

Single, unbalanced, multi-spring pusher seal for general purpose applications

A simple, proven and dependable design features an open, rotating compression unit that imparts a turbulent flow of the process fluid which helps keep solids away from the seal faces and removes seal generated heat. The flexibly mounted insert compensates for misalignment to ensure seal face contact. Off-the-shelf availability in standard configurations for most chemical pumps.



Features and Benefits

Rotating Seal Ring

Self centers around the shaft independent of compression unit. Designed to withstand the harsh physical demands of cyclic operation or continuous duty. Multiple springs and drive pins evenly distribute the load. Available in a wide range of materials; in fact, this part can be built to stand up to nearly any known chemical.

• Compression Unit

Sturdy, robust design. Built to perform in aggressive, even abrasive, fluids.

Available in any machinable metallurgy.

· Shaft Packing -

Completely interchangeable materials without changing other components.

Available in a wide range of configurations and materials for compatibility with all process fluids and process temperatures.

· Stationary Insert-

Flexibly mounted to prevent distortion.

· Insert Mounting-

Dimensionally interchangeable for versatility in secondary seal material selections.



Available Materials of Construction

Metal Components

304, 316 or 20 Stainless Steel Alloy 400 Alloy C-276 or B-2 Titanium Nickel Tantalum

Seal Rings or Inserts

Tungsten Carbide Silicon Carbide Peramic Durchrome Bronze No. 5 Carbon

Secondary Seals

(shaft packing and insert mounting)

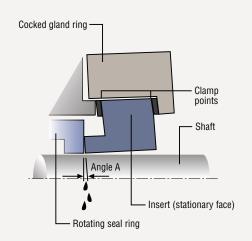
Fluoroelastomer
Buna N
Ethylene Propylene
Rubber (EPR)
Perfluoroelastomer
Ethylene Propylene
Terpolymer (EPT)
Neoprene
PTFE

Operating Parameters

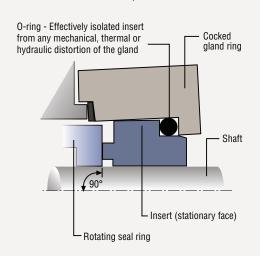
Maximum Pressure: Up to 20 bar (300 psi)
 Temperature: cryogenics to 260°C (500°F)
 Speed: Up to 23 mps (4500 fpm)

Here's how the RO seal self-compensates for any installation misalignment or gland irregularities

With a clamped insert, a cocked gland ring can cause seal faces to misalign (angle A) and leakage can occur.



With Flowserve's flexibly mounted insert, the gland ring can be cocked and the insert remains square with the axis of the shaft.



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