

Аксессуары для уплотнений

Технические характеристики

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Bearing Gard

ACCESSORIES

Flowserve accessories for mechanical seals and associated equipment help you enhance long-term reliability and safety while minimizing maintenance. Bearing isolators protect bearing housings from environmental contamination for greater equipment longevity and less downtime. DuraClear synthetic lubricants and barrier fluids provide optimal lubrication for mechanical seals and rotating equipment to extend service life by reducing friction and wear. Cyclone and magnetic separators protect seals and other components by removing entrained particulate from the coolant stream. These products are a sample of the most popular accessories for protecting seals, seal support systems and general rotating equipment.

Accessories – Quick Reference

| Product Type | Valve Type | Flows to | Pressures | Temperatures | Sizes |
|---------------------------|---------------------|---------------------------|--------------------------|---------------------------------|--------------------------------------|
| Bearing Gard™ | Bearing Isolator | — | — | — | 23 to 203 mm (0.875 to 8.000 in) |
| BGM | Bearing Isolator | — | — | — | to 152 mm (6.000 in) |
| DuraClear™ | Industrial Process | — | — | — | — |
| Refill Cart | Industrial Process | — | to 103 bar (1500 psi) | — | 76 L (20 gal) |
| Seal Gard™ | Industrial Process | 13 lpm (3.5 gpm) | 25 bar (363 psi) | 0°C to 100°C (32°F to 212°F) | — |
| Magnetic Separator | High-Energy Process | 15 lpm (4 gpm) | 103.4 bar (1500 psi) | to 204°C (400°F) | 12.7 to 19 mm (0.500 to 0.750 in) |
| Cyclone Separator | Slurry Process | 57 lpm (0.9 to 15 gpm) | 138 bar (2000 psi) | to 455°C (850°F) | 12.7 to 19 mm (0.500 to 0.750 in) |
| SLD | Slurry Process | — | — | to 80°C (175°F) | — |

ACCESSORIES

BEARING ISOLATOR

Bearing Gard

Bearing Gard isolators improve rotating equipment reliability by protecting against contamination and improving oil retention. Applied in all industries, they satisfy IP-66, IEEE-841, API 610 and ATEX requirements.



- Increased rotating equipment life enabled by preventing the #1 reason for rotating equipment failure: contamination of bearings and lubrication
- Decreased maintenance costs made possible with design that eliminates shaft wear and fretting common with other isolator designs
- Significantly reduced oil leaks with non-contacting, non-wearing technology
- Lower inventory costs and fewer part numbers to manage, with one design that covers axial movement up to 0.63 mm (0.025 in)
- Reduced lead time with same-day shipping of made-to-order sizes

SPECIFICATIONS

Sizes: 23 to 203 mm
(0.875 to 8.000 in)

Refer to literature FSD257
at /library.

BEARING ISOLATOR

BGM

Utilizing rare earth magnets to keep seal faces closed, the BGM completely isolates the bearing housing from contamination and effectively contains oil mist within the bearing housing.



- Increased rotating equipment life enabled by preventing the #1 reason for rotating equipment failure: contamination of bearings and lubrication
- Decreased oil mist lubrication costs with positive sealing, preventing oil mist egress
- Reduced maintenance costs provided by magnets holding the seal faces closed to minimize oil leakage while allowing high axial shaft movement

SPECIFICATIONS

Sizes: to 152 mm (6.000 in)

Refer to literature FSD149
at /library.

INDUSTRIAL PROCESS

DuraClear

DuraClear high-performance synthetic lubricants are specially formulated for dual mechanical seal barrier or buffer fluids to increase mean time between planned maintenance and reduce energy consumption.



- Process fluid compatibility assured by synthetic oils and oil blends readily available with food grade compliance; DuraClear Crystal 7 is chemically inert and non-reactive for the most aggressive services
- Extended seal life with reduced friction and wear, oxidation resistance, temperature stability and low volatility
- Increased drain and replenish intervals due to longer fluid life
- Increased uptime with formulations for bearing frame oil, compressor oil, gear oil, hydraulic oil, turbine oil, air tool lubricant and grease applications

SPECIFICATIONS

NSF H-1 Food Grade
ISO 5, 7 and 32 viscosities
available

Refer to literature FSD123,
FSD269 and FSD268
at /library.



