

# SPECIAL DUTY SEALS - SINGLE COMPONENT

## OSS - OUTSIDE SINGLE SPRING

The SEPCO® OSS is an external mounted, single spring component seal designed primarily for installation on positive displacement pumps. Ease of installation and maintenance makes the seal excellent for sealing products that polymerize. The OSS can be designed to handle up to 1/4" shaft deflection and 1/8" end-play making it also ideal for installation on augers, mixers, agitators and reactors.

### Hydraulically Balanced

The OSS 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 OSS 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.

### Field Repairable

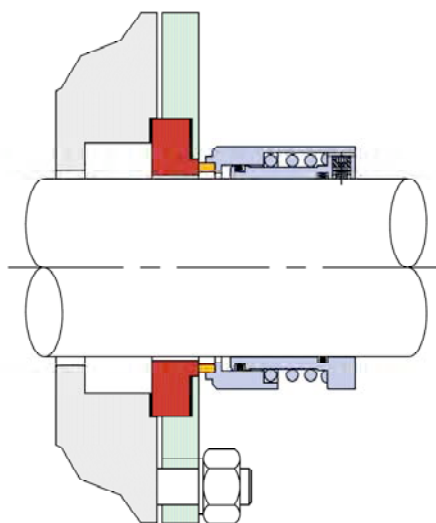
Components subject to normal wear can be replaced in the field without the cost and inventory associated with factory repair while providing reliability consistent with new seals.

### Static Shaft O-Ring

The o-ring that seals to the shaft is static and is not required to slide axially along the shaft to accommodate for seal face misalignment. This prevents fretting and eliminates the need to replace expensive shafts and sleeves.



## OSS - SPECIFICATIONS



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

### Metal Parts:

Standard metal parts and set screws: 316 SS

### Face Materials:

Standard: High quality chemical grade carbon-graphite and solid nickel bound tungsten carbide  
Optional: Silicon carbide

### O-ring Materials:

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

### Operating Capabilities:

Pressure: To 150 psig (10 bar g)  
Temperature: -20° to 250°F (-29° to 121°C)  
Speeds: 1000 fpm (5 m/s)

**SEPCO®**

**GOODYEAR**  
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