

Flow Solutions Division

Durametallic



A simple, proven and rugged design with dependability that has made it a favorite choice of maintenance personnel for over 40 years to seal ANSI chemical pumps. Heavy cross sections of the rotary components resist high levels of corrosion. Utilizing a simple rugged open rotary unit design, aggressive, abrasive and viscous fluids can be sealed easier than with other ANSI seal types that incorporate shrouded spring rotaries. The open rotating spring compression unit imparts a turbulent flow pattern of the process fluid or barrier fluid to aid in keeping solids from packing up around the seal faces and improves in removal of seal face generated heat. The RO series is available off the shelf in standard configurations for all of the popular chemical pumps offered today.

Features/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 insecondary seal material selections.



BW Seals Durametallic Seals Pacific Wietz Seals Pac-Seal

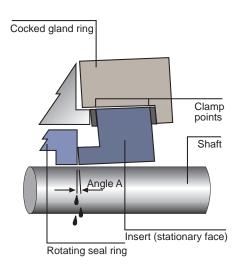
Operating Parameters

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

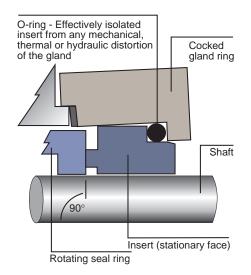
Available Materials of Construction

Metal Components:	Seal Rings / Inserts:	Secondary Seals (shaft packing and insert mounting):		
304, 316 or 20 Stainless Steel Monel Hastelloy B or C Titanium	Tungsten Carbide Silicon Carbide Peramic Durchrome	Elastomers Viton Buna N Ethylene Propylene	Ethylene Propylene Terpolymer (EPT) Neoprene	
Nickel Tantalum	Bronze No. 5 Carbon	Rubber (EPR) Kalrez	PTFE Duraflon V-rings Duraflex (use only as	

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.



insert mounting)

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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