

Simmerring Modular Sealing Solution 1 (MSS 1)

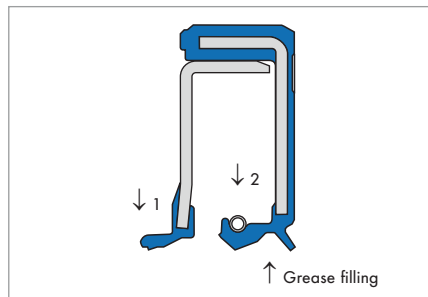


Fig. 1 Simmerring MSS 1 NBR/FKM

Product description

- Outer casing: elastomer (smooth)
- Spring-loaded sealing lip and sealing lip with helix edge without spring
- Additional dust lip
- Modern sealing lip profile
- Friction-optimised primary seal lip 1 made from fluoro rubber 75 FKM 585
- Secondary seal lip with additional dust lip 2
- Grease filling with special lubricant Klüber Petamo GHY 133 N.

Product advantages

- Broad range of applications, for example in industrial gearboxes
- Reliable sealing of the housing bore, even with increased roughness of the bore, thermal expansion and split housings, thus a sealing of low viscosity and gaseous media is also possible
- Very long service life and reliability, especially when subject to strong external dirt and/or contamination (metal abrasion, cast sand) of the lubricant
- Optimal for vertical unit application
- Very narrow axial design
- Reliable sealing of the housing bore etc.

Application

- Industrial gearboxes.

Material

Acrylonitrile-butadiene rubber/Fluoro elastomer

Code	72 NBR 902/75 FKM 585
Hardness	72 Shore A/75 Shore A

Fluoro elastomer/Fluoro elastomer

Code	75 FKM 585/75 FKM 585
Hardness	75 Shore A/75 Shore A

Metal insert	Unalloyed steel DIN EN 10027-1
Spring	Spring steel DIN EN 10270-1

Operating conditions

Materials combination	NBR/FKM	FKM/FKM
T	-25 ... +100 °C	-25 ... +160° C
v	0 ... 6 m/s	0 ... 6 m/s
P	0 ... 0,05 MPa/0,5 bar	0 ... 0,05 MPa/0,5 bar

Max. permissible values depend on the other operating conditions.

Fitting & installation

Shaft

Tolerance	ISO h 11
Runout	IT 8
Roughness	$R_a = 0,2 \dots 0,8 \mu\text{m}$
	$R_z = 1,0 \dots 5,0 \mu\text{m}$
	$R_{max} = <6,3 \mu\text{m}$
Hardness	45 ... 60 HRC
Finish	No lead; preferably plunge ground

Housing bore

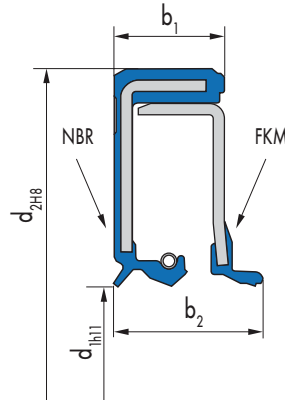
Tolerance	ISO H8
Roughness	$R_z = 10 \dots 25 \mu\text{m}$

Careful fitting according to DIN 3760 is a prerequisite for the correct function of the seal → Technical Manual.

Range of dimensions for shafts-Ø d₁

Simmerring MSS 1	35 ... 145 mm
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Artikelliste



