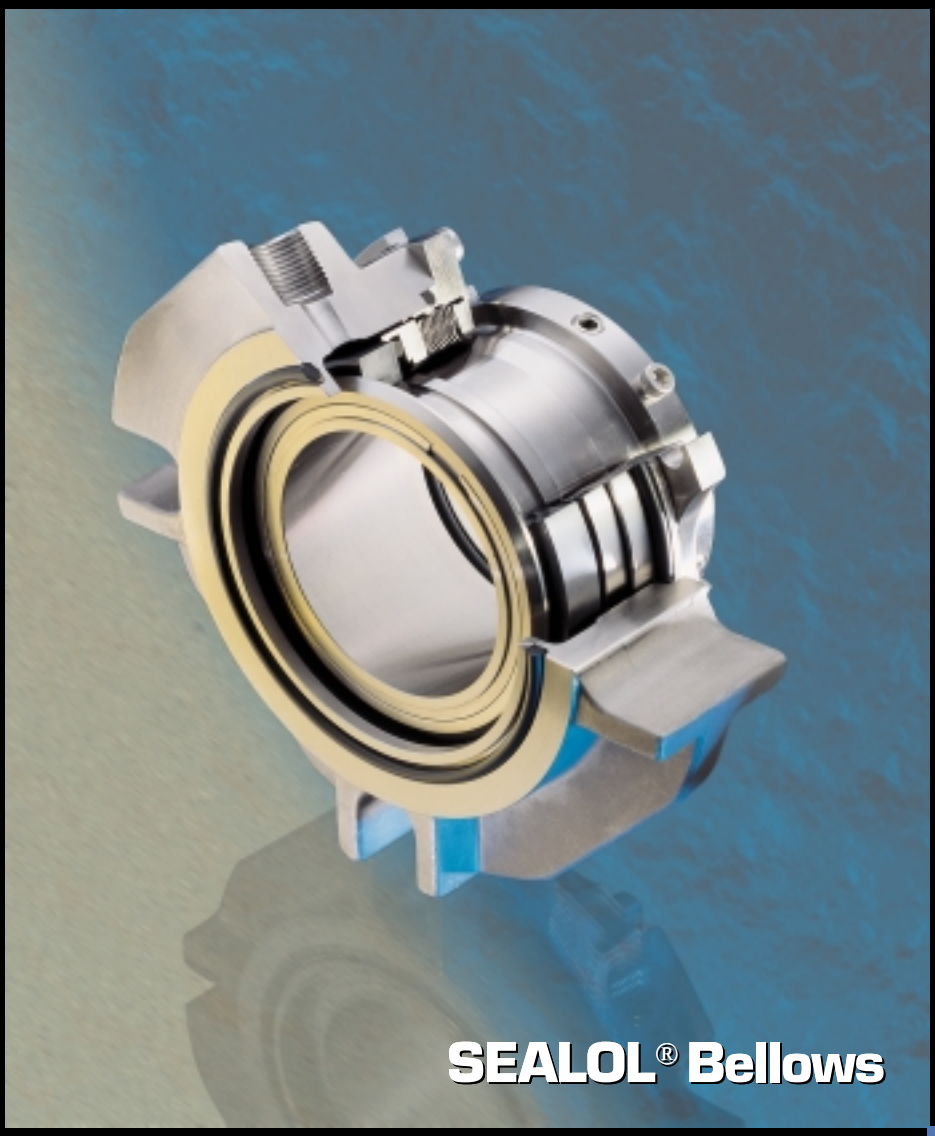
John Crane

TYPE 613



Wet/Dry
Single Welded Metal Bellows
Cartridge Seal

TYPE 613

SEALOL® Bellows

Wet/Dry Cartridge Seal

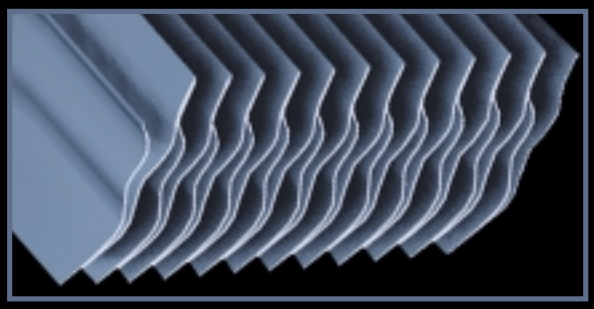
The Type 613 is a single Sealol bellows cartridge seal designed to operate reliably in services where short periods of dry running conditions occur.

Application Versatility

The Type 613 is available with a Hastelloy®-C bellows assembly, an Alloy 20 gland, and a wide range of elastomers to best suit your particular application.

