

Simmerring Combi Seal

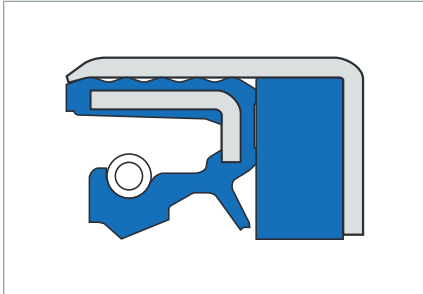


Fig. 1 Simmerring Combi Seal

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 dry dirt.

Application

- Agricultural machinery
- Drives for agricultural vehicles and in general industry
- Drives for rotating, sometimes running shafts in dry 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
T	to +80 °C
v	to 5 m/s
P	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.

Further information on enquiry.

Range of dimensions for shafts $\varnothing D_1$

Simmerring Combi Seal	30 ... 220 mm
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Article list

D ₁	D ₂	b	Material	Article No.	
30	44	11	72 NBR 902	12001879	D
35	49	11	72 NBR 902	12001880	D
35	50	10	72 NBR 902	12001881	D
35	52	10	72 NBR 902	12011716	D
35	52	16	72 NBR 902	12001882	D
35	62	12	72 NBR 902	12012786	D
35	72	12	72 NBR 902	12001883	D
40	55	10	72 NBR 902	12001886	D
40	58	10	72 NBR 902	12001887	D
40	62	10	72 NBR 902	12011715	D
42	62	14	72 NBR 902	12001889	D
45	62	11	72 NBR 902	12012296	D
45	65	12	72 NBR 902	12011969	D
48	65	11	72 NBR 902	12011991	D
48	74	13	72 NBR 902	12001898	D
50	75	12	72 NBR 902	12012503	D
55	72	12	75 NBR 904	12011794	D
55	80	11	72 NBR 902	12013176	D
57	72	11	72 NBR 902	12013172	D
60	80	12	72 NBR 902	12012930	D
62	80	11	72 NBR 902	12013173	D
65	92	14	72 NBR 902	12001903	D
65	98	15	72 NBR 902	12011697	D
68	85	12	72 NBR 902	12013339	D
74	91	12	72 NBR 902	12013338	D
75	102	14	72 NBR 902	12001907	D
80	110	16	72 NBR 902	12001908	D
85	110	16	72 NBR 902	12001909	D
90	120	13	72 NBR 902	12001910	D
90	122	17	72 NBR 902	12001911	D
95	120	13	72 NBR 902	12012399	D
100	130	16	72 NBR 902	12001912	D
105	125	16	72 NBR 902	12001913	D
105	130	12	72 NBR 902	12011717	D
105	140	16	72 NBR 902	12001914	D
110	130	12	72 NBR 902	12013174	D
110	130	16	72 NBR 902	12015364	D
110	150	16	72 NBR 902	12001916	D
112	140	13,2	72 NBR 902	12001917	D
120	150	15	72 NBR 902	12001918	D
130	160	16	72 NBR 902	12001919	D
130	170	16	72 NBR 902	12001920	D
136	165,5	16	68 ACM 362	12013067	D
145	170	16	72 NBR 902	12001922	D
150	170	16	72 NBR 902	12001923	D
155	176	16	72 NBR 902	12001924	D
165	190	17	72 NBR 902	12001925	D
170	190	15	72 NBR 902	12013074	D

B Available from stock D On request: Tool is available, delivery at short notice

D ₁	D ₂	b	Material	Article No.	
170	205	17	72 NBR 902	12012053	D
180	205	17	72 NBR 902	12011690	D
190	215	17	72 NBR 902	12015590	D
190	220	20	72 NBR 902	12001926	D
220	250	20	72 NBR 902	12001928	D

B Available from stock D On request: Tool is available, delivery at short notice

