

# GF-200

Dual, non-contacting, pusher, gas barrier design is used in applications where no emissions of hazardous pumped products can be tolerated. An inert gas barrier, such as nitrogen, is utilized to eliminate contamination or dilution of the process system, which is common with liquid barriers. Advanced Pattern Groove System faces insure low speed lift-off, low gas leakage and no face contact. Surpasses performance of single and dual liquid seals and sealless pumps, particularly with regard to lower power consumption and increased reliability during off-design pump operation.

## Features/Benefits

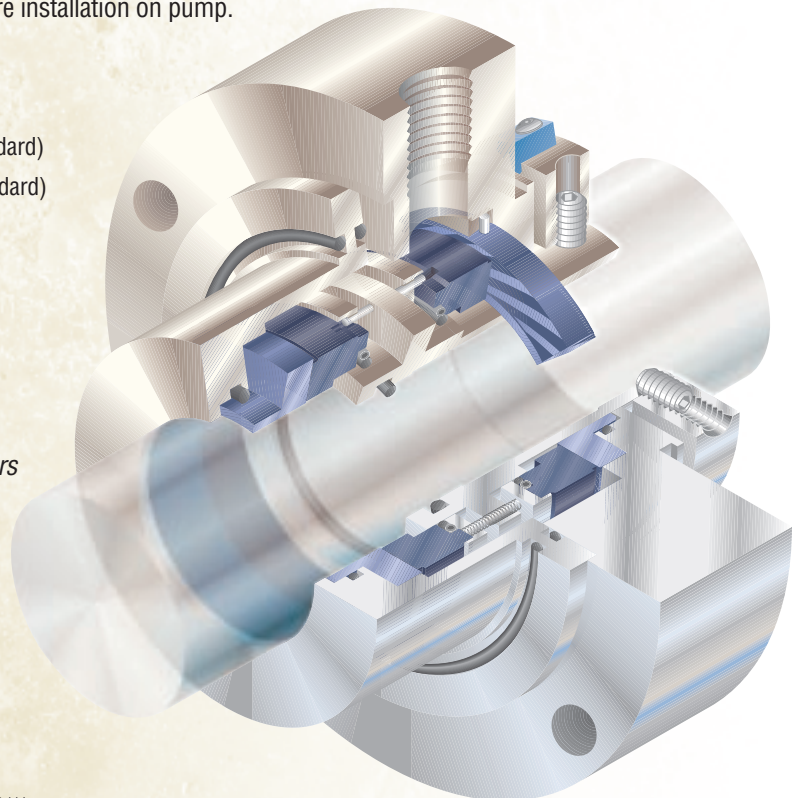
- True zero leakage dual seal eliminates the requirement of VOC fugitive emission monitoring.
- Non-contacting seal faces use APGS<sup>1</sup> technology to reduce wear and extend seal life.
- Utilizes patented LoDrag<sup>TM2</sup> o-ring technology.
- Eliminate liquid barrier supply systems and their maintenance problems.
- Seal works with a simple gas barrier support system and inert gas source.
- Reduced horsepower consumption during start-up and running operation.
- Factory preset cartridge design simplifies assembly on pump.
- Bench testable design allows for field testing before installation on pump.

## Materials of Construction

- Housing and gland ring: 316 Stainless Steel (standard)
- Sleeve and sleeve collar: 316 Stainless Steel (standard)
- Rotors: Premium resin grade carbon (standard)  
Direct sintered silicon carbide and  
Nickel-bound tungsten carbide (optional)
- Stators: Direct sintered silicon carbide (standard)  
Nickel-bound tungsten carbide (optional)
- Elastomers: Fluoroelastomers, EPR, and  
perfluoroelastomers (*other elastomers  
are also available*)

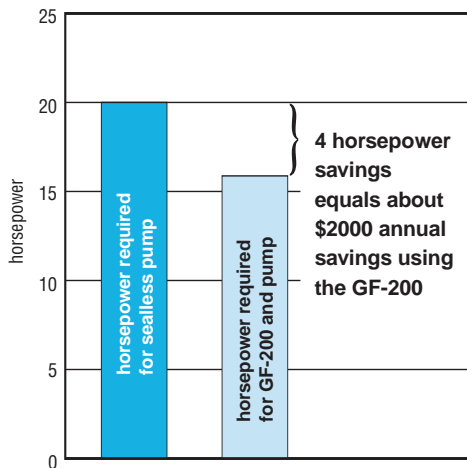
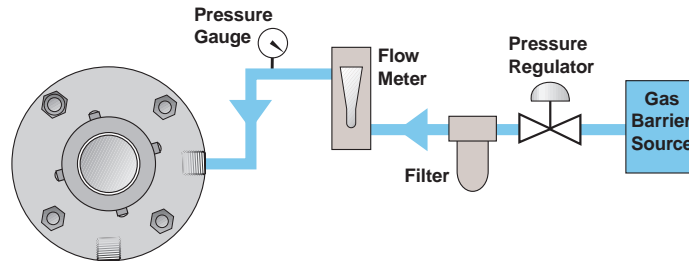
## Operating Parameters

- Pressure: To 500 psig (3450 kPa)
- Temperature: To 500°F (260°C)
- Speed: 250 to 5000 fpm (1.3 to 25 m/s)
- Standard Sizes: 1" to 6" (25 to 152 mm)



**Simple seal installation and piping**

The preset cartridge design makes installation of the GF-200 easy by eliminating the need for measuring, centering or special tools. After sliding it on the shaft, just tighten the gland bolts and set screws, remove the centering tabs and it is ready for equipment start-up. Piping for the GF-200 is much simpler than with liquid barrier supply systems. Just tap into a barrier gas header and install a pressure gage, flow meter and a regulator.



**Decrease operating costs in a conventional pump**

The advanced face design of the GF-200 means a conventional pump will require about 25% less horsepower to achieve the same flow and head than with a sealless pump. The GF-200 is designed to provide leakfree performance under conditions that can cause sealless pumps and conventional liquid barrier dual seals to fail.

*Comparison based on pumps of similar flow and head operating 365 days a year, 24 hours per day*

**Optional gas barrier control panel puts everything at your fingertips**

A compact, self-contained, easy to use auxiliary control system for the GF-200 is also available from Flowserve. It includes all controls for reliable, efficient seal operation and eliminates the time, expense and hassle of installing each component separately.



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