



GSL Series

Non-contacting containment seals

GSL Series seals are non-contacting gas seals for dry running vapor containment and full pressure wet backup sealing in light hydrocarbon, crude oil, and hazardous services. GSL seals use wave pattern technology to eliminate wear and are fully compliant with API 682 / ISO 21049 Type A, Arrangement 2 requirements.



Features and Benefits

- Silicon carbide seal face utilizes Flowserve Precision Face Topography with a patented, bi-directional wave pattern that narrowly separates the seal faces for long-term, reliable performance.
- Fitted with a contacting or non-contacting inboard seal, the low emission design helps meet the most stringent emissions requirements, especially in light hydrocarbon services with a vapor disposal system back pressure below 25 psi (1.7 bar).
- Unpressurized containment seal operation may include support system Plans 72, 75, 76 for simplified maintenance.
- High and low pressure liquid backup seal capability allows for safe and convenient equipment shut down if the primary seal fails at pressures up to 600 psi (41.4 bar).
- Minimal inventory is required to reconfigure a GS seal in an existing dual seal and upgrade to non-contacting wave face reliability.
- Cartridge assembly simplifies installation for a quick and trouble-free start-up.
- Remote performance monitoring is available within the standard piping plans to report status of the primary seal and reduce downtime.
- Available as a single seal for equipment such as low pressure blowers and vertical sump pumps where dry running and low emissions are required.

Operating Parameters

Pressure	Up to 600 psi (41.4 bar)
Temperature	-40 to 400°F (-40 to 204°C)
Specific Gravity	0.45 liquid and higher
Surface Speed	5 to 100 fps (1.5 to 30.5 m/s)
Shaft Sizes	1.000 to 6.000 inch (25.4 to 152.4 mm)

Materials of Construction

Metal Components	316 Stainless Steel, Alloy C-276, Alloy 20
Rotating Face	Carbon
Stationary Face	Silicon Carbide
Gaskets	Fluoroelastomer, Perfluoroelastomer
Springs	Alloy C-276

