

SPECIAL DUTY SEALS - SINGLE CARTRIDGE

ESC - EXTERNAL SINGLE CARTRIDGE SEAL

The SEPCO® ESC is a single, external, cartridge-mounted unit designed for operation on clean, lubricating, fluids that are corrosive to standard 316SS parts. Alloy 20 wetted parts and a carbon-filled PTFE gland make this seal ideal for use in sulfuric acid. The stationary design eliminates face misalignment eliminating wear in secondary areas of the seal.

Cartridge Mounted

The unit is a completely self-contained design that is pre-assembled and pre-set at the factory for ease of installation and maintenance on equipment where axial adjustments are required.

Stationary Design

This design squares the faces 90° to the center-line of the shaft preventing misalignment allowing better control of the parallel sealing gap while eliminating axial adjustments that cause wear.

Hydraulically Balanced

Internal balancing reduces power consumption and provides for cooler operation in higher pressures extending seal reliability.

Isolated Multiple Springs

This provides even mechanical loads for cooler operation and are isolated to prevent clogging from process fluids.

Static Shaft O-Ring

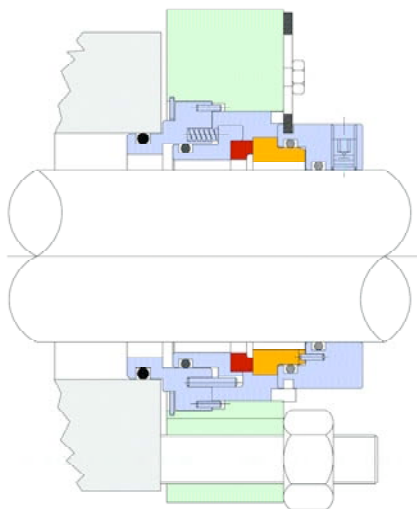
The shaft o-ring is static and is not required to move axially to adjust for misalignment preventing fretting and eliminating the need to replace expensive shafts and sleeves.

Versatility

The seal gland is slotted to provide maximum interchangeability and the short external length will fit equipment with minimal first obstruction space.



ESC - SPECIFICATIONS



Metal Parts:

Standard parts: Alloy 20 wetted parts, carbon filled PTFE Gland
Standard springs and drive pins: Hastelloy® C

Face Materials:

Standard: Acid grade carbon-graphite, silicon carbide, and high purity ceramic

O-ring Materials:

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

Operating Capabilities:

Pressure: To 150 psig (10 bar g)
Temperature: 32° to 250°F (0° to 121°C)
Speeds: 2600 fpm (13 m/s)

SEPCO®

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