d ₁	d ₂	b ₁	b ₂	Outer surface	Pressure	Material	Article No.	
20	42	6	8	smooth	0,05	75 FKM 585	527075	●
20	52	6	8	smooth	0,05	75 FKM 585	531002	●
25	47	10	13,5	smooth	0,05	75 FKM 585	527074	●
30	52	6	8	smooth	0,05	72 NBR 902	528998	●
30	52	6	8	smooth	0,05	75 FKM 585	49011594	●
35	62	8	10	smooth	0,05	72 NBR 902	525414	●
35	62	8	10	smooth	0,05	75 FKM 585	525445	●
40	68	10		smooth	0,05	72 NBR 902	49028784	●
40	80	10	13,5	smooth	0,05	72 NBR 902	525350	●
45	75	8	10	smooth	0,05	72 NBR 902	49005160	●
45	85	10	13,5	smooth	0,05	72 NBR 902	525382	●
47	65	10	13,5	smooth	0,05	72 NBR 902	525416	●
47	90	10	13,5	smooth	0,05	72 NBR 902	525417	●
50	65	10	13,5	smooth	0,05	72 NBR 902	525357	●
50	80	10	13,5	smooth	0,05	72 NBR 902	525353	●
50	90	10	13,5	smooth	0,05	72 NBR 902	525358	●
52	72	10	13,5	smooth	0,05	72 NBR 902	525379	●
52	100	10	13,5	smooth	0,05	72 NBR 902	525389	●
55	72	10	13,5	smooth	0,05	72 NBR 902	525360	●
55	72	10	13,5	smooth	0,05	75 FKM 585	525365	●
55	90	10	13,5	smooth	0,05	72 NBR 902	525359	●
55	90	10	13,5	smooth	0,05	75 FKM 585	525364	○
55	100	10	13,5	smooth	0,05	72 NBR 902	525393	●
55	100	10	13,5	smooth	0,05	75 FKM 585	525425	○
60	110	12	16,5	smooth	0,05	72 NBR 902	525366	●
60	110	12	16,5	smooth	0,05	75 FKM 585	525369	●
62	90	12	16,5	smooth	0,05	72 NBR 902	525384	●
62	90	12	16,5	smooth	0,05	75 FKM 585	525422	●
62	120	12	16,5	smooth	0,05	72 NBR 902	525400	●
65	85	12	16,5	smooth	0,05	72 NBR 902	525383	●
65	100	12	16,5	smooth	0,05	72 NBR 902	525394	●
65	100	12	16,5	smooth	0,05	75 FKM 585	525426	●
65	120	12	16,5	smooth	0,05	72 NBR 902	525367	●
65	120	12	16,5	smooth	0,05	75 FKM 585	525370	●
65	140	12	16,5	smooth	0,05	72 NBR 902	525368	●

● Available from stock ○ On request: Tool is available, delivery at short notice

d ₁	d ₂	b ₁	b ₂	Outer surface	Pressure	Material	Article No.	
70	90	12	16,5	smooth	0,05	72 NBR 902	525376	●
70	110	12	16,5	smooth	0,05	72 NBR 902	525375	●
72	95	12	16,5	smooth	0,05	72 NBR 902	525386	●
72	95	12	16,5	smooth	0,05	75 FKM 585	525423	●
72	140	12	16,5	smooth	0,05	72 NBR 902	525403	●
72	140	12	16,5	smooth	0,05	75 FKM 585	525432	●
75	130	12	16,5	smooth	0,05	72 NBR 902	525377	●
80	100	12	16,5	smooth	0,05	72 NBR 902	525395	●
80	100	12	16,5	smooth	0,05	75 FKM 585	525427	●
80	125	12	16,5	smooth	0,05	72 NBR 902	525402	●
82	120	13	19,5	smooth	0,05	72 NBR 902	525401	●
82	160	13	19,5	smooth	0,05	72 NBR 902	525407	●
82	160	13	19,5	smooth	0,05	75 FKM 585	525437	○
85	110	12	18,5	smooth	0,05	72 NBR 902	525387	●
85	140	12	18,5	smooth	0,05	72 NBR 902	525385	●
85	140	12	18,5	smooth	0,05	75 FKM 585	525390	●
95	125	13	19,5	smooth	0,05	72 NBR 902	525397	●
95	145	13	19,5	smooth	0,05	72 NBR 902	525405	●
95	145	13	19,5	smooth	0,05	75 FKM 585	525434	○
95	170	13	19,5	smooth	0,05	72 NBR 902	525396	○
108	170	15	22,5	smooth	0,05	72 NBR 902	525409	●
120	150	15	22,5	smooth	0,05	72 NBR 902	525406	●
120	150	15	22,5	smooth	0,05	75 FKM 585	525435	●
125	160	15	22,5	smooth	0,05	72 NBR 902	525408	●
125	200	15	22,5	smooth	0,05	72 NBR 902	525412	●
145	230	17	25,5	smooth	0,05	72 NBR 902	525413	●
145	230	17	25,5	smooth	0,05	75 FKM 585	525444	○

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