	NBR	280	- 320	- 20	G	NBR
125	- 150	- 13	GP	NBR	290	- 326	- 16	G	NBR
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125	- 160	- 12	G	NBR	300	- 340	- 20	G	NBR
125	- 160	- 15	G	NBR	320	- 360	- 18	G	NBR
125	- 160	- 15	GP	NBR	320	- 360	- 20	G	NBR
130	- 154	- 14	GP	NBR					
130	- 160	- 12	G	NBR					



4 - 12 - 6					10 - 28 - 7					15 - 30 - 10					18 - 38 - 7				
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4	- 12	- 6	WA	NBR	11	- 17	- 4	WA	NBR	15	- 32	- 5,5	WA	NBR	18	- 38	- 7	WAS	NBR
5	- 9	- 2	WAO	NBR	11	- 22	- 7	VIA	FPM	15	- 32	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR
5	- 10	- 2	WAO	NBR	11	- 22	- 7	WA	NBR	15	- 32	- 10	WA	NBR	18	- 38	- 7	WAS	NBR
5	- 15	- 6	WA	NBR	11	- 30	- 7	WA	NBR	15	- 33	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
5	- 15	- 7	WA	NBR	11,11 - 25,4	- 6,35	WA	NBR	15	- 35	- 5	WA	NBR	18	- 38	- 7	WAS	NBR	
5	- 16	- 6	WA	NBR	12	- 16	- 3	WAO	NBR	15	- 35	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR
5	- 16	- 7	WA	NBR	12	- 16	- 3	WB	NBR	15	- 37	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
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6	- 15	- 6	WA	NBR	12	- 20	- 5	WB	NBR	15,87 - 25,40	- 6,35	WA	NBR	18	- 38	- 7	WAS	NBR	
6	- 16	- 5	WA	NBR	12	- 20	- 7	WA	NBR	15,87 - 28,57	- 7,93	WA	NBR	18	- 38	- 7	WAS	NBR	
6	- 16	- 7	WAS	NBR	12	- 21	- 4	WA	NBR	15,87 - 31,75	- 9,52	WA	NBR	18	- 38	- 7	WAS	NBR	
6	- 19	- 6	WA	NBR	12	- 22	- 4	VIA	NBR	15,87 - 34,92	- 7,93	WA	NBR	18	- 38	- 7	WAS	NBR	
6	- 22	- 7	WAS	NBR	12	- 22	- 4,5	WA	NBR	15,87 - 38,10	- 9,52	WA	NBR	18	- 38	- 7	WAS	NBR	
6	- 22	- 8	WAS	NBR	12	- 22	- 6	WA	NBR	16	- 21	- 3	WB	NBR	18	- 38	- 7	WAS	NBR
6,35	- 19,05	- 6,35	WA	NBR	12	- 22	- 6	WAS	NBR	16	- 22	- 3	WAO	NBR	18	- 38	- 7	WAS	NBR
7	- 14	- 5	WA	NBR	12	- 24	- 4,5	WA	NBR	16	- 22	- 4	WA	NBR	18	- 38	- 7	WAS	NBR
7	- 16	- 7	VIA	FPM	12	- 24	- 6	WA	NBR	16	- 22	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
7	- 16	- 7	WA	NBR	12	- 24	- 7	WAS	NBR	16	- 24	- 4	VIA	FPM	18	- 38	- 7	WAS	NBR
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7,93	- 22,22	- 6,35	WAS	NBR	12	- 25	- 5	WA	NBR	16	- 24	- 5	WA	NBR	18	- 38	- 7	WAS	NBR
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8	- 15	- 5	WA	NBR	12	- 28	- 7	WAS	NBR	16	- 26	- 5	WA	NBR	18	- 38	- 7	WAS	NBR
8	- 16	- 3	WAO	NBR	12	- 30	- 7	VIA	FPM	16	- 26	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
8	- 16	- 3	WAO	NBR	12	- 32	- 5	WA	NBR	16	- 28	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR
8	- 16	- 7	WAS	NBR	12	- 32	- 7	WA	NBR	16	- 30	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR
8	- 18	- 5	VIA	FPM	12,5	- 19,0	- 5,00	WA	NBR	16	- 30	- 10	WC	NBR	18	- 38	- 7	WAS	NBR
8	- 18	- 6	WA	NBR	12,5	- 20,0	- 5,00	WA	NBR	16	- 32	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR
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8	- 20	- 8	WA	NBR	12,7	- 25,4	- 6,35	WAS	NBR	16	- 35	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
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8	- 22	- 6	WA	NBR	12,7	- 28,57	- 7,93	WA	NBR	17	- 23	- 3	WAO	NBR	18	- 38	- 7	WAS	NBR
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9	- 26	- 7	WA	NBR	14	- 25	- 7	WA	NBR	17	- 34	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
9	- 30	- 7	WA	NBR	14	- 26	- 7	WAS	NBR	17	- 35	- 5	WA	NBR	18	- 38	- 7	WAS	NBR
9,52	- 17,46	- 3,56	WAO	NBR	14	- 27	- 7	VIA	FPM	17	- 35	- 10	VIA	FPM	18	- 38	- 7	WAS	NBR
9,52	- 19,05	- 6,35	WA	NBR	14	- 28	- 7	VIA	FPM	17	- 35	- 10	WB	NBR	18	- 38	- 7	WAS	NBR
9,52	- 22,22	- 6,35	WAS	NBR	14	- 28	- 7	WAS	NBR	17	- 38	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
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10	- 15	- 3	WBO	NBR	14	- 32	- 7	WA	NBR	17	- 42	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
10	- 16	- 4	WA	NBR	14	- 32	- 7	WA	NBR	17	- 47	- 7	WA	NBR	18	- 38	- 7	WAS	NBR
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10	- 22	- 8	WB	NBR	15	- 27	- 7	WA	NBR	18	- 32	- 7	VIAS	FPM	18	- 38	- 7	WAS	NBR
10	- 24	- 7	WBO	NBR	15	- 27	- 7	WA	NBR	18	- 32	- 7	VIAS	FPM	18	- 38	- 7	WAS	NBR
10	- 25	- 7	WAS	NBR	15	- 28	- 7	WA	NBR	18	- 35	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR
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10	- 26	- 7	WAS	NBR	15	- 30	- 7	VIA	FPM	18	- 38	- 7	WAS	NBR	18	- 38	- 7	WAS	NBR



