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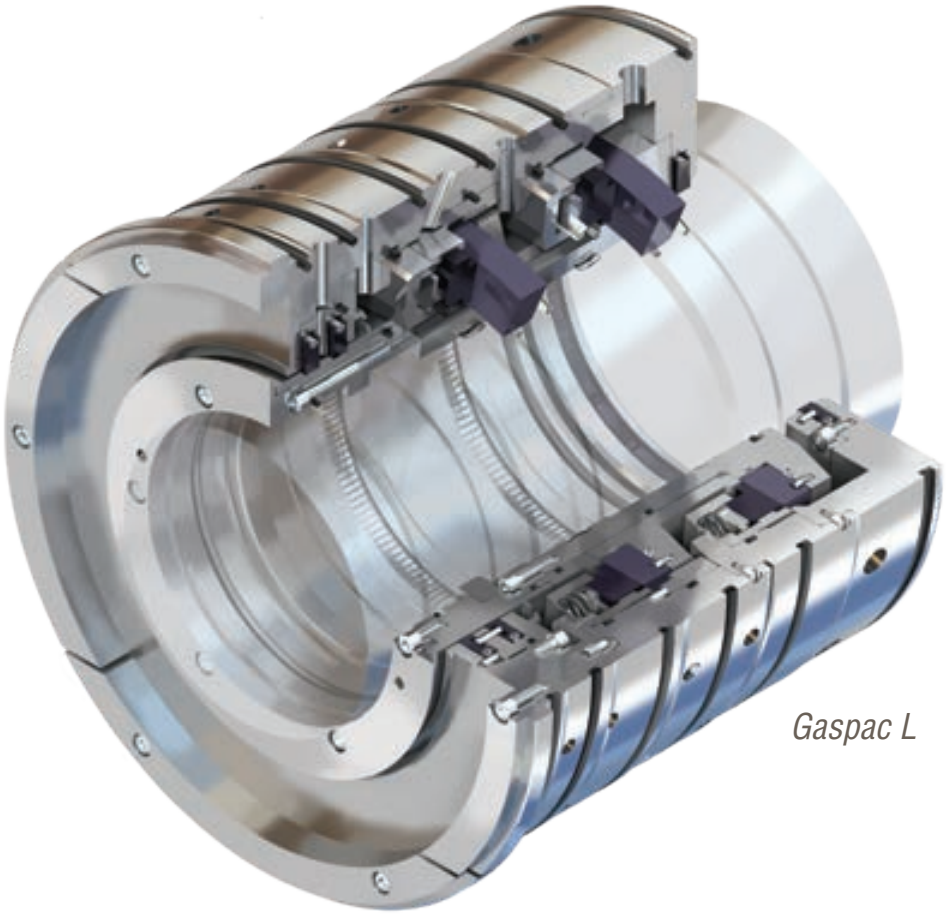

Gaspac L

COMPRESSOR SEALS AND SYSTEMS

Our Gaspac, Circpac, and Turbopac seals have earned their reputation as the most advanced compressor sealing solutions available. Even more, they're backed by a global team that leads the industry in dry gas seal retrofits, high-end compressor seal troubleshooting, seal support engineering, and world-class gas conditioning systems. By combining leading-edge technologies and service, Flowserve allows compressor customers to reach higher pressure, efficiency and profitability.

Compressor Seals and Systems – Quick Reference

Product	Sub-Type	Pressures	Temperatures	Speeds to	Sizes
Gaspac® T, L, D and S	Gas Compressor Process	650 bar (9427 psi)	to 230°C (450°F)	250 m/s (820 fps)	to 360 mm (14.125 in)
Circpac™ CB, LO and HP	Gas Compressor Process	10 bar (150 psi)	-40°C to 180°C (-40°F to 350°F)	140 m/s (460 fps)	to 280 mm (11.000 in)
Turbopac™ 378 and 2100	Gas Compressor Process	300 bar (4300 psi)	to 180°C (550°F)	100 m/s (330 fps)	40 to 260 mm (1.500 to 10.250 in)
Supplypac™	Gas Support System	414 bar (6000 psi)	to 240°C (400°F)	—	—
Cleanpac™ D, F and DL	Gas Support System	550 bar (8000 psi)	to 204°C (400°F)	—	—
Ampliflow™	Gas Support System	550 bar (8000 psi)	to 204°C (400°F)	—	—
Drypac™	Gas Support System	550 bar (8000 psi)	to 204°C (400°F)	—	—
N2 Genpac™	Gas Support System	13 bar (190 psi)	to 50°C (122°F)	—	—

COMPRESSOR SEALS AND SYSTEMS

GAS COMPRESSOR PROCESS

Gaspac T, L, D and S

The Gaspac is a proven platform of dry gas seals for turbomachinery equipment and features either bi-directional T-Groove or Advanced Pattern Groove (APG) non-contacting seal face technologies.

- Environmental regulatory compliance and energy savings assured by controlled gas flow rates over the widest operating conditions
- Increased reliability with precision face topography that offers high film stiffness and damping, and maintains a stable gas film under slow roll and high speeds
- Application versatility from a wide range of single and dual configurations with process barrier and oil exclusion features
- Increased uptime via innovative solutions for secondary sealing, reverse rotation, reverse pressurization and component centering

SPECIFICATIONS

Press. to: 650 bar (9427 psi)
Temp: to 230°C (450°F)
Speeds to: 250 m/s (820 fps)
Sizes: to 360 mm (14.125 in)

Refer to literature FSD113 at /library.

GAS COMPRESSOR PROCESS

Circpac CB, LO and HP

This high-performance segmented circumferential gas seal series is engineered for gas compressors as part of a Gaspac assembly (Circpac CB and LO) or as a stand-alone cartridge (Circpac HP).

