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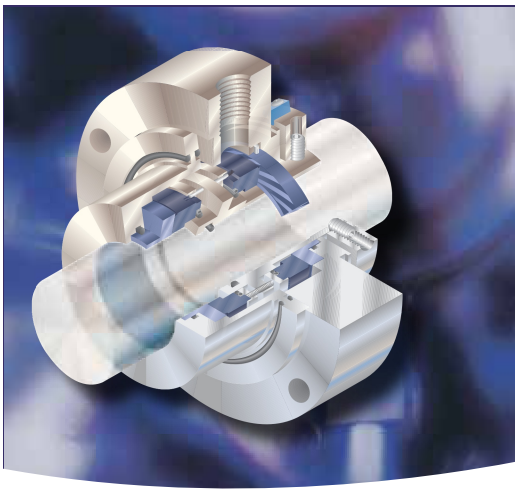
GF-200 Series
Dual non-contacting gas barrier seals

GF-200 dual seals are non-contacting, gas barrier seals used in applications where no emissions of hazardous pumped products can be tolerated. Advanced Pattern Groove System provides low speed lift-off, low gas leakage and no face contact.



Features and Benefits

- Dual seal pressurized with an inert gas barrier operates with zero process emissions to satisfy environmental monitoring requirements.
- Silicon carbide seal faces use APGS Precision Face Topography to separate the faces with a stiff, thin gas film that prevents wear and extends seal life.
- The LoDrag™ O-ring technology provides consistent dynamic O-ring squeeze to reduce drag and maintain proper seal face tracking.
- Seal faces are optimized by geometry, materials, spring loads, and drive mechanisms to remain flat under all operating conditions and deliver long-term, reliable performance.
- Non-contacting seal faces require very low power consumption during start-up and running operation.
- Factory preset and tested cartridge design simplifies installation on the equipment for a quick and trouble-free start-up.
- Gas barrier sustained by a Plan 74 support system is simple to operate and reduces the maintenance, costs, and complexity associated with liquid barrier systems.

Operating Parameters

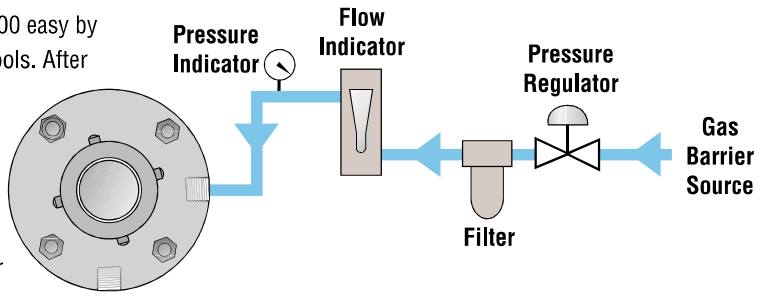
Pressure	Up to 34.5 bar (500 psig)
Temperature	-40 to 260°C (-40 to 500°F)
Surface Speed	1.3 to 25 m/s (4.2 to 83.3 fps)
Shaft Sizes	25.4 to 152 mm (1.000 to 6.000 inch)

Materials of Construction

Metal Components	316 Stainless Steel, Alloy C-276, Alloy 20
Rotating Face	Premium resin grade carbon, Direct sintered silicon carbide
Stationary Face	Direct sintered silicon carbide
Elastomers	Fluoroelastomer, Perfluoroelastomer, EPDM

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, tighten the gland bolts and set screws, remove the centering tabs and the seal is ready. 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 indicator, flow indicator, filter, and a regulator. As soon as the gas pressure is set 1.7 to 3.4 bar (25 to 50 psi) higher than the operating seal chamber pressure, the GF-200 is ready to run.

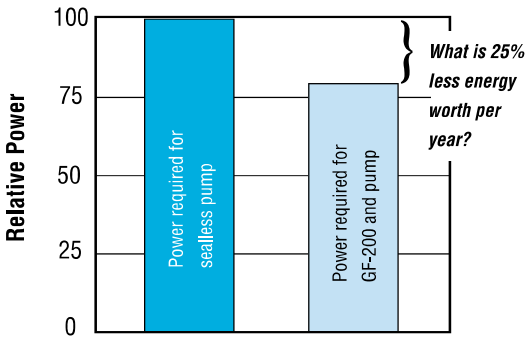


Optional gas barrier control panel puts everything at your fingertips

A compact, self-contained, easy to use Plan 74 support system for the GF-200 is also available from Flowserve. It includes all controls for reliable, efficient seal operation and eliminates the time and hassle of installing each component separately.

Decrease operating costs in a conventional pump

The APGS Precision Face Topography of the GF-200 means a conventional pump will require about 25% less power to achieve the same flow and head than with a sealless pump. The GF-200 is designed to provide continuous performance under conditions that can cause sealless pumps to fail, such as dry running.



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