



Easy-to-Install General-Purpose Cartridge Seal



EZ-1[®]
Cartridge-Mounted Bellows Seal

EZ-1


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Technology

With over 25,000 field installations, the performance-proven EZ-1 general-purpose cartridge seal is ideal for a broad range of sealing applications. This standard off-the-shelf bellows cartridge seal provides all the superior performance benefits inherent in Sealol® bellows seals.

Sealol Bellows Design



Since the 1960's, our experience in diverse industries, such as chemical, pulp & paper, municipalities, utilities, pharmaceutical, and food processing, has proven the soundness of Sealol's welded metal bellows design. Extensive computer modeling and testing have assured the bellows performance through all operating parameters.

Unlike other designs, bellows technology eliminates dynamic O-ring hang-up caused by process contamination, thermal gradients, or material deficiencies. Consequently, the bellows design enhances seal reliability.

Applications

The EZ-1 universal package adapts easily to most media. It is shipped with a fluorocarbon O-ring in the sleeve. To give maximum flexibility in order to seal a wide range of applications, EPR & PTFE encapsulated fluorocarbon sleeve O-rings are provided. Simply use the O-ring that is most appropriate for your specific application.

- Chemical
- Pulp & Paper
- Municipalities
- Food Processing
- Utilities
- Pharmaceutical



Compact Design

The EZ-1's compact design allows it to fit the most popular inch and metric pumps without modification. It is the ideal replacement for packings or seals.

Available with Hard Faces for Abrasive Media

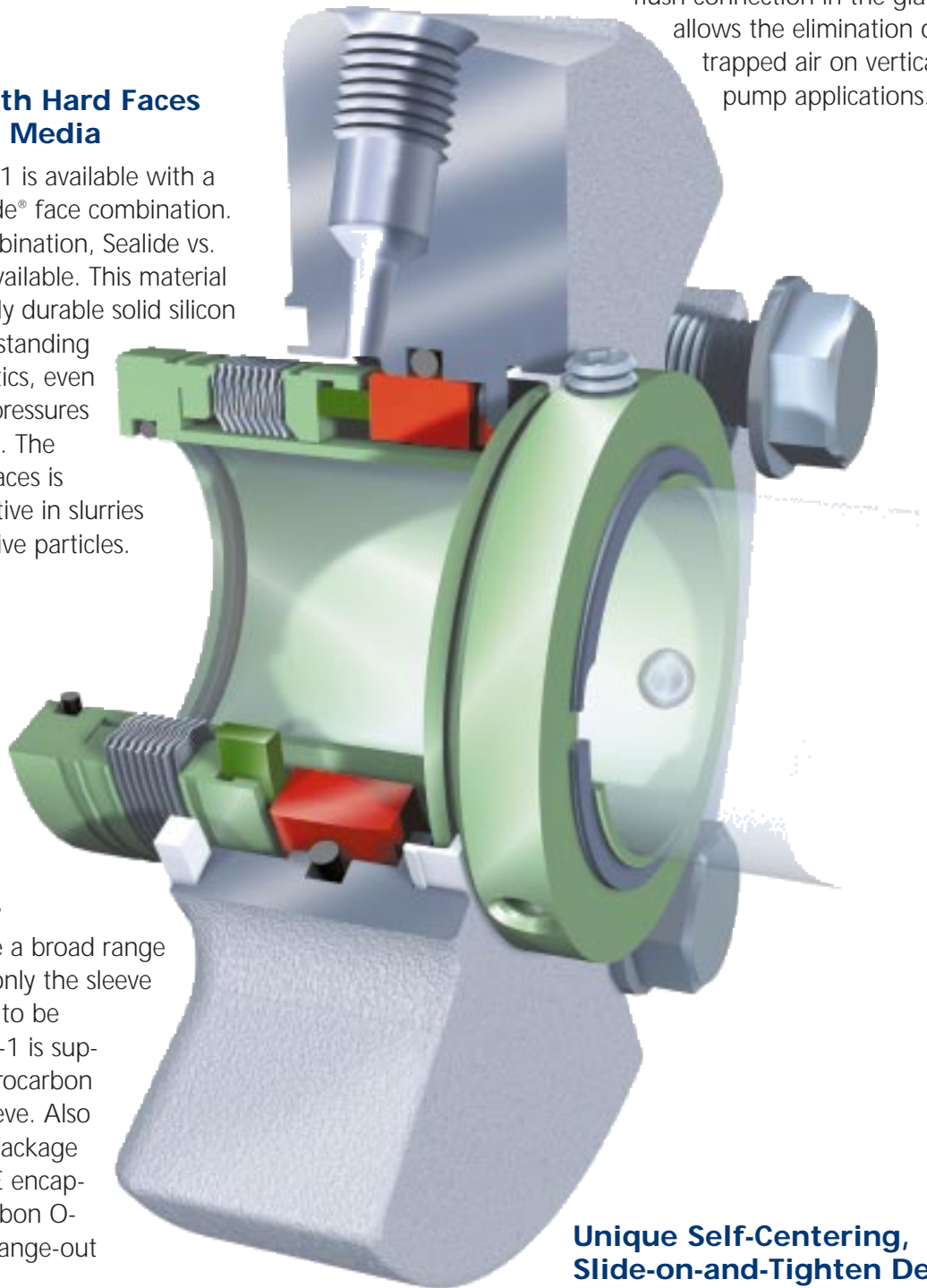
The standard EZ-1 is available with a Carbon vs. Sealide® face combination. A hard-face combination, Sealide vs. Sealide, is also available. This material is an exceptionally durable solid silicon carbide with outstanding wear characteristics, even at high contact pressures and shaft speeds. The EZ-1 with hard faces is particularly effective in slurries containing abrasive particles.