- Consistent performance from carbon ring construction designed for non-contacting operation that exceeds the pressure capability of typical circumferential seals
- Increased reliability via pressure-balanced ring design and hydrodynamic surface features, resulting in low gas consumption and long life
- Enhanced application versatility enabled by multiple ring combinations with optimized purge and vent options
- Lower cost of ownership with fewer spare parts provided by bi-directional capability for reverse rotation

SPECIFICATIONS

Press. to: 10 bar (150 psi)
Temp: -40°C to 180°C (-40°F to 350°F)
Speeds to: 140 m/s (460 fps)
Sizes: to 280 mm (11.000 in)

Refer to literature FSD113 at /library.

GAS COMPRESSOR PROCESS

Turbopac 378 and 2100

The Turbopac is a highly dependable oil-lubricated, bi-directional mechanical seal designed for screw, turbo and high-pressure, high-speed applications.

- Increased performance and rotational speeds from stationary spring assembly
- Enhanced safety of operations during emergency shutdowns enabled by dual-acting static seal that allows for product containment under reverse pressure conditions
- Improved ease of installation via cartridge design
- Reduced leakage and added efficiency from design that minimizes oil loss
- Application flexibility owing to availability of single and double arrangements

SPECIFICATIONS

Press. to: 300 bar (4300 psi)
Temp: to 180°C (550°F)
Speeds to: 100 m/s (330 fps)
Sizes: 40 to 260 mm (1.500 to 10.250 in)

Refer to literature FSD113 at /library.

An Ultra-High Bar

In compressor services — where higher pressure often means higher efficiency and greater profitability — Gaspac seals set the performance benchmark. Able to handle high speeds and ultra-high pressures, Gaspac seals are driving innovation, achieving ever-greater pressures. This gas-lubricated, dry-running seal employs some of the most advanced non-contacting, lift-off technology available. It also boasts unequaled reliability, outlasting multiple compressor turnaround cycles.

GAS SUPPORT SYSTEM

Supplypac

Supplypac modular-based dry gas seal support systems simplify the typical dry gas seal control panel and provide safe, reliable seal operation.

- Supplypac modular-based dry gas seal support systems simplify the typical dry gas seal control panel and provide safe, reliable seal operation.
- Functional qualifications per API 614 design criteria and ASME B31.3 certification
- Wide operating range via flow paths that are scalable for lower pressure, larger bore and higher flow rates
- Ease of installation and improved inventory management from standardization of pre-manufactured components
- Available in multiple material and gasket options to meet specific requirements

SPECIFICATIONS

Press. to: 414 bar (6000 psi)
Temp: to 240°C (400°F)

Refer to literature FSD113 at /library.

GAS SUPPORT SYSTEM

Cleanpac D, F and DL

The Cleanpac line of dry gas seal filtration systems includes heavy liquid removal units (Cleanpac D), pre-filter units (Cleanpac F), as well as single and dual coalescing filter units (Cleanpac DL).

- Lower operational costs and improved dry gas seal system reliability owing to filter elements with efficiency of ß(0.3) >1000 (99.9% @ 0.3µm)
- Application versatility due to wide variety of materials of construction (including 316 SS, the standard for onshore and offshore applications) as well as high-temperature and high-pressure designs
- Reduced downtime resulting from a large coalescing element that enables extended operational periods between change-outs

SPECIFICATIONS

Press. to: 550 bar (8000 psi)
Temp: to 204°C (400°F)

Refer to literature FSD113 at /library.

COMPRESSOR SEALS AND SYSTEMS

GAS SUPPORT SYSTEM

Ampliflow

The Ampliflow seal supply gas boosting system ensures an adequate supply of clean, filtered gas is provided to the seals during periods of low differential pressure across the compressor.

- Optimal dry gas seal performance ensured by the system's ability to maintain flow through the conditioning system or seal gas panel
- Lower operating costs made possible by eliminating process contamination — the number one cause of dry gas seal failures
- Versatility via configuration options that include a portable unit, standalone panel, or integration with a Flowserve dry gas seal control panel or filter gas conditioning panel

SPECIFICATIONS

Press. to: 550 bar (8000 psi)
Temp: to 204°C (400°F)

Refer to literature FSD113 at /library.

GAS SUPPORT SYSTEM

Drypac

The Drypac gas dryer reduces the potential of liquid formation between the seal faces as a best practice reliability improvement measure and recommended by API standards.

- Decreased liquid formation ensured by system that lowers the dew point of the gas and raises the temperature of the seal supply gas to at least 20°C (36°F) above the dew point
- Increased MTBF of dry gas seals when the dew point of the gas is a potential issue
- Low operating costs due to simplified installation, operation and maintenance
- Easily integrated within existing gas seal control panels

SPECIFICATIONS

Press. to: 550 bar (8000 psi)
Temp: to 204°C (400°F)

Refer to literature FSD113 at /library.

GAS SUPPORT SYSTEM

N2 Genpac

The N2 Genpac system safely generates nitrogen gas from compressed air in hazardous conditions or remote locations.

- Optimal dry gas seal performance ensured by micron fiber filtration technology that extracts nitrogen gas at purities between 97% and 99%
- Uninterrupted nitrogen flow made possible by dual parallel filtration technology
- High uptime provided by monitoring system with differential pressure indicating transmitters and inlet/outlet pressure gauges
- Application flexibility arising from system that can operate independently or integrate with the Flowserve dry gas seal panel or Cleanpac and Drypac gas conditioning systems

SPECIFICATIONS

Press. to: 13 bar (190 psi)
Temp: to 50°C (122°F)

Refer to literature FSD113 at /library.

По вопросам продаж и поддержки обращайтесь:

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