



Hygienic and Aseptic Seals – Keeping your process integrity at all time

The solution for controlled and reliable sealing of rotating movements with an absolute protection of (valuable) product, people and the environment. The dead-space free construction can be cleaned from the internal part of the seal by means of CIP and / or SIP. It is also possible to provide the seal with a sterile barrier for use in high-care aseptic and pharmaceutical applications. The condition of the seal can be carefully checked and monitored during its lifetime. A compressed air or barrier-gas signal reports the integrity "health" of the seal. This makes it possible to accurately monitor 24/7 the seal integrity and predict maintenance. No complex and costly subsystems are required, as is customary with traditional mechanical seal systems.

Application areas include process installations and machines where a rotating movement must be reliable, product-friendly and optimally sealed used in the following industries;

- ✓ Beer and soft drinks industry
- ✓ Food industry
- ✓ Pharmaceutical industry

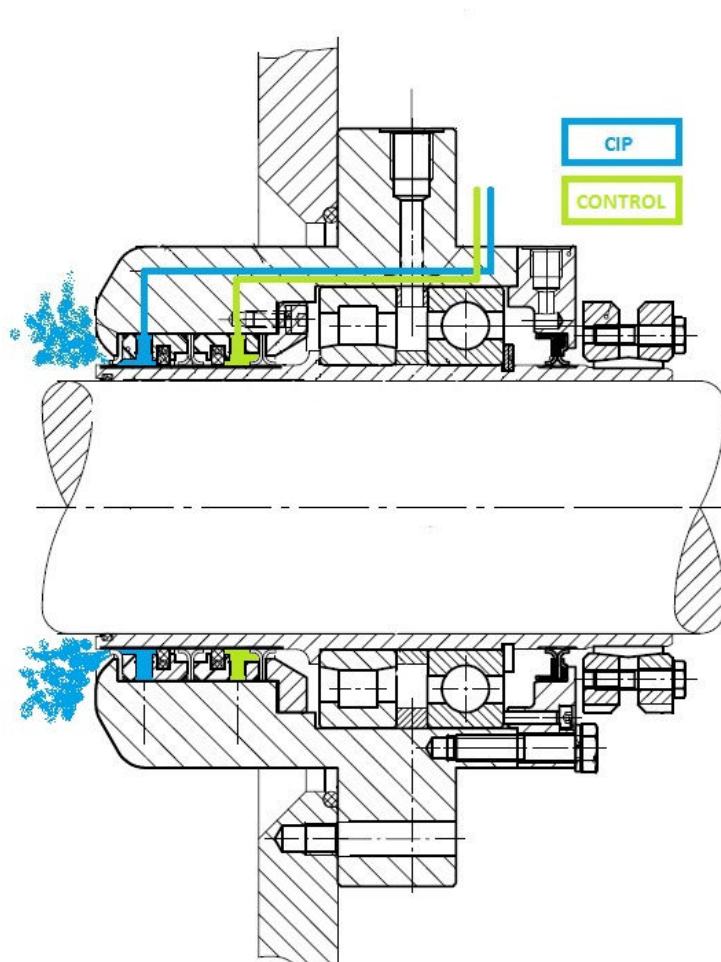


Product specifications

Available sizes	: Ø20 t/m Ø600 mm
Available designs	: Clamped, flanged or as swimming execution With or without integrated support bearing
Design pressure	: -1 up to 10 bar
Design temperature	: -90°C up to +220°C
Housing	: Standard Stainless Steel 1.4571 (316Ti), optional Duplex 1.4462, Hastelloy and Titan
Lip Seals	: TEdiFLON Super HP - TEDEX
Elastomer	: EPDM, Viton, NBR, Silicone
Shaft protection	: TMP70 - FDA
Certification	: CE1935/2004, EU10/2011 and FDA
ATEX	: Available for ATEX gas and liquid applications
Design classification	: Aseptic Type EL - Aseptic CLASS I Hygienic Type EL - CLASS I

Benefits and features

- ✓ Interchangeability with existing sealing systems
- ✓ Dead-space free construction towards product
- ✓ Cleanable with CIP / SIP, both internally and externally
- ✓ Can be provided with a sterile barrier
- ✓ Integrity controllable over the entire service life - Alert Status
- ✓ Suitable for pressure, vacuum or combined pressure / vacuum application
- ✓ Simplicity - keep it simple for service and maintenance
- ✓ Very attractive OPEX and TCO
- ✓ Excellent chemical resistance
- ✓ Wear-resistant and low frictional resistance
- ✓ Excellent dry-running properties
- ✓ No subsystems needed

Working principle

Designed according to International guidelines



The CIP / SIP connection is connected to a controlled branch of the CIP / SIP main line and runs along with the normal cleaning process. Seal is hereby cleaned both internally and externally. By means of the compressed air or barrier-gas control signal it is possible to check the integrity "health" of the seal 24/7. If desired, it is possible to set a predefined alert status, being:

- ✓ Low alarm - Warning starting leak
- ✓ Medium alarm - Warning maintenance upcoming
- ✓ High alarm - Warning requires immediate maintenance



Food - Certification
Regulation (EG) Nr. 1935 / 2004
Regulation (EU) 10 / 2011
FDA - compliant



TEDIMA is certified according to
DIN EN ISO 9001:2008 and manufactures
seals with ATEX approval.

