



Durametallic Seals

CRO

An economical, single coil spring, friction drive seal for use in ANSI chemical pumps with packing box seal chambers. Minimum number of seal components with heavy cross sections simplify installation and resist high levels of corrosion. Double CRO design has no wetted metals and a common spring. The CRO 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. Designed to withstand the harsh physical demands of cyclic operation or continuous duty. Available in a wide range of standard materials.

Single Coil Spring

Robust spring resists clogging and chemical attack. CRO-P option adds positive rotor drive through a drive collar and pin arrangement.

Shaft Packing

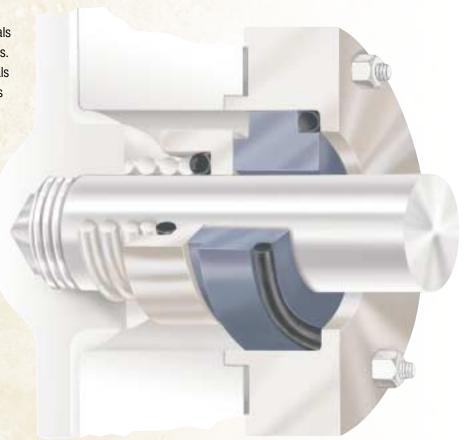
Completely interchangeable materials without changing other components. Available in a wide range of materials for compatibility with process fluids and process temperatures.

Stationary Insert

Flexibly mounted to prevent distortion.

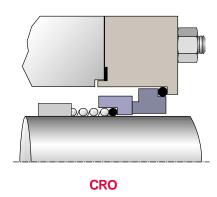
Insert Mounting

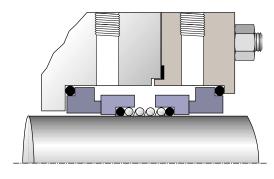
Dimensionally interchangeable for versatility in secondary seal materials selections.





BW Seals Durametallic Seals Pacific Wietz Seals Pac-Seal





Double CRO

Available Materials of Construction

Coil Spring	Seal Rings or Inserts	Secondary Seals
304, 316, or 20 Stainless Steel	Tungsten Carbide	Fluoroelastomer
Alloy C-276 or B-2	Silicon Carbide	Buna N
XM-19 or 17-7 PH Stainless Steel	Peramic	Ethylene Propylene
Titanium	Durchrome	Rubber (EPR)
Alloy 400	Bronze	Perfluoroelastomer
	No. 5 Carbon	Ethylene Propylene Terpolymer (EPT)
		Neoprene
		PTFE

Operating Parameters

· Pressures: Up to 300 psi (20 bar)

CRO: -40° F to 120° F (-40° to 49° C) Temperatures:

CRO-P: -40° F to 500° F (-40° to 260° C)

 Shaft Speeds: Up to 4500 fpm (23 m/s)

0.375" to 3.500" (9.5mm to 89mm) Sizes:

Note: For sizes and conditions not listed, contact your local Flowserve Representative.

The information and specifications presented in this product brochure are believed to be accurate, but are supplied for information purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or quarantee, express or implied, with respect to the product. Although Flowserve Corporation can provide general application quidelines, it cannot provide specific information for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper selection, installation, operation and maintenance of Flowserve products. Because Flowserve Corporation is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice.

Primary Worldwide Flow Solutions Division Locations Licensees, authorized agents, and affiliated companies located worldwide. **United States** Netherlands Argentina Australia Marayong NSW Kalamazoo, MI Phone 616-381-2650 Edmonton, Alberta Phone 780-463-7958 Scarborough, Ontario Phone 416-292-2877 Roosendaal Villa Martelli Phone 61-2-8822-7100 Fax 61-2-9679-7511 Phone 31-165-581400 Phone 54-11-4790-6800 Fax 616-381-8368 Fax 780-450-1241 Fax 416-292-5190 Fax 31-165-552622 Fax 54-11-4709-7072 Singapore Mexico Brazil Japan Germany Phone 65-746-4318 Sao Paulo Phone 55-11-4066-8600 Phone 49-231-6964-0 Phone 52-2-461-6791 Phone 81-720-85-5571 Fax 65-747-1963 Fax 52-2-461-6847 Fax 55-11-4066-7014 Fax 81-720-85-5575 Fax 49-231-6964-248 www.flowserve.com **ISO 9000** REV 10/00 USA

Certified