Optimized Bellows Design Assures Superior Performance

Sealol's welded metal bellows design is manufactured with a 45° tilt edge at the bellows inside diameter to disperse stresses in the individual bellows plates and to maximize their operating life.



Because of this unique bellows design, the Type 613 is able to handle the demanding requirements for cycles of both wet and dry running.

Fits the Most Popular Pumps

The Type 613 fits the most popular standard and enlarged seal chamber ANSI, DIN, and metric pumps.

Simple Cartridge Design

Designed as a self-contained, preset cartridge seal, its trouble-free, slide-on-and-tighten design makes mounting simple, fast, and accurate.

Best Repair Program in the Business

Regardless of the returned seal's condition, John Crane will provide you with a completely renewed Type 613 in top operating condition for approximately half the cost of a new one.

Outstanding Warranty

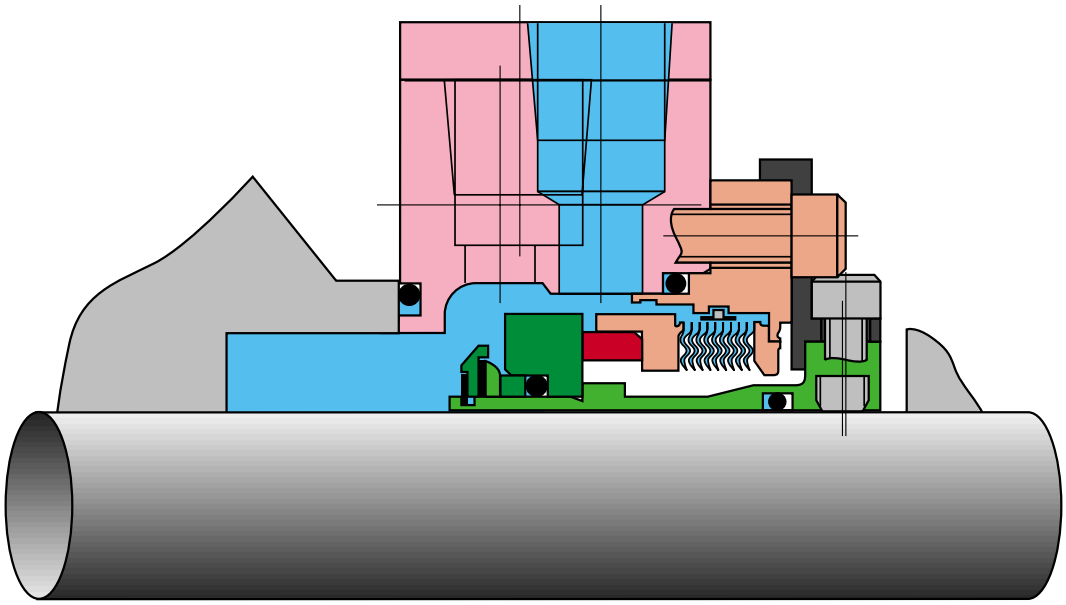
John Crane's warranty provides complete seal coverage for 90 days. Should your new Type 613 seal require replacement within the warranty period, for any reason, it will be repaired or replaced free of charge.

Proven Dry Sliding Technology

Using the time-tested and proven dry sliding technology from our Emission Containment Seal (ECS™), the Type 613 is ideal for processes that periodically experience dry running conditions. Applications involving batch processes, tank farms, loading and unloading platforms, or other intermittent processes are perfect for the Type 613 cartridge seal.

Precisely controlled, specially designed bellows and optimal face materials are used in the Type 613 seal. As a result, the Type 613 is able to operate effectively during periods of dry running, and successfully return to sealing liquid when normal running conditions are restored.

An expensive pump and seal overhaul of your conventional wet seals, due to occasional dry running, is no longer required.



Materials of Construction

Bellows:	Hastelloy-C
Gland:	Alloy 20
Sleeve:	316SS or Alloy 20 (optional)
Stationary Seal Face:	Carbon
Rotating Seal Face:	Sealide®
Elastomers:	Viton®, EPR, Teflon® Encapsulated Viton, Chemraz®, and Kalrez®

Performance Capabilities*

Pressure:	Vacuum to 10 bar/150 psig Dry running Mode 1 bar/15 psig maximum
Temperature:	-75°C/-100°F to 200°C/400°F (depending on elastomer specified)
Speed:	Up to 25 smps/5,000 sfpm

* *May vary depending on application requirements. Specifications subject to change without notice. Consult your John Crane representative for recommendations.*

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For complete technical data contact John Crane or your nearest John Crane representative.

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Engineered Sealing Systems

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If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use.
In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice.

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Printed 4/98-15K
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