28 - 52 - 7					38 - 80 - 10									
d	D	b	typ	materiál										
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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	
28,57- 41,27	- 7,93		WA	NBR	31,75- 57,15	- 9,52	WA	NBR	35	- 55	- 10	WAS	NBR	
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	
28,57- 50,80	- 12,7		WA	NBR	32	- 40	- 7	WA	NBR	35	- 58	- 10	WC	NBR
28,57- 52,38	- 9,52		WA	NBR	32	- 42	- 7	WA	NBR	35	- 60	- 10	WAS	NBR
28,57- 53,97	- 9,52		WA	NBR	32	- 44	- 8	WAS	NBR	35	- 62	- 8	VIA	FPM
28,57- 57,15	- 9,52		WA	NBR	32	- 45	- 7	WAS	NBR	35	- 62	- 8	WAS	NBR
28,57- 61,91	- 11,11		WAS	NBR	32	- 46	- 8	WAS	NBR	35	- 62	- 12	VIAS	FPM
29	- 38	- 4	WAO	NBR	32	- 47	- 7	VIA	FPM	35	- 65	- 10	WAS	NBR
29	- 40	- 8	WAS	NBR	32	- 48	- 5	WA	NBR	35	- 67	- 7	WA	NBR
29	- 41	- 6	WA	NBR	32	- 48	- 8	VIA	FPM	35	- 68	- 6	WA	NBR
29	- 42	- 7	WA	NBR	32	- 50	- 8	WA	NBR	35	- 68	- 10	WA	NBR
29	- 45	- 7	WA	NBR	32	- 50	- 10	WA	NBR	35	- 70	- 10	WB	NBR
29	- 47	- 10	WA	NBR	32	- 50	- 12	VIA	FPM	35	- 72	- 10	VIA	FPM
29	- 55	- 9	WA	NBR	32	- 51	- 8	WA	NBR	35	- 72	- 10	WA	NBR
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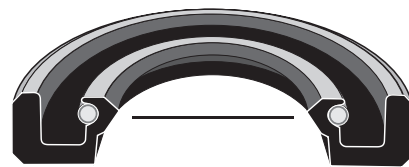
38 - 66 - 12

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42	- 65	- 12	WAS	NBR
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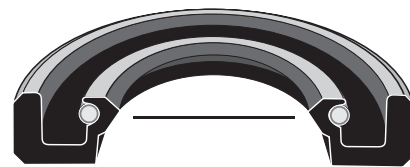
52 - 90 - 13

