





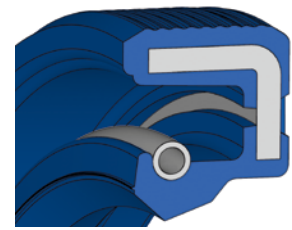
SEALS FOR ROTARY APPLICATIONS

SIMMERRING® SEALS

BA (SL)

Standard design with rubberized outer sleeve and friction-optimized seal profile. Available with dust lip (SL) to protect against light to medium levels of exterior soiling.

MATERIAL	72 NBR 902	75 FKM 585	75 FKM 260466
 MAX.	-40 to +100 °C	-25 to +160 °C	-25 to +160 °C
 MAX.	14 m/s (8 m/s)	38 m/s (8 m/s)	38 m/s (8 m/s)
 MAX.	0.05 MPa	0.05 MPa	0.05 MPa
	Industrial transmissions, shafts (for moderate soiling), power tools, agricultural and construction machinery transmissions		Use in synthetic oils, in particular polyglycols







BA

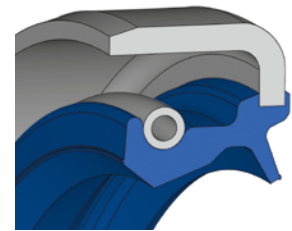


BA SL

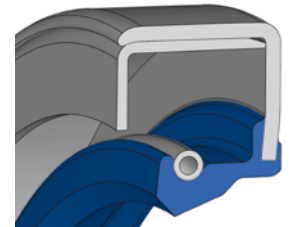
B1 (SL) / B2 (SL)

Standard design with basic (B1) or reinforced (B2) metal outer sleeve. Available with dust lip (SL) to protect against moderate to medium levels of exterior soiling. We recommend gluing the Simmerring® seal in position for improved static tightness.

MATERIAL	72 NBR 902
 MAX.	-40 to +100 °C
 MAX.	14 m/s (8 m/s)
 MAX.	0.05 MPa
	Industrial transmissions, shafts (for moderate soiling), power tools, heavy industry (cranes, calender transmissions, etc.)







B1 SL



B2

BAB (SL)

Pressure-resistant design with additional dust lip (SL) to protect against dirt accumulation that can be used without a backup ring.

MATERIAL	72 NBR 902	75 FKM 595
 MAX.	-40 to +100 °C	-25 to +160 °C
 MAX.	10 m/s	10 m/s
 MAX.	1 MPa	1 MPa
	Pressurized units such as hydraulic pumps, hydraulic motors, and hydrodynamic couplings	



BAB SL

Premium Pressure Seal (PPS)

Pressure-resistant design with rubberized external interference fit (BA) and low-wear sealing lip profile that can be used without a backup ring. Boasts a patented sealing edge design that keeps the lip profile stable at up to twice the pressure of the conventional pressure design (BAB SL).



PPS

MATERIAL	75 FKM 595
MAX.	-25 to +160 °C
MAX.	15 m/s
MAX.	1 MPa (pressure peaks 2.5 MPa)
	Hydrostatic drives

BAHD

Profile for high-pressure loads with very short sealing lip and descending metal reinforcement located near the shaft to provide support.



BAHD

MATERIAL	90 NBR 129208	88 FKM 107725
MAX.	-30 to +100 °C	-25 to +160 °C
MAX.	2 m/s	2 m/s
MAX.	15 MPa	15 MPa
	Low-speed hydrostatic drives	





Modified catalog products

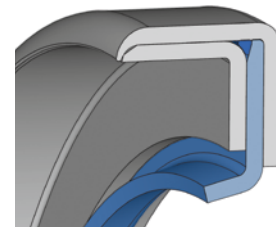
PROFILE	MODIFICATION	AREA OF APPLICATION
	Stainless steel spring (rustproof, 1.4571)	Water applications, corrosive media
	Spring with adjusted spring force (stronger/weaker)	Applications with high circumferential speeds, insufficient lubrication, strong vibrations, increased shaft wear
	Protective lip venting	Applications with circumferential speeds between 8 and 15 m/s and Simmerring® seal with protective lip. Venting helps prevent the lip from being drawn in by suction force.
	Lubrication of the protective lip	The protective lip must always be lubricated with grease. You can also order the Simmerring® seal pre-lubricated from FST.
	PTFE, nonwoven, or PTFE-impregnated nonwoven protective lip	Applications with increased dirt ingress, tire pressure control systems, food and beverage applications, aggressive cleaning media

PTFE SIMMERRING® SEALS

B2PT

Design for extreme thermal and chemical loads, as well as for dry running and insufficient lubrication. Stainless steel housing (V4A) with PTFE sealing lip. Further versions are available, such as PTFE materials with FDA and EU Reg. 10/2011 conformity.





