



STANDARD COMPONENT SEALS

CSO - CORROSIVE SERVICE OUTSIDE SEAL

The SEPCO® CSO seal is a single rotating assembly designed for mounting externally. Since the metal components are isolated from the fluid, the seal can operate in highly corrosive applications without upgrading to expensive exotic alloys.

Hydraulically Balanced

The CSO is reverse-balanced to prevent catastrophic leakage from face separation caused by stuffing box pressure surges. Hydraulic load is reduced at elevated pressures resulting in cooler operation and long-term reliability.

Easily Installed and Maintained

Since the CSO mounts externally and has assembly clips to fix the axial setting, installation is easy with no installation measurements required. Inspection and adjustment are readily performed to insure correct spring loads are maintained.

Easily Serviced

Adjustments and cleaning are performed without removal and equipment disassembly.

Isolated Multiple Springs

Equally spaced multiple springs allow even loads and operate cooler than split collar designs. To prevent clogging and corrosion they are isolated from the process fluid and made from Hastelloy®.

Field Repairable

Components subject to normal wear can be replaced in the field without the cost and inventory associated with factory repair while providing reliability consistent with new seals.



NOTES: 1. A clamp-in stationary seat must be specified and ordered separately. 2. A split ring option is available and should be used on fragile sleeve materials such as glass, fiberglass, ceramic, etc.

CSO - SPECIFICATIONS

Metal Parts:

Standard metal parts and set screws: 316 SS

Standard drive pins and springs: Hastelloy® C

Face Materials:

Standard: High quality chemical grade carbon-graphite*

Optional: Glass filled PTFE, ceramic, siliconized carbon*

*Metal banded to prevent mechanical breakage due to high torque

O-ring Materials:

Standard: Viton®, EPR, Aflas™

Optional: Perfluorinated Elastomers

Operating Capabilities:

Pressure: To 150 psig (10 bar g)

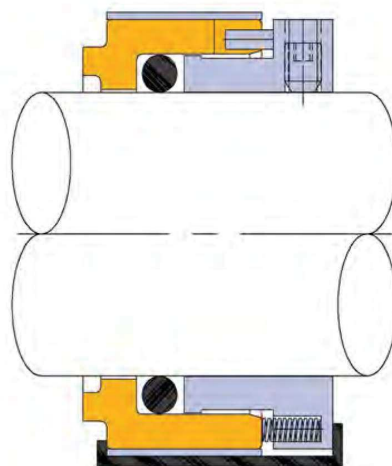
Temperature: -20° to 250°F (-29° to 121°C)

Speeds: 2600 fpm (13 m/s)

Viton® is a registered trademark of E.I. duPont.

Aflas™ is a trademark of Asahi Glass Co., Ltd.

Hastelloy® is a registered trademark of Haynes International, Inc.



Stationary seat rings must be ordered separately.
Please see page 37 for standard configurations.





STANDARD COMPONENT SEALS

SRS - SHORT ROTARY SEAL

The SEPCO® SRS is a single rotary unit designed for mounting internally and for general service operation on lubricating process fluids where 316SS is compatible. Several mating ring configurations and materials are available for running in conjunction with the SRS and must be specified and ordered separately.

Compact Design

The small cross-section design and short operating height permit use in all types of seal chambers without modification. SRS rotary units are designed to operate at a common axial setting of 1.375".

Hydraulically Balanced

Positive hydraulic balancing permits use in higher pressures by reducing closing loads resulting in cooler operation and extended reliability. The balance feature also reduces power consumption.

Resists Clogging

The placement of the dynamic o-ring allows it to move toward a clean surface as the seal faces wear. This allows for use on process liquids that contain suspended solids.

Isolated Multiple Springs

The multiple spring design allows for even mechanical loads and cooler operation. To prevent clogging from suspended solids, the springs are isolated from the process fluid.