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44	- 54	- 4,5	WA	NBR
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90	- 160	- 12	WA	NBR	110	- 160	- 15	WA	NBR
92	- 120	- 13	WA	NBR	110	- 170	- 12	WAS	NBR
92,07-	111,12	11,11	WAS	NBR	110	- 200	- 13	WAS	NBR
92,07-	114,30	12,7	WA	NBR	111,12	136,52	12,7	WA	NBR
112	- 140	- 13	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	- 12,7	WAS	NBR	114,3-	139,7	- 9,52	WA	NBR
114,3-	139,7	- 9,52	WA	NBR	114,3-	146,05	12,7	WA	NBR
114,3-	146,05	12,7	WA	NBR	114,30	139,70	9,52	WA	NBR
114,30	139,70	9,52	WA	NBR	114,30	146,05	12,7	WA	NBR
114,30	146,05	12,7	WA	NBR	114,30	155,57	14,28	WAS	NBR
114,30	155,57	14,28	WAS	NBR	115	- 130	- 12	WA	NBR
115	- 130	- 12	WA	NBR	115	- 135	- 13	WB	NBR
115	- 135	- 13	WB	NBR	115	- 140	- 12	VIA	FPM
115	- 140	- 12	VIA	FPM	115	- 145	- 14	WA	NBR
115	- 145	- 14	WA	NBR	115	- 150	- 12	VIA	FPM
115	- 150	- 12	VIA	FPM	115	- 150	- 13	WA	NBR
115	- 150	- 13	WA	NBR	115	- 150	- 15	WAS	NBR
115	- 150	- 15	WAS	NBR	115	- 160	- 15	WA	NBR
115	- 160	- 15	WA	NBR	115	- 165	- 15	WAS	NBR
115	- 165	- 15	WAS	NBR	117,47	142,87	12,7	WA	NBR
117,47	142,87	12,7	WA	NBR	118	- 136	- 13	WB	NBR
118	- 136	- 13	WB	NBR	118	- 140	- 13	WA	NBR
118	- 140	- 13	WA	NBR	120	- 140	- 10	WA	NBR
120	- 140	- 10	WA	NBR	120	- 140	- 13	WA	NBR
120	- 140	- 13	WA	NBR	120	- 140	- 14	WAS	NBR
120	- 140	- 14	WAS	NBR	120	- 145	- 12	WA	NBR
120	- 145	- 12	WA	NBR	120	- 150	- 12	VIAS	FPM
120	- 150	- 12	VIAS	FPM	120	- 150	- 12	WAS	NBR
120	- 150	- 12	WAS	NBR	120	- 150	- 15	WAS	NBR
120	- 150	- 15	WAS	NBR	120	- 155	- 15	WAS	NBR
120	- 155	- 15	WAS	NBR	120	- 170	- 15	WC	NBR
120	- 170	- 15	WC	NBR	120,65	146,05	12,7		NBR
120,65	146,05	12,7		NBR	122	- 150	- 15	WA	NBR
122	- 150	- 15	WA	NBR	125	- 140	- 10	WA	NBR
125	- 140	- 10	WA	NBR	125	- 143	- 13	WAS	NBR
125	- 143	- 13	WAS	NBR	125	- 145	- 7,5	WA	NBR
125	- 145	- 7,5	WA	NBR	125	- 150	- 12	VIA	FPM
125	- 150	- 12	VIA	FPM	125	- 150	- 13	WC	NBR
125	- 150	- 13	WC	NBR	125	- 155	- 12	WA	NBR
125	- 155	- 12	WA	NBR	125	- 160	- 15	WC	NBR
125	- 160	- 15	WC	NBR	125	- 170	- 15	WC	NBR
125	- 170	- 15	WC	NBR	127	- 146,05	12,70	WA	NBR
127	- 146,05	12,70	WA	NBR	127	- 150	- 13	WA	NBR
127	- 150	- 13	WA	NBR	127	- 152,4	- 12,70	WAS	NBR
127	- 152,4	- 12,70	WAS	NBR	127	- 158,75	15,87	WC	NBR
127	- 158,75	15,87	WC	NBR	127	- 165,1	- 12,7	WAS	NBR
127	- 165,1	- 12,7	WAS	NBR	127	- 170	- 14	WA	NBR
127	- 170	- 14	WA	NBR	128	- 146	- 13,5	WAS	NBR
128	- 146	- 13,5	WAS	NBR	128	- 150	- 13	WA	NBR
128	- 150	- 13	WA	NBR	130	- 150	- 10	WA	NBR
130	- 150	- 10	WA	NBR	130	- 150	- 15	WAS	NBR
130	- 150	- 15	WAS	NBR	130	- 155	- 10	WC	NBR
130	- 155	- 10	WC	NBR	130	- 160	- 12	VIA	FPM
130	- 160	- 12	VIA	FPM	130	- 160	- 12	WA	NBR
130	- 160	- 12	WA	NBR	130	- 160	- 12	WA	NBR
130	- 160	- 12	WA	NBR	130	- 160	- 12	WAS	NBR
130	- 160	- 12	WAS	NBR	130	- 160	- 13	WA	NBR
130	- 160	- 13	WA	NBR	130	- 160	- 14	WA	NBR
130	- 160	- 14	WA	NBR	130	- 160	- 15	VIA	FPM
130	- 160	- 15	VIA	FPM	130	- 162	- 9	WAS	NBR
130	- 162	- 9	WAS	NBR	130	- 165	- 15	WA	NBR
130	- 165	- 15	WA	NBR	130	- 170	- 15	WA	NBR
130	- 170	- 15	WA	NBR	130	- 180	- 15	WC	NBR
130	- 180	- 15	WC	NBR	130,17-	155,57	- 12,7	WA	NBR
130,17-	155,57	- 12,7	WA	NBR	132	- 160	- 13	WC	NBR
132	- 160	- 13	WC	NBR	133,35-	158,75	- 12,7	WA	NBR
133,35-	158,75	- 12,7	WA	NBR	133,35-	165,1	- 14,28	WA	NBR
133,35-	165,1	- 14,28	WA	NBR	135	- 155	- 12	WA	NBR
135	- 155	- 12	WA	NBR	135	- 160	- 12	WA	NBR
135	- 160	- 12	WA	NBR	135	- 162	- 13	WBS	NBR
135	- 162	- 13	WBS	NBR	135	- 165	- 12	WA	NBR
135	- 165	- 12	WA	NBR	135	- 165	- 12	WAS	NBR
135	- 165	- 12	WAS	NBR	135	- 165	- 15	WAS	NBR
135	- 165	- 15	WAS	NBR	135	- 170	- 12	VIA	FPM
135	- 170	- 12	VIA	FPM	135	- 170	- 15	WA	NBR
135	- 170	- 15	WA	NBR	135	- 180	- 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

