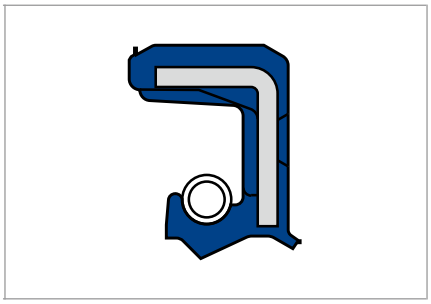
SIMMERRING BABSL



Simmerring BABSL

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
- Sealing lip profile, sealing lip machined on the front face
- Sealing lip profile, finished sealing lip

APPLICATION

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

MATERIAL

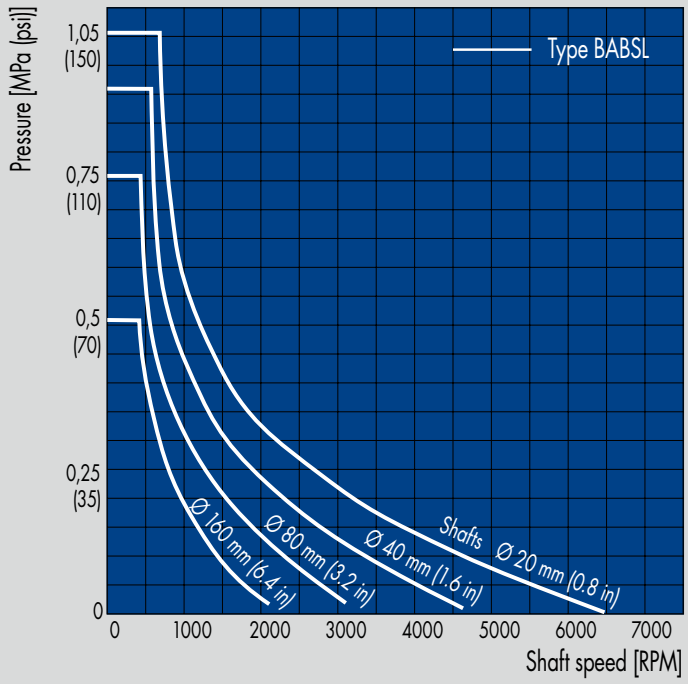
Material	Acrylonitrile-butadiene rubber
Code	72 NBR 902
Colour	Blue
Hardness	75 Shore A

Material	Fluoro rubber
Code	75 FKM 595
Colour	Brown
Hardness	75 Shore A

Components

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

OPERATING CONDITIONS

Media	Mineral oils, synthetic oils*
T	–40 ... +100 °C
p	

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

Tolerance	ISO h 11
Runout	IT 8
Roughness	R_a = 0,2 ... 0,4 µm
	R_z = 1,0 ... 3,0 µm
	R_{max} ≤ 6,3 µm
Hardness	45 ... 60 HRC
Finish	No lead; preferably plunge ground

Housing bore

Tolerance	ISO H8
Roughness metal outer surface OD	R_z = 10 ... 25 µm

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