



STANDARD SINGLE CARTRIDGE SEALS

SRC - SINGLE ROTARY CARTRIDGE SEAL

The SEPCO® SRC is a single internal cartridge-mounted rotary seal. The design is simple and loaded with design features found in more expensive seals. It is rugged and highly dependable yet cost less than most competitors' repaired units. It is designed for general service and for sealing lubricating liquids in pulp & paper, chemical processing, and wastewater treatment plants.

Cartridge Mounted

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

Compact

The small cross-section and short internal and external axial lengths allow for installation on equipment with small, shallow stuffing boxes as well as limited first obstruction space.

Versatile

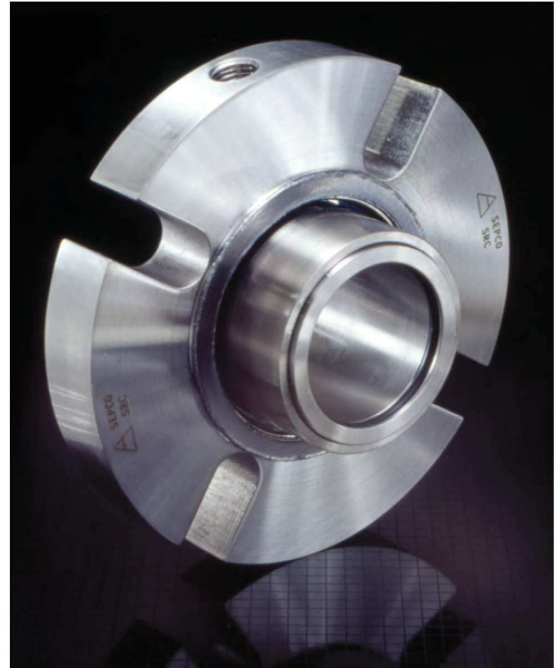
The slotted gland allows the seal to fit a variety of stud sizes and bolt circle diameters. It is machined for superior strength and corrosion resistance and can be easily modified for fitting restricted spaces where equipment modifications are usually required.

Hydraulically Balanced

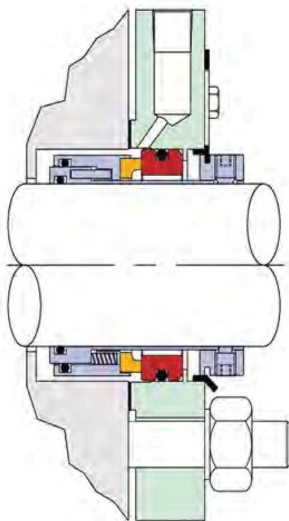
Hydraulic balancing is achieved internally and provides for operations at higher stuffing box pressures. The balance feature also allows the seal to load lighter and run cooler extending reliability and reducing power consumption.

Isolated Multiple Springs

The multiple springs provide even mechanical loads for cooler operation and are isolated to prevent clogging from process fluids containing suspended solids.



SRC - 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 silicon carbide
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 SINGLE CARTRIDGE SEALS

VGS - VERSATILE GENERAL SERVICE SEAL

The springs in the **VGS** are located in the seal gland and are not subjected to centrifugal forces permitting operation on high PV applications. The stationary design eliminates seal face misalignment and is ideal in pulp & paper, chemical processing, wastewater treatment, and wherever high speed applications are found.

Stationary Design

The seal faces are squared 90° to the center line of the shaft preventing misalignment and allowing for better control of the parallel sealing gap eliminating axial adjustments that cause wear.

Cartridge-Mounted

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

Compact

The narrow cross-section allows for installation on stuffing boxes with minimal radial space without requiring modifications. This includes small ANSI pumps with 5/16" radial space.

Versatile

The seal gland is slotted to provide versatility for mounting and machined for superior strength and corrosion resistance. **Hydraulically Balanced**

Internal balancing provides for operation in higher pressures and reduces hydraulic loads providing for cooler operation and extended reliability. The balance feature also reduces power consumption.

Isolated Multiple Springs

Multiple springs provide even mechanical loads for cooler operation and are isolated to prevent clogging from process fluids containing suspended solids.



