

DRY GAS, NON-CONTACTING DOUBLE CARTRIDGE SEAL

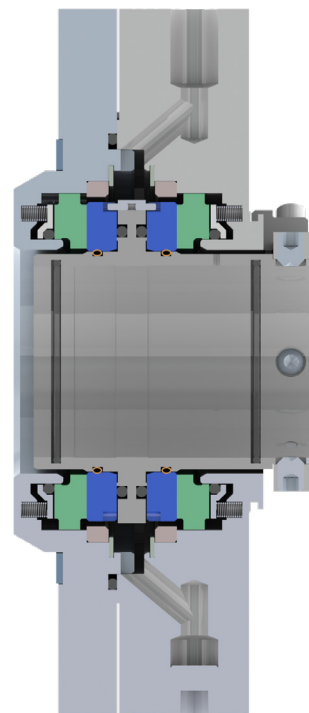
For Industrial Hydrocarbon, Chemical, and High-Purity Applications

With the **Flexaseal Style FGS**, your industrial process pumps run cooler, cleaner, and longer; all without the maintenance burden of liquid barrier systems.

WHY THE FGS?

- **Extended MTBR:** non-contacting faces eliminate friction and wear.
- **Run-dry tolerant:** faces generate no heat and require no cooling.
- **Assured containment:** clean, inert nitrogen barrier gas prevents cross-contamination and external emissions.
- **Low leakage rates:** keep nitrogen consumption down, and minimize gas introduced to the process.
- **Energy savings:** non-contacting faces result in lower power consumption.

A gas panel support system provides clean, regulated nitrogen to the Style FGS, maintaining the pressure differential for non-contact sealing and replacing complex liquid barrier systems with a simpler solution.



Typical Support Plan: 74

MATERIALS OF CONSTRUCTION

Rotary Faces	Sintered Silicon Carbide, Tungsten Carbide
Stationary Faces	Al Carbon
Elastomers	FKM, EPDM, TFEP, Buna, Neoprene, FFKM
Springs	Hastelloy C276™

OPERATING PARAMETERS

Max Temperature	390 °F (200 °C)
Min Barrier Gas Pressure	60 psi (4.1 bar)
Max Barrier Gas Pressure	400 psi (27.6 bar)
Min Barrier Gas Pressure Above Process	45 psi (3.1 bar)
Max Speed	5,000 fpm (25.4 m/s)
Min Rotational Speed	1,200 RPM

*Max temperature / pressure / speed indicate operating extremes independently and do not imply the seal will function at these extremes at the same time. Contact Flexaseal if in doubt.

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DESIGN FEATURES & BENEFITS

Stationary Multi-Spring Design for improved stability at high speeds.

Springs Stay Clean outside of product.

No product contamination!

Load-Balanced Seal Rings for high-pressure operation.

Dual Mating Ring Design improves safety and reliability.

No fugitive emissions!

Compact design fits a wide variety of common process equipment.

Bi-Directional Laser-Etched Grooves on mating faces generate high pressures in the sealing interface to overcome closing forces.

