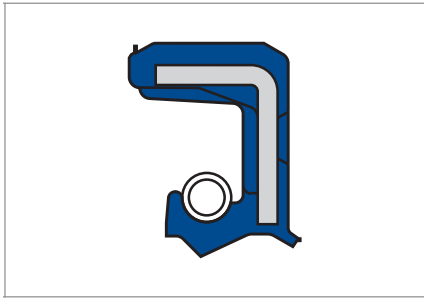


## SIMMERRING BABSL (NBR)



### MATERIAL

<b>Material</b>	Acrylonitrile-butadiene rubber
<b>Code</b>	72 NBR 902
<b>Colour</b>	Blue
<b>Hardness</b>	75 Shore A

### Components

<b>Metal insert</b>	Unalloyed steel DIN EN 10027-1
<b>Spring</b>	Spring steel DIN EN 10270-1

### PRODUCT DESCRIPTION

Pressure-resistant type for use without back-up ring in pressurised units such as hydraulic pumps and motors as well as hydrodynamic couplings. With additional dust lip to protect against exterior soiling.

### PRODUCT ADVANTAGES

- Used preferably in pressurised units
- Reliable sealing of the housing bore, even with increased roughness of the bore, thermal expansion and split housings
- Advantages when sealing low viscosity and gaseous media
- Additional dust lip as additional seal against moderate to medium dust and dirt ingress from outside
- Small axial dimensions (Note: can lead to temperature increase from frictional heat)

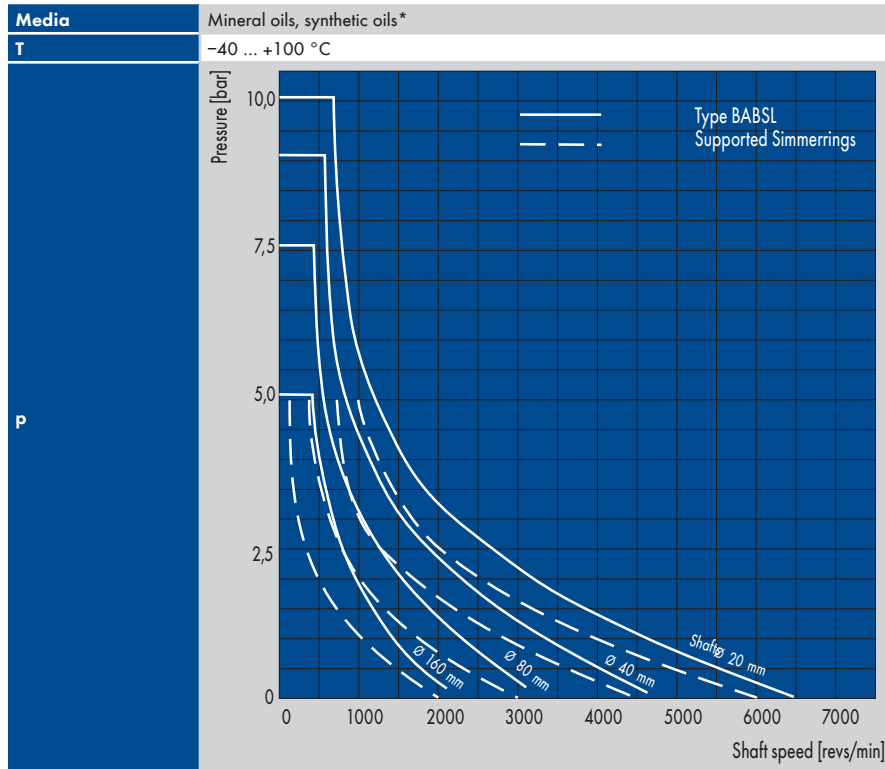
### PRODUCT PROPERTIES

- Outer casing: elastomer
- Short, flexible, spring-loaded sealing lip
- Additional dust lip

### APPLICATION

- 2-stroke engines
- Hydrostatic drives (pumps, engines of all kinds)

## OPERATING CONDITIONS



Permissible pressure in the unit for Simmerrings (type BABSL), as well as for Simmerrings with back-up rings.

\* 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 (only for use of NBR).

Max. permissible values depend on the other operating conditions.

## FITTING & INSTALLATION

### Shaft

<b>Tolerance</b>	ISO h 11
<b>Runout</b>	IT 8
<b>Roughness</b>	$R_a = 0,2 \dots 0,4 \mu\text{m}$
	$R_z = 1,0 \dots 3,0 \mu\text{m}$
	$R_{\text{max}} \leq 6,3 \mu\text{m}$
<b>Hardness</b>	45 ... 60 HRC
<b>Finish</b>	No lead; preferably plunge ground

### Housing bore

<b>Tolerance</b>	ISO H8
<b>Roughness metal outer surface OD</b>	$R_z = 10 \dots 25 \mu\text{m}$

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

### Range of dimensions for shafts- $\varnothing$ d1

<b>Simmerring BABSL (NBR)</b>	8 ... 340 mm
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