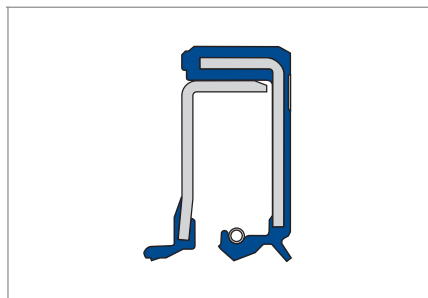


# SIMMERRING MODULAR SEALING SOLUTION 1 NBR/FKM (MSS 1)



## 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 | $R_a = 0,2 \dots 0,8 \mu\text{m}$     |
|           | $R_z = 1,0 \dots 5,0 \mu\text{m}$     |
|           | $R_{\text{max}} \leq 6,3 \mu\text{m}$ |
| 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 |
|------------------|---------------|