

Simmerring BA.../SL

Simmerring BAUX2, BAUSLX2, BAFUDX7, BAFUDSLX7, BA, BASL, BAU, BAUSL



Simmerring BA ...



Simmerring BA ...SL

Product properties

- Outer casing: elastomer (smooth or grooved = X7)
- Spring-loaded sealing lip
- Additional dust lip (BA...SL)
- Sealing lip profile, sealing lip machined on the front face (BAUX2, BAUSLX2 = preferred type)
- Sealing lip profile, finished sealing lip (BAFUDX7/BAFUDSLX7)

Application

- Axles (when subject to moderate dirt)
- Power tools
- Industrial gearboxes

Material

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

Components

| | |
|--------------|--------------------------|
| Metal insert | Unalloyed steel DIN 1624 |
| Spring | Spring steel DIN 17223 |

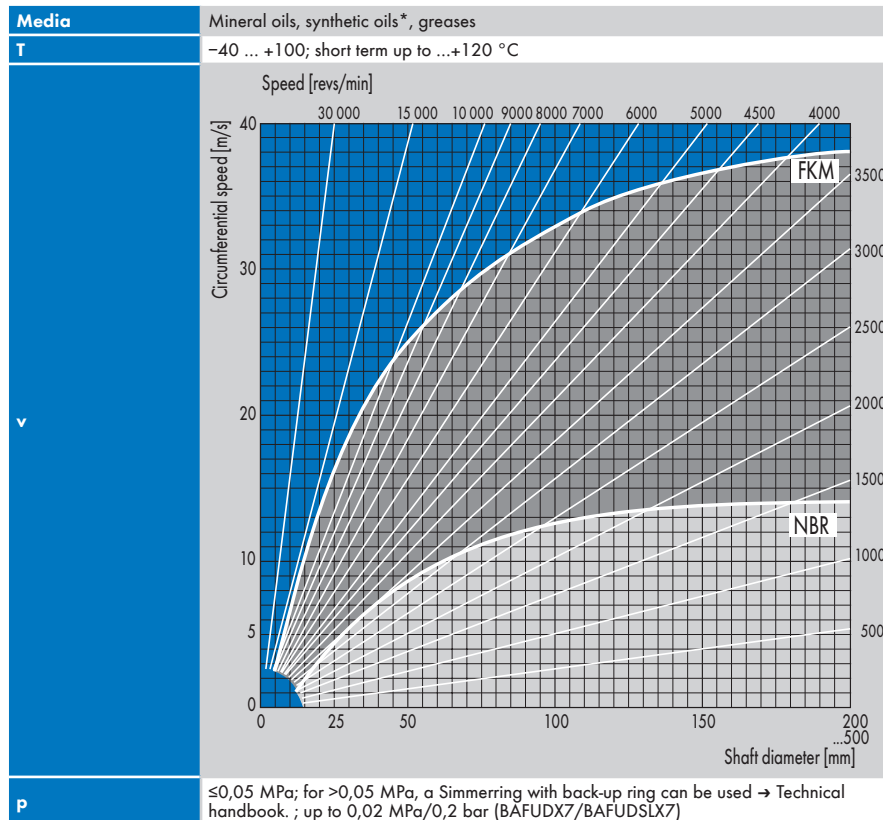
Product description

Standard types according to DIN 3760, with outer elastomer sleeve, with and without additional dust lip (SL) to protect against light to medium levels of exterior soiling. Available in various designs and materials.

Product advantages

- Broad range of applications in every sector of industry
- 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 also possible
- Additional dust lip as additional seal against moderate and medium dust and dirt ingress from outside (BA...SL).
(Note: can lead to temperature increase from frictional heat)

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 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 | $R_z = 10 \dots 25 \mu\text{m}$ |

Range of dimensions for shafts-Ø d1

| | |
|---------------------------|--------------|
| Simmerring BA... | 4 ... 600 mm |
| Simmerring BA...SL | 8 ... 300 mm |