VGS - SPECIFICATIONS

Metal Parts:

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

Face Materials:

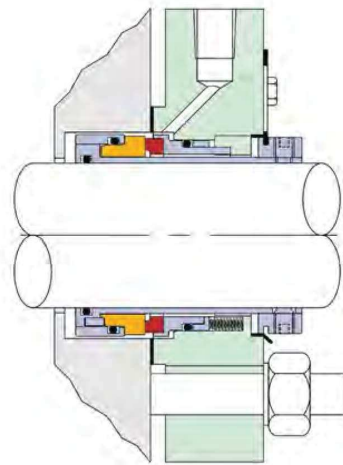
- Standard: High quality chemical grade carbon-graphite, solid nickel bound tungsten carbide, silicon carbide, and ceramic

O-ring Materials:

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

Operating Capabilities:

- Pressure: To 350 psig (24 bar g)
- Temperature: 32° to 400°F (0° to 205°C)
- Speeds: 7500 fpm (38 m/s)





STANDARD SINGLE CARTRIDGE SEALS

GEM - GENERAL SERVICE ECONOMICAL MODEL SEAL

The springs in the **GEM** are located in the seal gland and not subjected to centrifugal forces permitting this low-cost general service unit to operate on high PV factors. The cast gland reduces the cost of the seal and is ideal for installation on ANSI process pumps in pulp & paper, chemical processing, wastewater treatment, and wherever high speed applications are encountered

Stationary Design

The seal faces are squared 90° to the center line of the shaft preventing misalignment and allowing for better control of the parallel sealing gap eliminating axial adjustments that cause wear.

Cartridge-Mounted

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

Compact

The narrow cross-section allows for installation on stuffing boxes with minimal radial space without requiring modifications. This includes small ANSI pumps with 5/16" radial space.

Versatile

The slotted gland plate design allows the seal to fit a variety of stud and bolt circle diameters.

Hydraulically Balanced

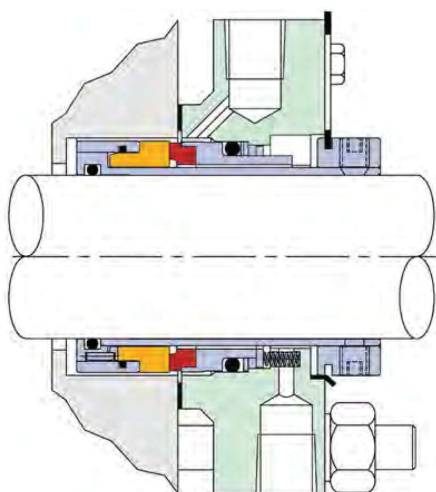
Internal balancing provides for operation in higher pressures and reduces hydraulic loads resulting in cooler operation and extended reliability. This balance reduces power consumption.

Isolated Multiple Springs

Multiple springs provide even mechanical loads for cooler operation and are isolated to prevent clogging from process fluids containing suspended solids.



GEM - SPECIFICATIONS



Metal Parts:

Standard metal parts and set screws: 316 SS
 Standard springs: Hastelloy[®] C

Face Materials:

Standard: High quality chemical grade carbon-graphite, solid nickel bound tungsten carbide, silicon carbide, and ceramic

O-ring Materials:

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

Operating Capabilities:

Pressure: To 350 psig (24 bar g)
 Temperature: 32° to 400°F (0° to 205°C)
 Speeds: 7500 fpm (38 m/s)





STANDARD DOUBLE CARTRIDGE SEALS

DTP - DOUBLE TANDEM PUMPER SEAL

The SEPCO® DTP is a multiple cartridge mounted seal design that is simple, rugged, and highly dependable yet cost less than most competitors' comparable repaired seals. It is suitable in all types of industries where leakage of hazardous or costly products cannot be tolerated and where positive lubrication is required from an external source without dilution of the pumped product.

Cartridge Mounted

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

Reciprocal Balanced

The inboard seal is hydraulically balanced to permit the seal to operate in either a double or tandem mode. This allows lubrication to the inboard seal faces without separation and leakage.

Pumping Ring with Tangential Drilled Flush Connections

This feature allows the DTP to remove destructive frictional heat from the double seal cavity for cooler operation and extended reliability and makes it ideal for use on closed-loop flush systems.

