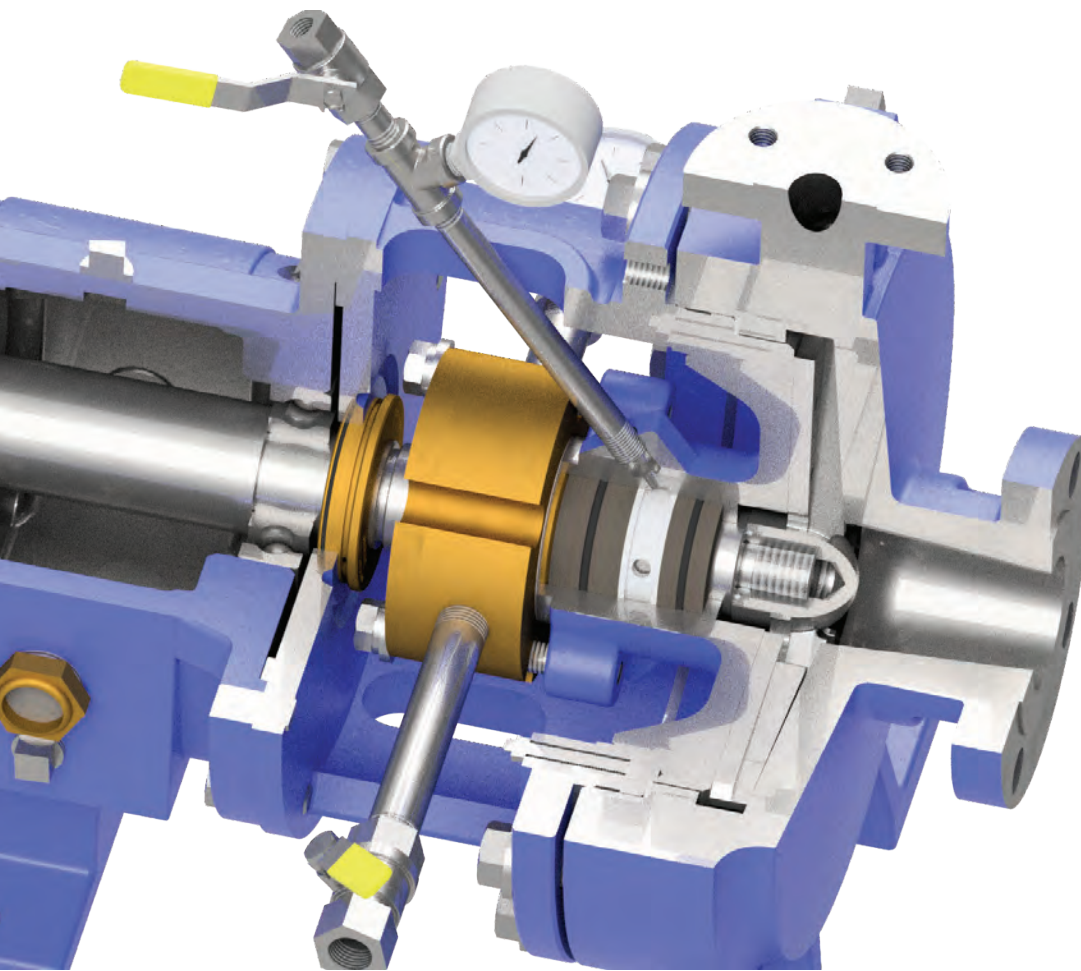


SAS-P System for Pumps

The SEPCO **SAS-P** is designed specifically for horizontal and vertical centrifugal pumps in nonhazardous services. It is a complete system that incorporates two shaft-supporting bushings and a lantern ring. It is a noncontact tandem seal that uses air to seal and water to flush/clean the stuffing box/seal chamber. The SAS-P is ideal for pulp and paper, food and beverage, municipal water/wastewater, mining, dredging chemical industries.



COMPONENTS

- SEPCO SAS air seal
- Two HydraLoad shaft-supporting bushings
- High-performance Thermex lantern ring

FEATURES & BENEFITS

The seal is impervious to traditional system conditions that are considered pump/seal killers, such as:

- Pipe strain
- Misalignment
- Off-BEP operation
- Cavitation

IMPROVEMENTS COMPARED TO TRADITIONAL SYSTEMS

The SAS-P is a direct and longer-life replacement for split mechanical seals. Installation is simplified because the split design allows the system to be installed without any equipment removal or breakdown. The system can withstand 0.25 inch of radial movement and unlimited axial movement.

SAS-P System for Pumps

CASE STUDY



At a producer of packaging and tissue products in the U.S., a maintenance supervisor, had a hydropulper discharge pump application with problems. The issue was that the single cassette mechanical seal installed on the discharge pump only lasted a week or two at best and then failed.

The pump's wet end was not bolted down. Instead, it was slotted with a concrete pad. The system experienced too much pipe strain, causing the mechanical seals to fail.

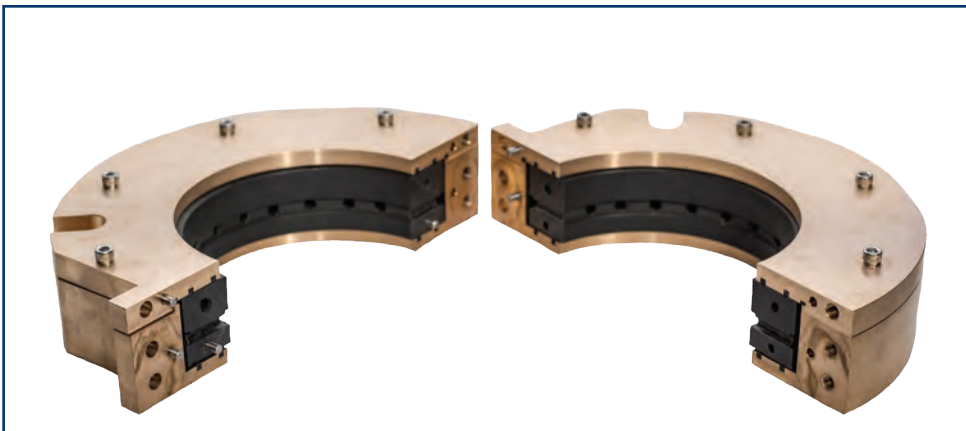
The plant team and SEPCO replaced the failing seal and installed the SAS-P system that included a split air seal, two shaft supporting bushings, and a lantern ring.

With this new arrangement, the team was able to throttled back the flush system (introduced through the lantern ring) operating at 15 psi higher than stuffing box pressure and plant air on the air seal is at 5 psi to 10 psi higher than the flush pressure.



One lantern ring is included in the SAS-P System.

The SAS-P system has been successfully operating for more six months, and the air seal has not been impacted by the movement of the wet end of the pump. The maintenance supervisor plans to expand the system's use to other pumps in the facility



The SAS-P split design allows for simplified installation.