



THE SIMMERRING® MSS 1

THE UNIQUE PERFORMANCE OF MSS 1

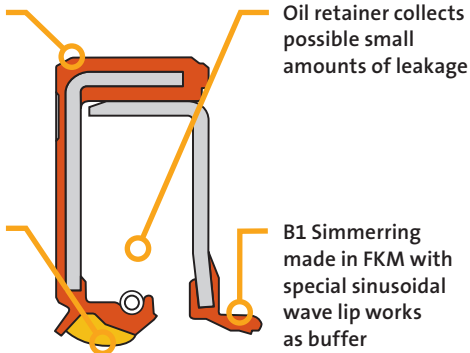
The MSS 1 Simmerring is a unique, patented sealing system with proven functionality in different gearbox and pump applications and with a service life time up to 20,000 hours.

Comprised of a well-proven, standard Simmerring combined with an inner buffer, the MSS 1 delivers contaminant exclusion, including particles from gear wear, with low friction.

Vertical sealing applications traditionally use a primary seal and a second redundant seal. The MSS 1 replaces both seals, greatly reducing friction and required installation space.

Standard BAUM Simmerring with dust lip made of NBR or FKM

Sealing and dust lip pre-lubricated with high-performance grease



VALUES FOR THE CUSTOMER

- Protection from internal contamination even at vertical shaft position
- Low friction even at overpressure
- Less stress of lubricant due to sinus wave lip
- Up to 70% less friction/power dissipation in comparison to existing solutions (two seals)
- Substitution of housing flange
- Long service life up to 20,000 hours and more with combination FKM/FKM
- Available without tooling cost from 20mm to 145mm shaft sizes

Recommendations for using MSS 1

- Two seals have to be replaced
- Less assembly space is required
- High lifetime and reliability is required
- The housing flange can be replaced

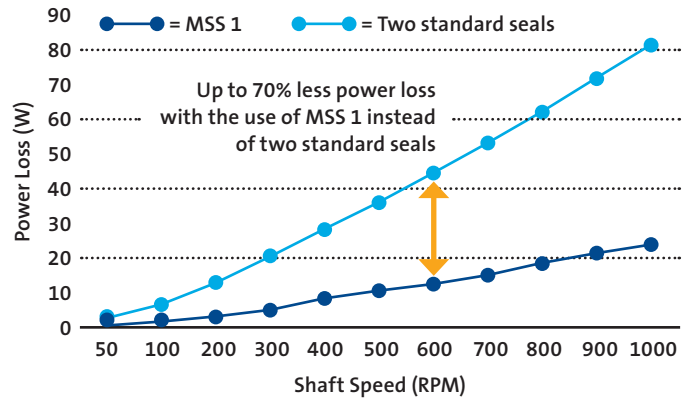
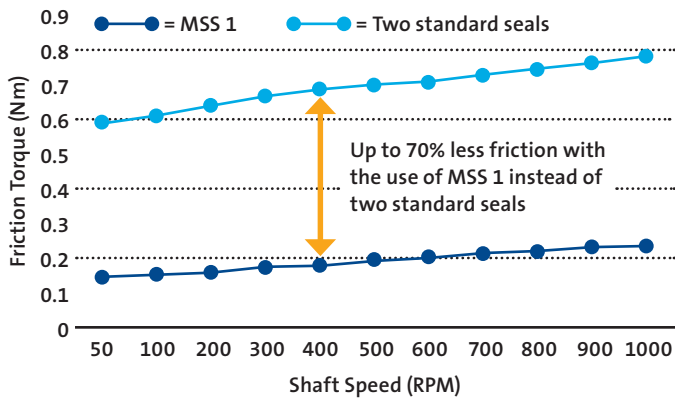




FEATURES AND BENEFITS

The unique performance of the Simmerring MSS 1

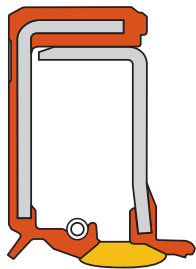
Energy saving with lower power loss of MSS 1



Example:
 Shaft diameter: 50 mm
 Medium: ARAL SAE 80
 Grease: Kluber Petamo GHY 133 ca. 40 %
 Temperature: 80°C

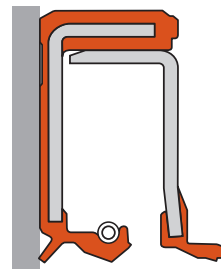
Possible modifications of the Simmerring MSS 1

MSS 1-HS for high-speed applications



- B1 component made of 75 FKM 585 or 75 FKM 170055
- Trimmed dust lip without contact
- Main lip without spring or spring with very low force
- Special grease depot

MSS 1 SLV for external dirt protection



- MSS 1 with additional washer of non-woven fabric, PTFE fabric, or carbon PTFE
- Trimmed dust lip without contact

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

www.fst.com