

Simmerring Combi Seal SF6

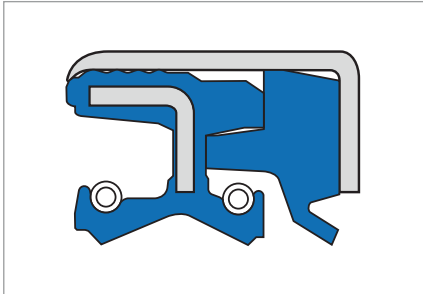


Fig. 1 Simmerring Combi Seal SF6

Product description

- Design: special types, on enquiry
- Combination of a Simmerring and an additional seal against dirt from the outside in one housing
- Spring-loaded sealing lip
- Additional dust lip
- Primarily for usage in all applications with high level of soiling, e.g., in axles for off-road vehicles
- Use preferably instead of the Simmerring Cassette Seal in case of superimposed rotational and translation movements.

Product advantages

- Long service life
- High resistance to dirt ingress due to the optimal positioning of sealing lip and dust lip.

Performance in relation to dirt from the outside

- High resistance to dirt from the outside. Suitable for protection against sludge.

Application

- Agricultural machinery
- Drives for agricultural vehicles and in general industry
- For rotating, sometimes running shafts in wet /moist application areas.

Material

Acrylonitrile-butadiene rubber

Code	75 NBR 106200
Colour	Black
Hardness	75 Shore A

Fluoro elastomer

Code	75 FKM 595
Colour	Red brown
Hardness	75 Shore A

Metal insert	Unalloyed steel DIN 1624 – EN10139	
Spring	Spring steel 17223	
Dirt wiper	Polyurethane (AU)	

Operating conditions

Materials combination	NBR/AU	FKM/AU
T	to +80 °C	to +100 °C
v	to 4 m/s	to 6 m/s
p	max. 0,05 MPa/0,5 bar	max. 0,05 MPa/0,5 bar

Fitting & installation

Shaft

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

Housing bore

Tolerance	ISO H8
Roughness	$R_z = 10 \dots 16 \mu\text{m}$

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

The use of sealing material on the outer diameter is recommended for the fitting.

Further information on enquiry.

Range of dimensions for shafts-Ø D₁

Simmerring Combi Seal SF6	30 ... 130 mm
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Article list

D ₁	D ₂	b	Material	Article No.	
30	44	14	72 NBR 902	12013519	○
35	52	16	72 NBR 902	12013466	○
35	60	18,5	72 NBR 902	12014167	○
40	55	15,5	72 NBR 902	12018848	○
40	60	18,5	72 NBR 902	12012107	○
40	65	18,5	72 NBR 902	12013226	○
42	62	21,5	72 NBR 902	12016507	○
45	65	18,5	72 NBR 902	12012377	○
47	65	16,5	72 NBR 902	12015734	○
48	65	16,5	75 FKM 595	12017310	○
48	74	18,5	72 NBR 902	12017349	○
50	72	16,5	75 NBR 106200	12014048	○
55	82	16,5	75 NBR 106200	12014159	○
56	75	16,5	72 NBR 902	12012826	○
56	80	16	75 NBR 106200	12018868	○
58	80	16,5	72 NBR 902	12012468	○
58	82	16	75 FKM 595	12017237	○
65	92	18	72 NBR 902	12013465	○
70	90	16,5	75 NBR 106200	12013784	○
70	95	15	72 NBR 902	12012318	○
80	100	18	72 NBR 902	12014976	○
130	154	18	72 NBR 902	12015132	○

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