Clamped-In Mating Rings

The stationary seats are clamped in allowing for higher pressure conditions and are exposed to the flow of flush liquid aiding in heat transfer and cooler operation.

Versatile

The seal gland is slotted to provide versatility in mounting and machined for superior strength and corrosion resistance. Flush connections are located to facilitate piping from the side without trapping air in the double seal cavity and causing excessive frictional heat and rapid face wear.



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DTP - SPECIFICATIONS

Metal Parts:

Standard metal parts: 316 SS
Optional: Alloy 20, titanium, Hastelloy®, and low expansion alloys

Face Materials:

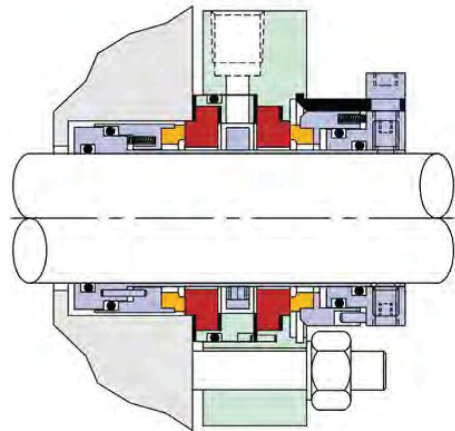
Standard: High quality chemical grade carbon-graphite and silicon carbide
Optional: Solid nickel bound tungsten carbide.

O-ring Materials:

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

Operating Capabilities:

Pressure: Inboard Seal: 350 psig (24 bar g) Pressure Differential
Outboard Seal: To 150 psig (10 bar g)
Temperature: Inboard Seal: To 400°F (205°C)
Outboard Seal: To 250°F (121°C)
Speeds: 5000 fpm (25 m/s)



800-633-4770





STANDARD DOUBLE CARTRIDGE SEALS

RBD - RECIPROCAL BALANCED DUPLEX SEAL

The SEPCO® RBD is a multiple cartridge mounted seal with springs mounted in the gland to reduce centrifugal forces and permit operation on high PV applications. The RBD is used where leakage of hazardous or costly products cannot be tolerated and where positive lubrication without product dilution is required.

Stationary Design

This design squares the seal faces 90° to the center line of the shaft preventing misalignment, giving better control of the parallel sealing gap and eliminating wear in secondary seal areas.

Cartridge Mounted

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

Versatile

The seal gland is slotted to provide versatility for mounting and machined for superior strength and corrosion resistance. The narrow cross-section inboard design allows for installation on stuffing boxes with minimal radial space.

Reciprocal Balanced

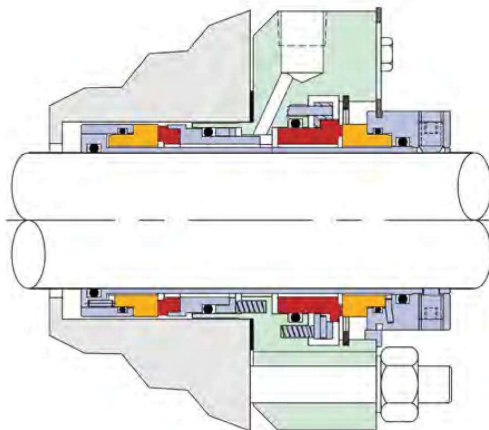
The inboard seal is balanced from both the product side as well as the flush side of the inboard seal faces. The seal can operate in either a tandem or double mode without face separation.

Multiple Springs

Multiple springs provide even mechanical loads for cooler operation and are isolated from the pumped product to prevent clogging. They are manufactured from Hastelloy® to provide superior corrosion resistance.



RBD - SPECIFICATIONS



Metal Parts:

Standard metal parts and set screws: 316 SS
 Springs: Hastelloy® C

Face Materials:

Standard: High quality chemical grade carbon-graphite, solid nickel bound tungsten carbide, ceramic, and silicon carbide

O-ring Materials:

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

Operating Capabilities:

Pressure: Inboard Seal: 350 psig (24 bar g) Pressure Differential
 Outboard Seal: To 150 psig (10 bar g)
 Temperature: Inboard Seal: To 400°F (205°C)
 Outboard Seal: To 250°F (121°C)
 Speeds: 7500 fpm (38 m/s)