Three Sleeve Elastomers Provided to Seal a Wide Variety of Applications

To accommodate a broad range of applications, only the sleeve elastomer needs to be changed. The EZ-1 is supplied with a fluorocarbon O-ring in the sleeve. Also included in the package are EPR and PTFE encapsulated fluorocarbon O-rings, making change-out

Flush Port Versatility

The EZ-1 incorporates the versatility of a flush port. This feature allows the introduction or recirculation of fluid at the seal faces to provide lubrication, cooling, and cleansing action. The flush connection in the gland also allows the elimination of trapped air on vertical pump applications.



Unique Self-Centering, Slide-on-and-Tighten Design

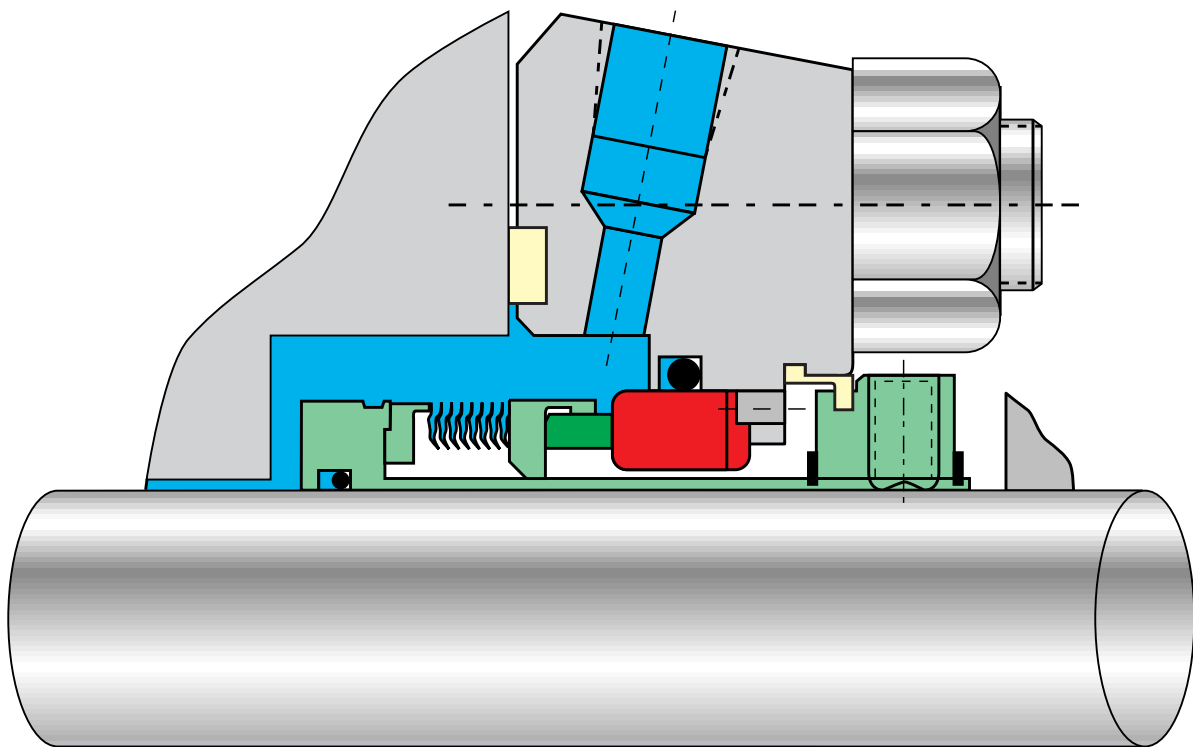
Installation is fast and easy. There are no prints to read, lines to scribe, or clips to remove. The EZ-1 is the simplest cartridge seal on the market to install.

