The NEW Gearbox Output SundSEAL™
For Sundyne Integ rally
Geared Pumps & Compressors

- Increased MTBR
- For Low or High-Speed Service
- Reduced Leakage
- Lower Contact Face Temperatures
- Reverse Pressure Capability
- Easy to Maintain
Typical seals can cause excessive leakage. The NEW proprietary, easy-to-upgrade Gearbox Output SundSEAL from Sundyne is proven to reduce leakage. With proper lubrication and system pressure management, this new seal vastly improves overall operational efficiency and delivers higher MTBR.

Why Sundyne Seals?
SundSEAL uses the latest Sundyne technology to extend reliability. Specifically designed for use with Sundyne integrally geared pumps and compressors, the seal minimizes leakage and increases MTBR. Manufactured from Sundyne proprietary materials, this is our most durable seal to date; and with a straightforward retrofit capability, SundSEAL is an easy upgrade for existing units.

The Basics
Gearbox output seals are made to keep lubricant inside the unit, with the seal’s stationary and dynamic components coming together to create a mechanical seal. In making contact with each other, these dual parts keep lubricant where it needs to be. Sundyne has specifically designed the SundSEAL to minimize leaks, while also effectively controlling seal face condition. This is the ideal seal design, providing improved performance, reverse pressure capability and longer part life.

Plus – due to its straightforward installation process, SundSEAL output seals can be integrated with your process quickly in the field, without the need to ship your pump to our factory for an upgrade.

Optimize Performance
Over three years of development went into the SundSEAL design, during which time we created a new port design for optimal drainage and pressure management around the SundSEAL contact face. The lower gearbox housing now features three additional passage ways that connect the oil sump area to the SundSEAL. This extra routing improves the seal’s ability to control oil leakage by reducing seal face separation force.

This lower gearbox housing modification will optimize SundSEAL’s performance, but it is not mandatory for operation. The leakage results published in this brochure were measured without the modification.

Added Gearbox Protection
With its reverse pressure capability, the SundSEAL offers a competitive advantage over existing face lift-off seals. The SundSEAL creates a barrier between the process seals and the gearbox interior that is strong enough to withstand pressure up to 275 PSI providing protection and reliability by keeping process fluid out of your gearbox. In the event of a process seal failure, the SundSEAL will increase equipment reliability and reduce downtime.
Factory Tested For Multiple Variables

Sundyne understands that a great seal needs to maintain its seal interface geometry to avoid excessive leakage. The Gearbox Output SundSEAL is specifically designed to minimize leakage while effectively controlling seal face condition for a longer, more durable life. The new seal comes with over 20,000 hours of combined factory and lab testing behind it so you can count on its dependable performance in even the most challenging applications.

**Field-proven performance, with hundreds of SundSEAL installations in critical services around the world.**
NOW IT’S EASIER THAN EVER TO UPGRADE YOUR SEALS!

Product Development
In effort to reduce leakage and prolong seal life over existing market options, two new gearbox output seals are available.

The mechanical design and material selection are specifically engineered for the Sundyne gearbox and are optimized based on output speed. Each seal is packaged into a kit containing one SE04AA98A stationary seal and one RJ09AKXXXSN1HN00 mating ring. Three kits cover all applicable pump, compressor, and unique configured gearboxes:

KT01SE98A0 Low-RPM Seal Kit
- Output speed ≤ 20,000-RPM
- 275-PSI (19-bar) reverse pressure capability
- Contains SE04AA98A and RJ09AKXXXSN1HN00

KT01SE98A1 Low-RPM Seal Kit (high-flow pump models only)
- Output speed ≤ 20,000-RPM
- 275-PSI (19-bar) reverse pressure capability
- Contains SE04AA98A and RJ09AK16SN1HN00

KT01SE99A High-RPM Seal Kit
- Output speed > 20,000-RPM
- 150-PSI (10.3-bar) reverse pressure capability
- Contains SE04AA99A and RJ09AK41SN1HN00

A Legacy Of Quality
Our factories around the world have been manufacturing highly reliable compressors and pumps for over sixty years, engineering each shipped unit to meet the highest quality and most rigorous industry standards.

Give us your toughest application requirements and we'll custom tailor a solution to fit your needs today. We NEVER say never!

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