MATERIAL	Application-specific PTFE materials
 MAX.	-80 to +200 °C
 MAX.	30 m/s
 MAX.	1 MPa
	Chemical engineering, mechanical engineering, mixers, centrifuges, pumps, pressure rotary feedthroughs

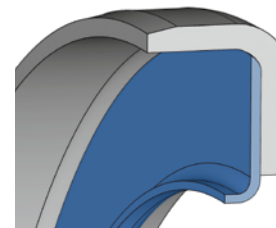


B2PT

B1PT

Combination of a metallic carrier with a PTFE disc using an innovative bonding process. The design facilitates low axial height. Further versions are available, such as PTFE materials with FDA and EU Reg. 10/2011 conformity.





MATERIAL	Application-specific PTFE materials
 MAX.	-80 to +200 °C
 MAX.	50 m/s
 MAX.	1 MPa
	Tire pressure control systems (CTI), rotary feedthroughs, mechanical engineering

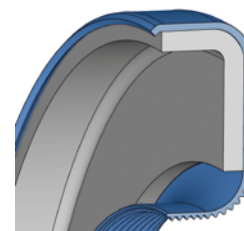


B1PT

BlueSeal

The patented technology offers a friction-optimized lip design with a high degree of chemical resistance. The installation space can be reduced by up to 50%. Further versions are available, such as PTFE materials with FDA and EU Reg. 10/2011 conformity.





MATERIAL	Application-specific PTFE materials
 MAX.	-80 to +200 °C
 MAX.	50 m/s
 MAX.	0.03 MPa (higher pressures also possible in combination with a support plate)
	Food industry, pharmaceutical industry, engineering, motors, retarders

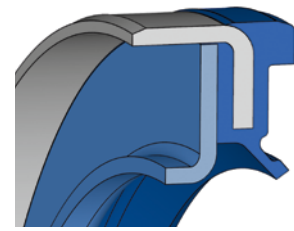


BlueSeal

BAPT / PTS

Design with friction-optimized PTFE sealing lip for extreme thermal and chemical loads, for dry running and insufficient lubrication. Optimum static tightness thanks to partial rubber coating on the outer sleeve. Rotational direction-dependent return feed. Optional dust lip made of nonwoven material or elastomer.

MATERIAL	Application-specific PTFE materials	
 MAX.	-25 to +160 °C	
 MAX.	35 m/s	
 MAX.	1 MPa	
	Hydrostatic drives, food industry, retarders, motors	







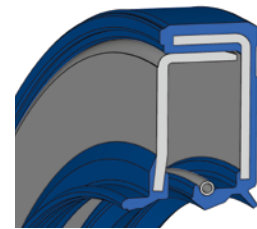
BAPT / PTS

MODULAR SEAL SYSTEMS

MSS1

Standard design BA, combined with an inner buffer seal with sinusoidal sealing lip as a one-piece solution. Lubricated with Klüber Petamo GHY 133N high-performance lubricating grease. High resistance to soiling and metal abrasion in the oil chamber.





MATERIAL	75 FKM 585 / 75 FKM 585	72 NBR 902 / 75 FKM 585
 MAX.	-25 to +160 °C	-25 to +100 °C
 MAX.	6 m/s	6 m/s
 MAX.	0.05 MPa	0.05 MPa
	Industrial transmissions, drive technology, robotics	

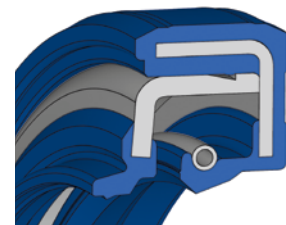


MSS1

MSS1 HS

Standard design BA, combined with an inner buffer seal with sinusoidal sealing lip as a one-piece solution. Lubricated with Klüber Petamo GHY 133N high-performance lubricating grease. High resistance to soiling and metal abrasion in the oil chamber.

MATERIAL	72 NBR 902 / 75 FKM 585	75 FKM 585 / 75 FKM 585
 MAX.	-25 to +100 °C	-25 to +160 °C
 MAX.	8 m/s	8 m/s
 MAX.	0.05 MPa	0.05 MPa
	Industrial transmissions, drive technology, robotics	







MSS1 HS

Seals for rotary applications

MSS3

Modified standard design BA with bonded special nonwoven, a PTFE disc, or a PTFE-impregnated nonwoven disc as an additional protective lip against very fine dirt accumulation. Suitable for use with extremely aggressive media from outside, such as cleaning agents.





MATERIAL	72 NBR 902	75 FKM 585
 MAX.	-40 to +100 °C	-25 to +160 °C
 MAX.	14 m/s (8 m/s)	38 m/s (8 m/s)
 MAX.	0.05 MPa	0.05 MPa
	Drive technology, industrial transmissions, agricultural and construction machinery	



MSS3

MSS7

Standard design BA, combined with a rubberized slip ring with outer, axial protective lips as a one-piece solution. A seal system with high resistance to dirt, water, and external environmental influences.

MATERIAL	72 NBR 902 / 72 NBR 902
 MAX.	-40 to +80 °C
 MAX.	8 m/s
 MAX.	0.05 MPa
	Drive technology, special transmissions, shafts for agricultural and construction machinery, shafts for special vehicles



MSS7