

# 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

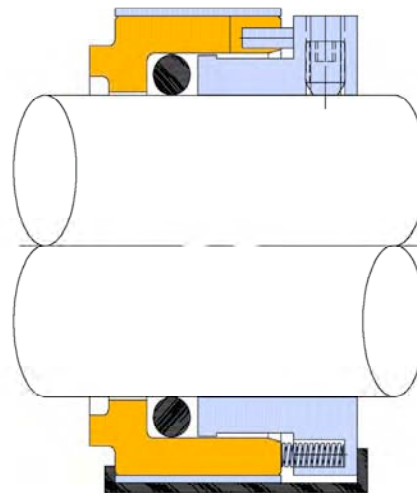
### O-ring Materials:

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)

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

**SEPCO®**

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