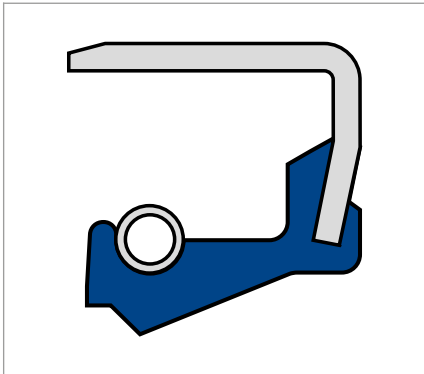
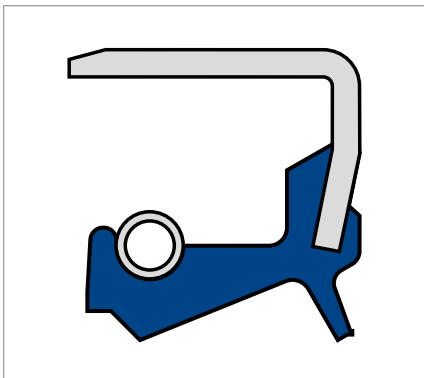


SIMMERRING B1.../SL



Simmerring B1...



Simmerring B1...SL

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 (B1...SL). (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

APPLICATION

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

MATERIAL

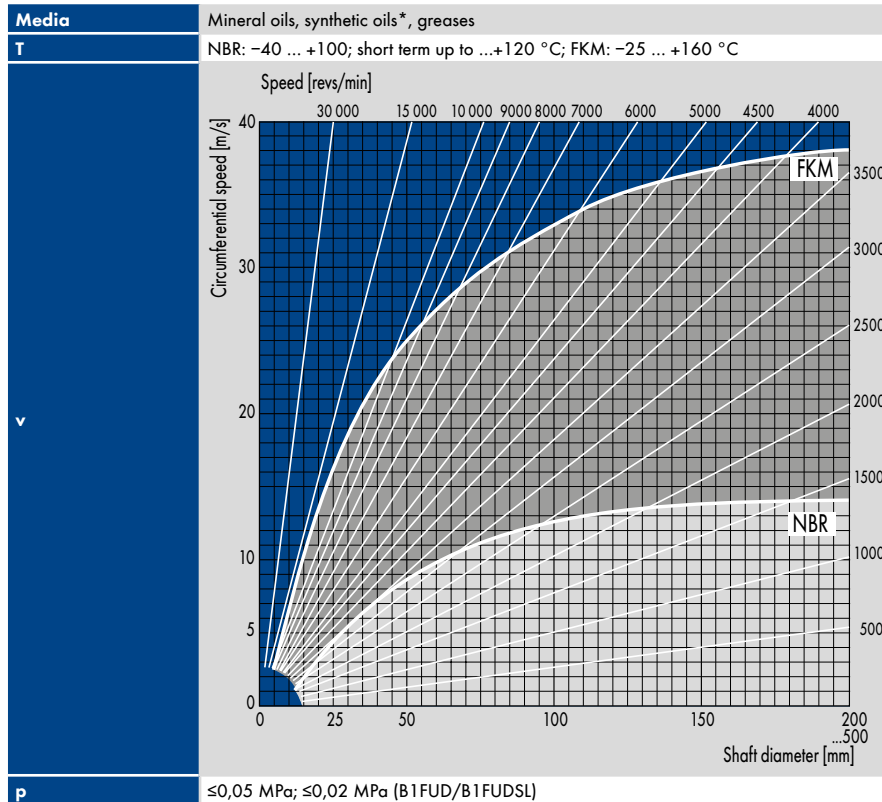
Material	Acrylonitrile-butadiene rubber
Code	72 NBR 902
Colour	Blue
Hardness	72 Shore A

Material	Fluoro rubber
Code	75 FKM 585
Colour	Brown
Hardness	75 Shore A

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 for NBR materials must not exceeded 80 °C.

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