

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 centerline 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

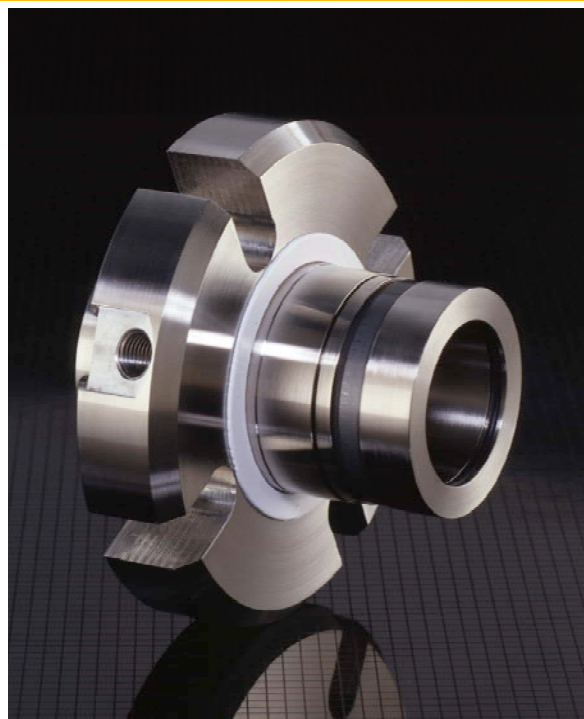
The seal gland is slotted to provide versatility for mounting and machined for superior strength and corrosion resistance. The narrow cross-section inboard design allows for installation on stuffing boxes with minimal radial space.

Reciprocal Balanced

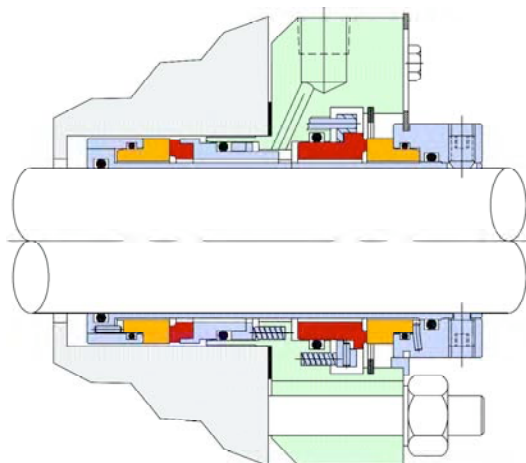
The inboard seal is balanced from both the product side as well as the flush side of the inboard seal faces. The seal can operate in either a tandem or double mode without face separation.

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)

SEPCO®

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