INDUSTRIAL PROCESS

Refill Cart

This rugged, easy-to-use, high-capacity reservoir refill cart allows you to add barrier fluid to seal support systems.

- Reduced maintenance enabled by ability to add barrier fluid during operation, without pump downtime or fugitive emissions
- Reduced errors with optional color-coded quick disconnects to prevent adding incorrect fluid
- Ease of use provided by rugged, easy-to-manuever cart with pneumatic tires, large reservoir tank and high-pressure hand pump

SPECIFICATIONS

Volume: to 76 L (20 gal)
Press: to 103 bar (1500 psi)



INDUSTRIAL PROCESS

Seal Gard

The Seal Gard manages seal water flow rates for single and dual seals to improve the mean time between planned maintenance of your rotary equipment by improving the environment in the seal area.

- Lower operating cost from dependable flow control that saves water costs by reducing seal water usage
- Ease of operation assured by clear-view acrylic flow meter with vertical flow tube that resists fouling and vibration-resistant pressure gauge
- Reduced downtime enabled by standard check valve that prevents backup of product into the seal water line in the event of pressure reversal

SPECIFICATIONS

Flows to: 13 lpm (3.5 gpm)
Press. to: 25 bar (363 psi)
Temp: 0°C to 100°C (32°F to 212°F)
Refer to literature FSD154 at / library.

HIGH-ENERGY PROCESS

Magnetic Separator

A magnetic separator installed in closed loop fluid systems removes iron oxide particles, protects equipment from contamination damage and increases system reliability.

- Minimal installation costs by inline insertion into Plan 23 piping plans or similar closed loop control lines
- Improved mechanical seal reliability enabled by strong magnetic field that effectively captures iron oxide particles to prevent seal face abrasion, hang-up or clogging
- Long-term reliability provided by large surface area of magnet capable of storing iron oxide particles through extended maintenance cycles

SPECIFICATIONS

Flows: to 15 lpm (4 gpm)
Press. to: 103.4 bar (1500 psi)
Temp: to 204°C (400°F)
Sizes: 12.7 to 19 mm
(0.500 to 0.750 in)
Refer to literature FSD173 at /library.



ACCESSORIES



SLURRY PROCESS

Cyclone Separator

Cyclone separators are designed to efficiently remove sand, pipe scale and other abrasive particles from Plan 31 injection flow to mechanical seals.

- Increased seal reliability ensured by centrifugal effects generated by differential pressure across the cyclone that carries away abrasive particles
- Improved equipment reliability, with up to 99% separation efficiency
- Offered in several sizes to fit the application based on flow rate and pressure

SPECIFICATIONS

Flows to: 57 lpm (0.9 to 15 gpm)
Press. to: 138 bar (2000 psi)
Temp: to 455°C (850°F)
Sizes: 12.7 to 19 mm
(0.500 to 0.750 in)

Refer to literature FSD173 at /library.



SLURRY PROCESS

SLD

The SLD dispenses lubrication to the atmospheric side of mechanical seals. It is ideal for seals subjected to periods of dry running or cavitation when product liquid does not provide adequate film between seal faces.

- Extended seal life — particularly flushless seals in harsh slurry conditions — made possible by providing and maintaining proper lubrication
- Lower operating cost delivered by unitized system that does not require air, electricity or external water
- Increased uptime with DS-920-OG DuraClear lubricant, which resists breakdown when mixed with pumpage, water or containments
- Optional DS-460-F DuraClear lubricant is approved by USDA for incidental food contact

SPECIFICATIONS

Temp: to 80°C (175°F)

Refer to literature FSD148 at /library.



VALVES

Whether it's critical, lethal, toxic or aggressive, you'll find Flowserve valves doing the job around the world. That's because extended service life, safe operation and environmental protection are at the core of every valve we manufacture. Global customers can easily find the configurations they require, engineered to meet requisite performance and safety standards, whether it's a standard or custom-engineered solution.

It's a portfolio of brands for quarter-turn, rotary, linear, control and specialty configurations that covers today's toughest demands for valve performance. But we're looking ahead to new challenges that will test the current state of valve manufacturing. This mindset pushes us to pursue materials advancements and severe-duty enhancements as well as the next levels of precision control, optimized flow and fail-safe shut-off.

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