



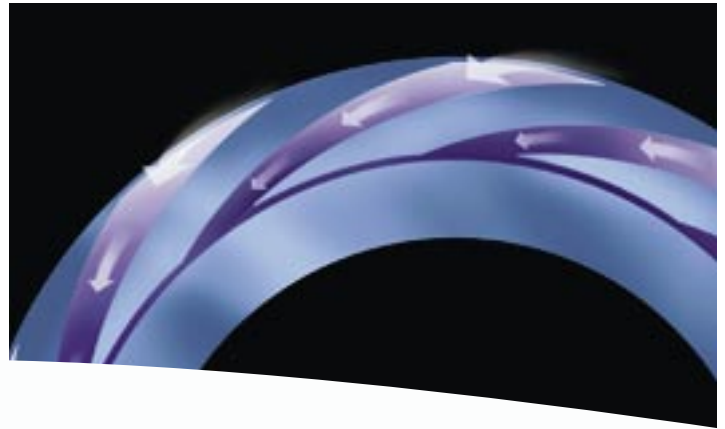
GX-200
Gas barrier seal

for standard bore seal chambers



Experience In Motion

The GX-200 utilizes advanced non-contacting precision face topography for outstanding performance in a wide variety of applications.



Exclusive non-contacting face technology extends equipment life and increases energy savings

The GX-200 is a gas barrier seal that offers zero emissions, increased energy savings, and increased reliability. It is specifically engineered to fit standard or small bore seal chambers without requiring pump modifications.

The GX-200 combines these engineering advances:

- Proven Advanced Pattern Groove (APG) precision face topography for non-contacting seal face operation
- Reliable metal bellows design for long life operation
- Simple installation of a cartridge design

Reduce operation and maintenance costs

- Provides zero product emissions performance even under off-design or dry running conditions that cause sealless pumps to fail.
- Eliminates the costs of maintaining a liquid barrier system and eliminates barrier fluid contamination of the process.
- Delivers cost and performance advantages over sealless pumps.

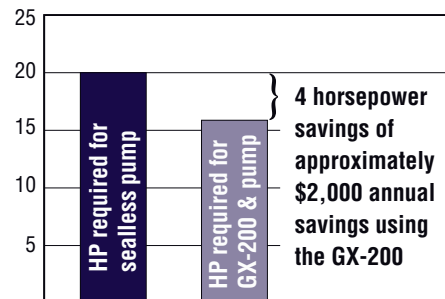
The GX-200 is designed for applications in the chemical processing, hydrocarbon processing, pulp and paper, pharmaceutical and food processing industries. The pressurized dual seal configuration provides outstanding performance in processing environments and helps facilitate compliance with hazardous emissions regulations.

Unique face pattern is key to zero emissions and long life

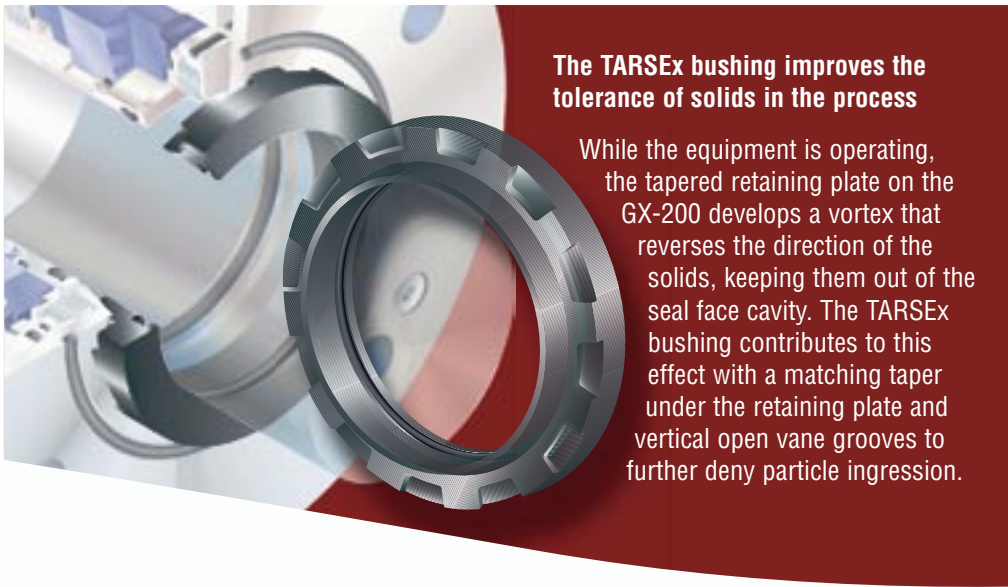
The exclusive, patented¹ face pattern contains special shallow grooves to provide both hydrostatic and hydrodynamic lift of the seal faces. This results in reduced energy consumption during pump start-up and operation, and no seal face wear.

Lowest operating cost solution in conventional pumps

Sealless pumps require approximately 25% more horsepower to achieve the same flow and head as a conventional pump sealed with a GX-200.