Static Shaft O-ring

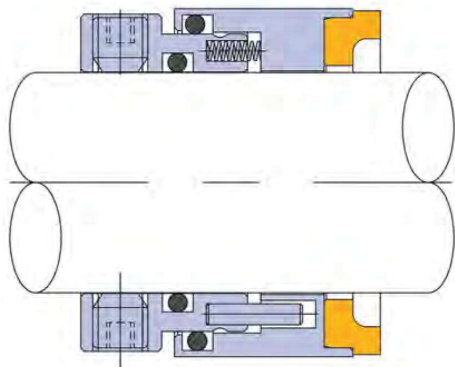
The o-ring that seals to the shaft / sleeve does not slide axially as the seal adjusts for misalignment. This prevents fretting and eliminates the need to replace expensive shafts and sleeves.

Inexpensive

The simple design reduces cost while maintaining the integrity required to provide long, trouble-free operation.



SRS - SPECIFICATIONS



Stationary seat rings must be ordered separately. Please see page 37 for standard configurations.

Metal Parts:

Standard metal parts, set screws and drive pins: 316 SS
Standard springs: Hastelloy® C

Face Materials:

Standard: High quality chemical grade carbon-graphite
Optional: Solid nickel bound tungsten carbide

O-ring Materials:

Standard: Viton®, EPR and Aflas™
Optional: Perfluorinated Elastomers

Operating Capabilities:

Pressure: To 350 psig (24 bar g)
Temperature: -20° to 400°F (-29° to 205°C)
Speeds: 5000 fpm (25 m/s)



STANDARD COMPONENT SEALS

HDN - HEAVY DUTY NARROW SEAL

The SEPCO® HDN is a single, component, rotary unit designed to mount internally. Rotaries equipped with carbon faces are for use on clean liquids and siliconized carbon faces are preferred for sealing slurries. Several mating ring configurations and materials are available for running in conjunction with the HDN and must be specified and ordered separately.

Narrow Design

The small cross-section permits installation in stuffing boxes with minimal radial clearance.

Hydraulically Balanced

Internal balancing reduces power consumption and permits use in higher pressures by reducing closing loads that result in cooler operation and extended reliability.

Isolated Multiple Springs

Multiple springs provide even mechanical loads for cooler operation. To prevent clogging and corrosion they are isolated from the process fluid and manufactured from Hastelloy®.

Static Shaft O-Ring

The o-ring that seals to the shaft/sleeve does not slide axially as the seal adjusts for misalignment preventing fretting and eliminating the need to replace expensive shafts and sleeves.

Field Repairable

Components that wear during normal operation can be easily replaced in-the-field for a fraction of the cost of a new seal. This reduces inventory while providing performance consistent with a new seal. The repair kit feature also makes the HDN attractive for applications that require the use of expensive alloys.



HDN - SPECIFICATIONS

Metal Parts:

Standard metal parts and set screws: 316 SS
Standard springs and drive pins: Hastelloy® C

Face Materials:

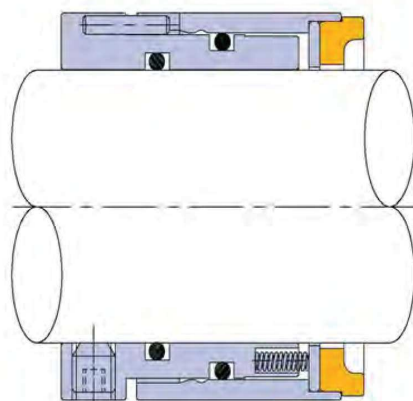
Standard: High quality chemical grade carbon-graphite and siliconized carbon
Optional: Solid nickel bound tungsten carbide

O-ring Materials:

Standard: Viton®, EPR and Aflas™
Optional: Perfluorinated Elastomers

Operating Capabilities:

Pressure: To 350 psig (24 bar g)
Temperature: -20° to 400°F (-29° to 205°C)
Speeds: 5000 fpm (25 m/s)



Stationary seat rings must be ordered separately. Please see page 37 for standard configurations.