

BSS Balanced Single Spring Seal

The SEPCO® BSS is a single, internal, cartridge-mounted seal that utilizes a single coil spring for providing consistent mechanical loads to maintain seal face alignment. This permits the BSS to operate on equipment with up to 1/8" end play making it ideal for use on double suction pumps handling relatively clean liquids.

CARTRIDGE MOUNTED

A completely self-contained unit pre-assembled and pre-set at the factory for ease of installation and maintenance.

HYDRAULICALLY BALANCED

Internal balancing allows higher operating pressures than conventional unbalanced single spring designs. This feature reduces hydraulic loads for cooler operation and less power consumption.

VERSATILE

The small cross-section allows for installation on stuffing boxes with minimal radial space. The short external length permits installation on equipment with limited first obstruction space. The machined gland has superior strength and corrosion resistance. Modifications can be made to the seal rather than the equipment.

STATIC SHAFT O-RING

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

FIELD REPAIRABLE

Primary and secondary seal components that wear during normal operation can be easily replaced with new parts at a fraction of the cost of a new seal. This reduces inventory cost while providing performance consistent with new mechanical seals.



BSS SPECIFICATIONS

Metal Parts:

- Standard metal parts and spring: 316 SS

Face Materials:

- Standard: High quality chemical grade carbon-graphite, solid nickel bound tungsten carbide, and silicon carbide
- Optional: 17-4PH

O-ring Materials:

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

Operating Capabilities:

- Pressure: To 300 psig (21 bar g)
- Temperature: -20° to 400°F (-29° to 205°C)
- Speeds: 5000 fpm (25 m/s)

Certified to ISO 9001:2015 Standards

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