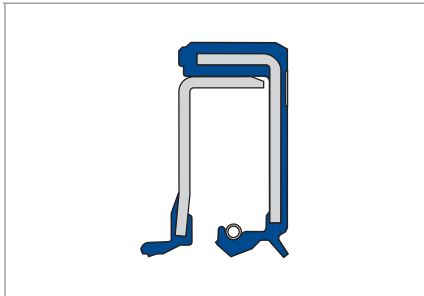


SIMMERRING MODULAR SEALING SOLUTION 1 NBR/FKM (MSS 1)



PRODUCT DESCRIPTION

The standard Simmerring BA...U...SL as basic module combined with an inner buffer seal with sine wave-shaped sealing lip as one-piece solution, e.g., for drive technology applications. A proven type with high resistance to soiling and metal abrasion in the oil chamber.

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.

PRODUCT PROPERTIES

- 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

APPLICATION

- Industrial gearboxes

MATERIAL

Material	Acrylonitrile-butadiene rubber/Fluoro elastomer
Code	72 NBR 902/75 FKM 585
Hardness	72/75 Shore A

Components

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

Alternatively in stainless steel on enquiry.

OPERATING CONDITIONS

T	-25 ... +100 °C
v	≤6 m/s
p	≤0,05 MPa

Max. permissible values depend on the other operating conditions.

FITTING & INSTALLATION

Shaft

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

Housing bore

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

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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