 **Rotating Parts**

 **Stationary Parts**

Materials of Construction

- Adaptive Hardware: 316 Stainless Steel
- Metal Bellows: Alloy 20
- Seal Faces: Carbon vs. Sealide (sintered Silicon Carbide) or Sealide vs. Sealide
- Gland Gasket: Glass-Filled PTFE
- Mating Ring Elastomer: PTFE Encapsulated Fluorocarbon
- Sleeve Elastomer: Fluorocarbon O-ring
- Additional Sleeve
Elastomers In Package: EPR & PTFE Encapsulated Fluorocarbon



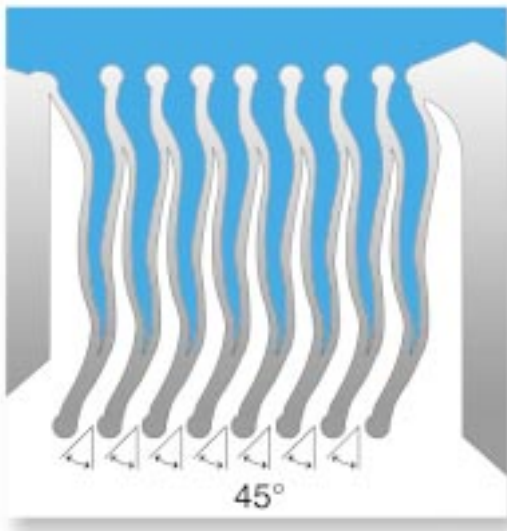
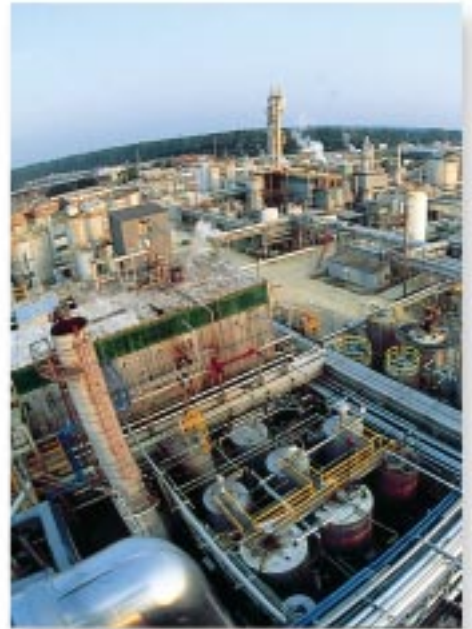
EZ-1 Enlarged Seal Chamber Version

Performance Capabilities

- Process Pressure: Vacuum to 20 bar / 300 psi
- Process Temperature: -30°C to 200°C / -20°F to 400°F
- Shaft Speed: 25 m/s / 4500 sfpm

Benefits of the EZ-1

- Flush port versatility
- Universal package adapts easily to most media
- Unique design minimizes the number of O-rings
- Available with hard faces for abrasive media
- Only one moving part...the Bellows
- Eliminates O-ring hang-up problems associated with other seal designs
- Enlarged seal chamber version available
- Unique self-centering, slide-on-and-tighten design
- Corrosion-resistant Alloy 20
(Alloy C-276 available upon request)
- Outstanding warranty*
- Best repair program in the business*



EZ-1 Bellows Advantages

- Low face load
- Lower heat generation
- Low face wear
- Lower power consumption
- Pressure-balanced
- No small springs to clog
- Self-cleaning design

*Contact your John Crane representative for details.



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