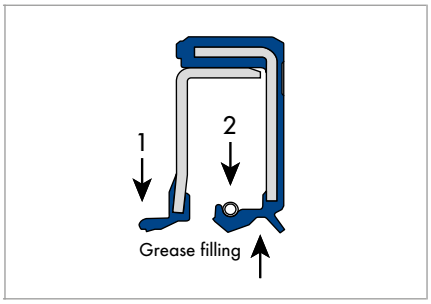
SIMMERRING MSS 1 (MODULAR SEALING SOLUTION)



Simmerring 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 sinus wave 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 made from fluoro rubber 75 FKM 585 or from acrylonitrile-butadiene rubber 72 NBR 902
- Grease filling with special lubricant Klüber Petamo GHY 133 N

APPLICATION

- Industrial gearboxes

MATERIAL

Material	Fluoro elastomer/Fluoro elastomer
Code	75 FKM 585/75 FKM 585
Hardness	75/75 Shore A

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

Components

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

OPERATING CONDITIONS

T	NBR: –40 ... +100 °C; FKM: –25 ... +160 °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 ... 0,8 µm
	R_z = 1,0... 5,0 µm
	R_{max} ≤ 6,3 µm
Hardness	45 ... 60 HRC
Finish	No lead; preferably plunge ground

Housing bore

Tolerance	ISO H8
Roughness metal outer surface OD	R_z = 10 ... 25 µm

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