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Radial shaft seal Simmerring® BASL

DESCRIPTION

- Standard design according to DIN 3760
- With tension spring
- Rubberized outer jacket
- With protective lip

FUNCTION

- Dynamic sealing of rotating shafts, independent of direction of rotation
- Good static seal between sealing lip and shaft at standstill
- Rubberized outer jacket ensures tight fit and seal to housing bore
- Self-retaining
- Protective lip against dirt accumulation from outside
- Stronger friction can lead to temperature increase

PRODUCT ADVANTAGES

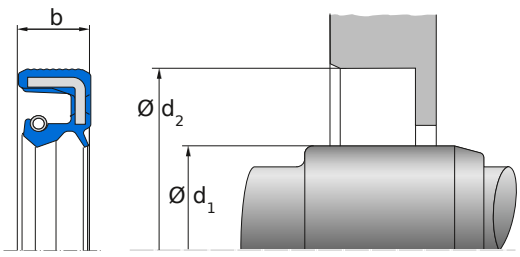
- Very good static sealing effect with low-viscosity or gaseous media.
- Compensation of thermal expansion e.g. in light metal housings, very good sealing effect with greater roughness and split housings
- Protection against moderate to medium dust and dirt accumulation from outside
- Highest quality
- Longest service life
- Highest functional reliability

APPLICATIONS

- Axles (with moderate dirt exposure)
- Power tools
- Industrial gearboxes
- Agricultural and construction machinery gearboxes

APPLICATION LIMITS

- Please follow the QR code or hyperlink to the technical manual to obtain further information and instructions.



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SEALING TECHNOLOGIES

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CONFORMITY AND CERTIFICATES

- Please consult the material data sheet valid for the respective material for current information on approvals and certificates, as this information depends on the compound and cannot be listed exhaustively here.

DESIGN GUIDELINE

- Please refer to the technical manual for design
- Please follow the QR code or hyperlink to the technical manual to obtain further information and instructions.

INSTALLATION GUIDELINE

- The prerequisite for perfect function of the seal is careful installation in accordance with the technical manual.
- Recommendation: Design the installation space so that axial support in the housing
- Please refer to the technical manual for further installation instructions.
- Please follow the QR code or hyperlink to the technical manual to obtain further information and instructions.

STORAGE ADVISE

- Storage temperature <25°C
- No direct heat sources
- No direct sunlight
- No condensation in the storage room
- No exposure to ozone or ionizing radiation
- Recommendations based on the revision of ISO 2230 dated 16.09.1992

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Permissible low temperature [°C]

72 NBR 902	75 FKM 585	75 FKM 595
-40*	-30*	-30*

* The low-temperature limit depends on shaft runout.

Temperature [°C]

Medium	72 NBR 902	75 FKM 585	75 FKM 595
Engine oils	100	150	150
Gear oils	100	150	150
Hypoid gear oils	80	140	140
ATF oils	100	150	150
Greases	100	150	150
HLP according to DIN 51524 part 2	100	150	150
HLVP according to DIN 51524 part 3	100	150	150
Heating oil EL and L	90	(c)	(c)
Air	100	200	200
Group HFD*	(c)	150	150
Polyalkylene glycols (PAG)	(a)	(a)	(a)
Polyalphaolefins (PAO)	(a)	(a)	(a)
HETG rapeseed oil**	(b)	(d)	(d)
HEES – synthetic esters	(b)	(d)	(d)
HEPG – polyglycols***	(b)	(d)	(d)
Group HFA***	(b)	(b)	(b)

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Temperature [°C]

Medium	72 NBR 902	75 FKM 585	75 FKM 595
Group HFB***	(b)	(b)	(b)
Group HFC***	(c)	(c)	(c)
Brake fluid DOT 3 / DOT 4	(c)	(c)	(c)
Water***	(c)	(b)	(b)
Washing solution***	(c)	(b)	(b)

a = When using FKM materials in synthetic lubricants (PAG and PAO), the maximum operating temperature must be determined by testing or a system trial.

b = conditionally resistant

c = not resistant

d = resistant, but generally not used for these media

* Resistance depends on the HFD type

** Operating limits are defined by the fluid

*** Additional lubrication recommended

Temperature range at the sealing lip [°C]

72 NBR 902	75 FKM 585	75 FKM 595
-40...100	-30...200	-30...200

The values given are based on a limited number of tests on standard test specimens (2 mm sample plates) from laboratory production. The data determined from finished parts may deviate from the above values depending on the manufacturing process and the part geometry.

The information provided herein is based on laboratory tests and on data sources deemed reliable. It constitutes general, non-binding guideline values and does not represent any guarantee of specific properties or suitability for a particular purpose. The suitability of a product for a specific application depends on the actual operating conditions and a variety of factors. Full testing and performance evaluation of the final product are the responsibility of the user. Freudenberg FST GmbH | www.fst.com