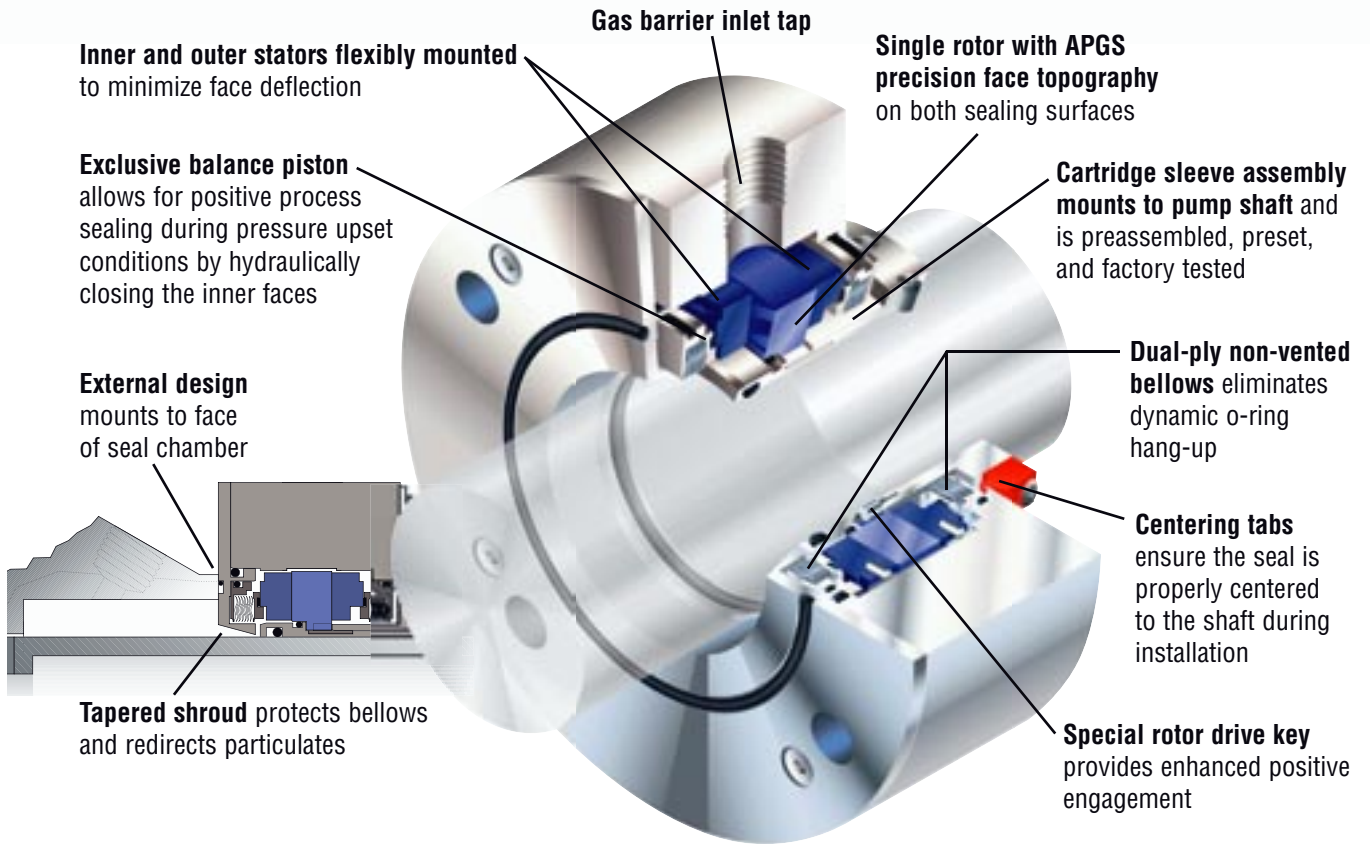


Comparison based on pumps of similar flow and head operating 365 days a year, 24 hours a day.



The TAREx bushing improves the tolerance of solids in the process

While the equipment is operating, the tapered retaining plate on the GX-200 develops a vortex that reverses the direction of the solids, keeping them out of the seal face cavity. The TAREx bushing contributes to this effect with a matching taper under the retaining plate and vertical open vane grooves to further deny particle ingress.



Materials of Construction

- Stator Face:** Premium Resin Grade Carbon (standard)
Alpha Sintered Silicon Carbide
- Rotor Face:** Alpha Sintered Silicon Carbide
- Metal Parts:** 316 Stainless Steel (other metalluriges available)
- Secondary Seals:** Fluoroelastomer (standard)
Perfluoroelastomer (optional)
- Bellows Capsules:** Hastelloy C² (standard)
Inconel[®] (optional)

Standard Operating Limits

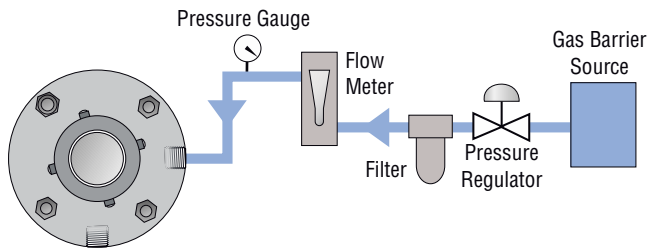
- Pressure:** Full vacuum to 200 psi (14 bar)
- Temperature:** -40 to 500°F (-40 to 260°C)
- Speed:** 41.7 ft/s (12.7 m/s)
- Sizes:** 1.000 - 3.000 inch
(25 mm - 75 mm)

2 Hastelloy is a registered trademark of Haynes international, Inc.
3 Inconel is a registered trademark of Inco Alloys



Easier to install and maintain than closed-loop liquid barrier seals

Unlike complicated liquid barrier supply systems, the clean gas supply system required for the GX-200 is simple to install and maintain. Just tap into a gas supply header and install a pressure regulator, filter, flow meter, and pressure gauge. Because the gas is dead-ended in the seal, no purge or continuous flow-through is needed.



An optional gas barrier control panel is available for the GX-200. This compact, self-contained, easy-to-use unit includes all controls necessary for simple, efficient seal operation. It also eliminates the time, expense and hassle of installing each component separately.



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