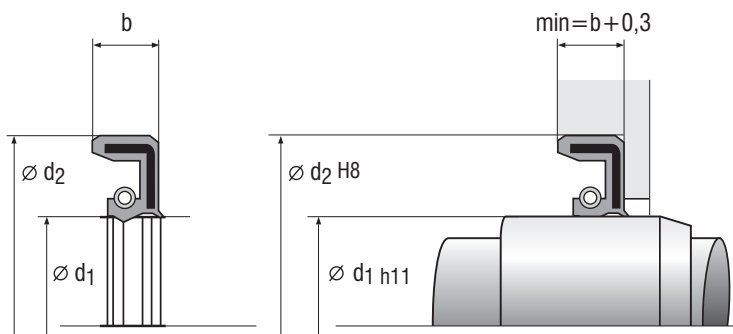
500	550	25	WA	NBR
530	565	20	WC	NBR
540	590	20	VIAS	FPM
546	596,9	19,05	WC	NBR
560	590	20	VIAS	FPM
600	640	20	WC	NBR

Tlaková gufera

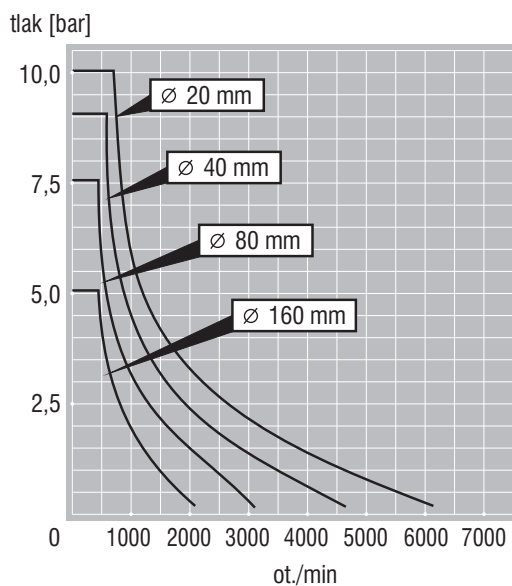
Výrobce: Simrit

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