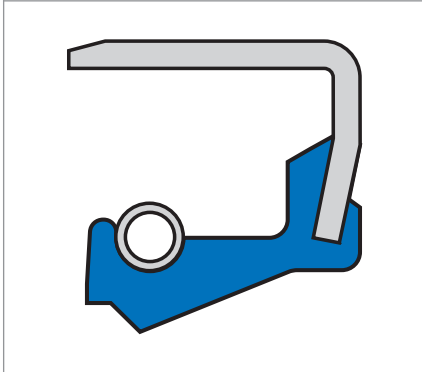
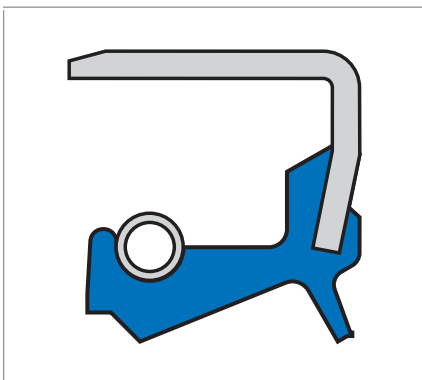


Simmerring B1.../SL

Simmerring B1FUD, B1FUDSL, B1U, B1USL, B1, B1SL



Simmerring B1FUD



Simmerring B1FUDSL

Product description

Standard types with open outer metal sleeve. With or without dust lip (SL) to protect against exterior soiling

Product advantages

- Broad range of applications in every sector of industry
- Metal housing for especially firm and precise seating in the bore. (Note: limited static sealing on the outer casing for low viscosity and gaseous media)
- Additional dust lip as additional seal against moderate to medium dust and dirt ingress from outside (B1FUDSL). (Note: can lead to temperature increase from frictional heat)

Product properties

- Outer casing: metal, machined
- Spring-loaded sealing lip
- Additional dust lip (B1...SL)
- Sealing lip profile, sealing lip machined on the front face
- Sealing lip profile, finished sealing lip (B1FUD/B1FUDSL)

Application

- Axles for agricultural and construction machinery
- Power take-off gears in agricultural and construction machinery transmissions and axles
- Machine tools

Material

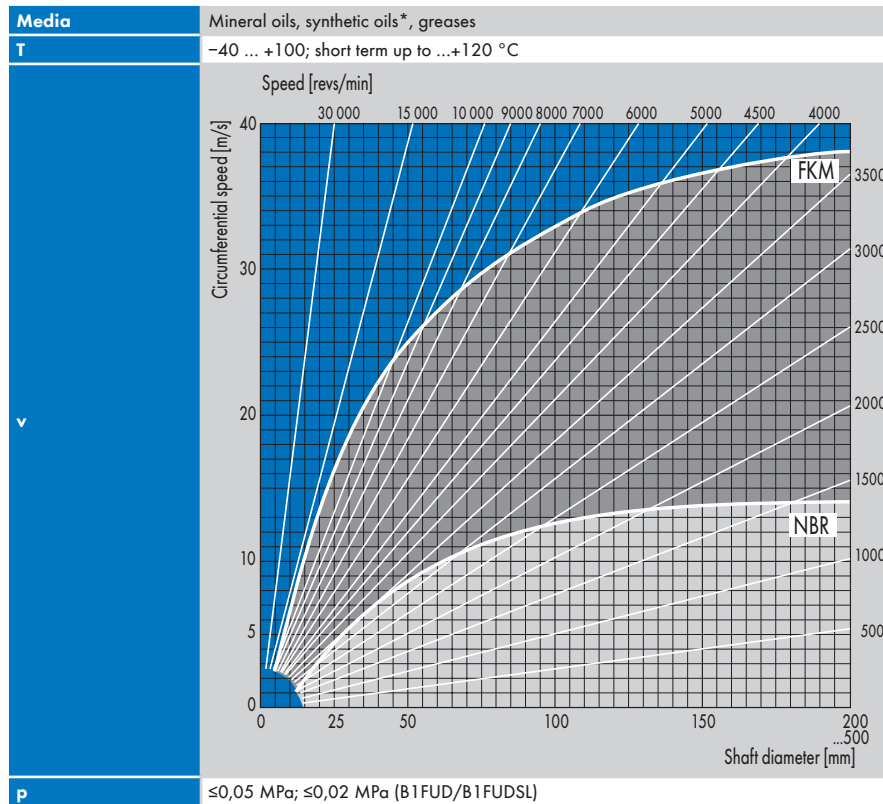
Material	Acrylonitrile-butadiene rubber
Code	72 NBR 902
Colour	Blue
Hardness	72 Shore A

75 FKM 585 and 75 FKM 595 on enquiry.

Components

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

Operating conditions



Permissible circumferential speed for Simmerrings made from the materials NBR (72 NBR 902) and FKM (75 FKM 585) for the sealing of motor oil SAE 20. Use Simmerring® with SL (dust lip): $v = \max. 8 \text{ m/s}$.

* With synthetic oils (polyalkylene glycols/polyalphaolefins, → Technical Manual synthetic lubricants) it is to be noted that the maximum operating temperature of 80 °C must not be exceeded.

Max. permissible values depend on the other operating conditions.

Fitting & installation

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

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	$R_z = 6,3 \dots 16 \mu\text{m}$

Range of dimensions for shafts-Ø d1

Simmerring B1...	5 ... 500 mm
Simmerring B1...SL	12 ... 290 mm