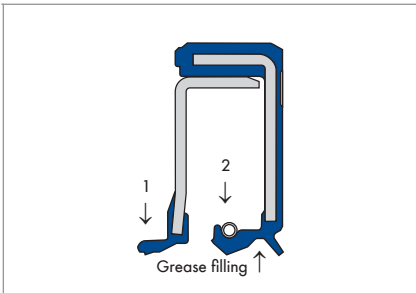


## SIMMERRING MSS 1



### 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 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

<b>Material</b>	Fluoro elastomer/Fluoro elastomer
<b>Code</b>	75 FKM 585/75 FKM 585
<b>Hardness</b>	75/75 Shore A

### Components

<b>Metal insert</b>	Unalloyed steel DIN EN 10027-1
<b>Spring</b>	Spring steel DIN EN 10270-1

### OPERATING CONDITIONS

<b>T</b>	-25 ... +160 °C
<b>v</b>	≤6 m/s
<b>p</b>	≤0,05 MPa

Max. permissible values depend on the other operating conditions.

### FITTING & INSTALLATION

#### Shaft

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

#### Housing bore

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

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

<b>Simmerring MSS 1</b>	35 ... 145 mm
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