PASCAL®

Pascal Seals -- No leakages, no intrusion

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PASCAL®

Pascal Seals -- No leakages, no intrusion

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If you happen to have any leakage issues, please contact us, our team is best at solving difficult projects.

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Contents

- Contents

Bearing Isolator

Dry Gas Mechanical Seal

Technical Director Bei Jiang

He has been committed to the research of mechanical seals since 1984, and has provided technical support for major livelihood projects in China multiple times. Due to outstanding contributions, he was awarded the title of Republic Technology Model by the China government in 1998.

Technical Director: Sihai Wang

He has been designing of machine seals since 1990. Over the past 30 years, he has designed thousands of machine seals for major projects around the world, and served as a technical consultant for Kenflo, the largest water pump factory in China.

Our Company

- Founded in 1984
- Plant area: 4800 square meters
- China government authorized high-tech enterprise

- 83 Technical Team Members;
- Number of equipment: 186 sets
- The total assets reach $27,000,000.

The exelusive supplier of Kenflo (the largest pump manufacturer in China)

Our Team

Our Products

PASCAL®

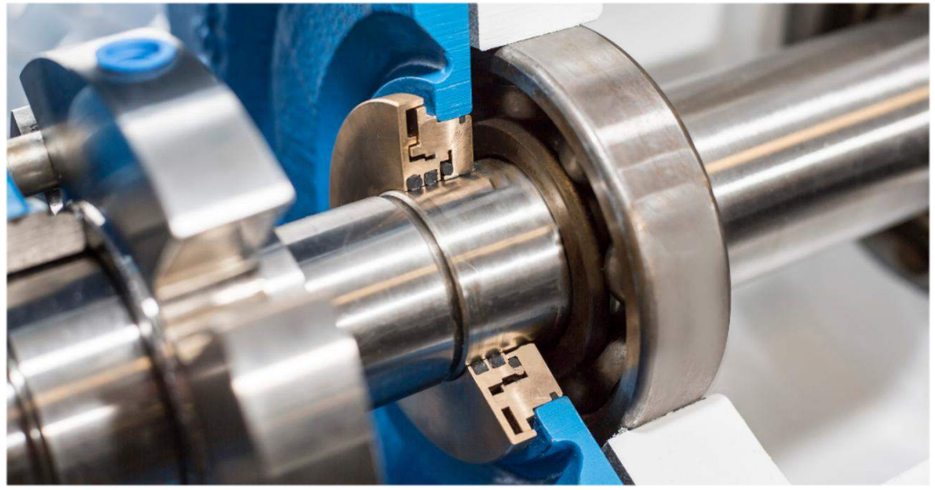
Bearing Isolator

This is a technological revolution that subverts traditional bearing protection, revolutionizes the operational efficiency of equipment.

Bearing Isolator

Advantages of bearing isolators

- Unique contactless design
- Effectively extend the life of bearings
- Excellent sealing performance
- Effectively reduce vibration and noise
- Almost no maintenance required to avoid downtime
- Effective temperature control to prevent overheating
- Reduce workload without frequent



Applications & Suitable equipments

- **Recommended applications**
  - Chemical Industry
  - Pharmaceutical industry
  - Building services
  - Aerospace
  - Military Industry
  - Manufacturing
  - Water Conservancy Projects
  - Mining
  - Steel and Metallurgy
- **Suitable equipments**
  - Agitators
  - Mixers and Stirrers
  - Extruders
  - Electric Motors
  - Gearboxes
  - Paper Machine Rolls
  - Bearing Housings
  - Motors
  - Pump
  - Steam Turbines
  - Screw Conveyors
  - Agitator Screw
  - Conveyors
  - Sliding Bearing

Bearing Isolator

Customization

By providing the gland, shaft diameter, cavity location, and dimensions, we can design a perfect bearing isolator for your equipment.

Why choose Bearing Isolator?

- The best protector for bearings
- Durable and Maintenance-free
- Effectively Extending the Bearing Life

Mechanical Seal

Spring-type Mechanical Seal

APHJ(S) Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Cartridge seals
- Independent of the direction of rotation
- Standard**:** API682

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 25～100 mm

Pressure: 0 ~ 2.5 Mpa

Speed: ≤ 5000 r/min

Linear Speed: ≤ 30 m/s

Temperature: 0℃ ～ +180℃(FPM)

-20℃ ～ + 90℃(NBR)

-30℃ ～ +120℃(EPR)

• Mediums

Suitable for oil, water, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Food and beverage industry,
- Fresh water supply,
- Hot water application,
- Process water,
- Tank farms / storage tanks,
- Water and waste water,
- Environmental protection and energy saving,
- Agitators,
- Centrifugal compressors,
- Power generation

• Applicable pump type

- Centrifugal pumps,
- Water pumps,
- Sewage pumps,
- Oil pumps,
- Beer pumps,
- Oil pumps,
- Axially split pump

Cartridge Seals

Customization

We can ***design&customize*** the cartridge seals in 3 ways as follows:

- Please provide cavity drawings to customized.
- Please provide the cartridge seal assembly drawing customized.
- Please provide samples for customization.

202 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Install the chilling water tank when it is >80°C.
- Standard: HG-T2098-2001

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～130 mm

Pressure: ≤9.87×10^{-2} (absolute)～0.25MPa(superficial)

Speed: ≤500r/min

Linear Speed: ≤5m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for acid, alkali, oil, and polymer suspension.

Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry

• Applicable pump type

- Mixer & Agitator Seals
- FGD Seals
- Mixers
- Chemical Pumps

204 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Install the chilling water tank when it is >80°C.
- Standard: HG-T2098-2001

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～130 mm

Pressure: ≤ 0.6 Mpa

Speed: ≤ 500 r/min

Linear Speed: ≤ 5 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for acid, alkali, oil, and polymer suspension.

Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry

• Applicable pump type

- Mixer & Agitator Seals
- FGD Seals
- Mixers
- Chemical Pumps

205 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Cartridge seals
- Independent of the direction of rotation
- Install the chilling water tank when it is >80°C.
- Standard: HG-T2098-2001

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～130 mm

Pressure: ≤1.33×10^{-5} (absolute)～0.6MPa(superficial)

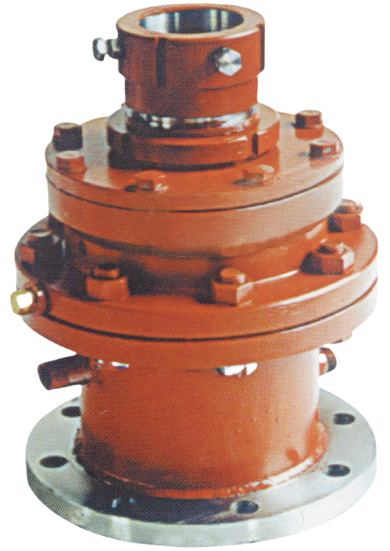
Speed: ≤ 500 r/min

Linear Speed: ≤ 5 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for acid, alkali, oil, and polymer suspension.



Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry

• Applicable pump type

- Mixer & Agitator Seals
- FGD Seals
- Mixers
- Chemical Pumps

206 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Cartridge seals
- Independent of the direction of rotation
- Install the chilling water tank when it is >80°C.
- Standard: HG-T2098-2001

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～130 mm

Pressure: ≤1.6 Mpa

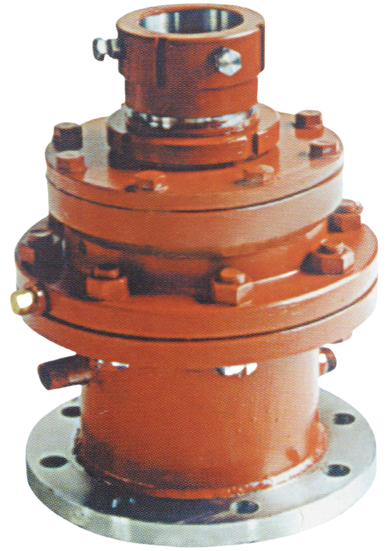
Speed: ≤500 r/min

Linear Speed: ≤5m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for acid, alkali, oil, and polymer suspension.



Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry

• Applicable pump type

- Mixer & Agitator Seals
- FGD Seals
- Mixers
- Chemical Pumps

207 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Cartridge seals
- Independent of the direction of rotation
- Install the chilling water tank when it is >80°C.
- Standard: HG-T2098-2001

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～130 mm

Pressure: ≤2.5 Mpa

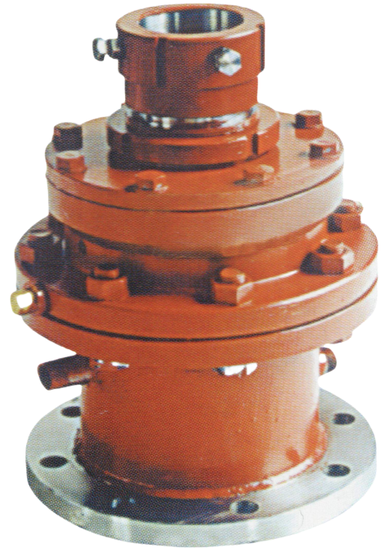
Speed: ≤500 r/min

Linear Speed: ≤ 5 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for acid, alkali, oil, and polymer suspension.



Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry

• Applicable pump type

- Mixer & Agitator Seals
- FGD Seals
- Mixers
- Chemical Pumps

103 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Dependent of the direction of rotation, please specify when ordering.
- Standard: JB/T 1472-2011

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 16～120 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 20 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

103 Series Seals are suitable for general corrosive chemical pumps, sewage pumps, industrial pumps, etc. Reliable transmission, easy installation, universal interchangeability. Suitable for oil, water, organic solvent, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

104 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: JB/T 1472-2011

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 16～120 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 20 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

104 series seals are suitable for general corrosive chemical pumps, sewage pumps, industrial pumps, etc. Reliable transmission, easy installation, universal interchangeability. Suitable for oil, water, organic solvent, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

U108 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Dependent of the direction of rotation, please specify when ordering
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18～100 mm

Pressure: 0 ~ 0.6 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 20 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for oil, water, organic solvent, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Caustic soda
- Power generation
- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Lithium (Li_2CO_3, LiOH)
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Sustainable plasticsproduction
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Chemical Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

1527 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Dependent of the direction of rotation, please specify when ordering.
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18～100 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 20 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for oil, water, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Caustic soda
- Power generation
- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Lithium (Li_2CO_3, LiOH)
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Sustainable plasticsproduction
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Chemical Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

59U Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: PTFE

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 14～100 mm

Pressure: 0 ~ 1.2 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 20 m/s

Temperature: -40℃ ～ +230℃(PTFE)

• Mediums

59U Series Mechanical Seal is a multi-spring structure mechanical seal, sealing surface pressure uniform, easy to install, and good versatility. It can be applied to oil, water, organic solvents, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

UMN Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter:14～100 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

UMN Series Mechanical Seals are highly interchangeable and compact. Its push ring is stuck by the drive strap to prevent the spring from falling off. Its reliable performance is widely used in oil, water, organic solvents, medium corrosive liquids, and media containing solid particles.

This seal can replace Eagle Burgmann M7N perfectly.

Applications & applicable pump type

• Recommended applications

- Pulp and paper industry
- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Hydrogen
- Pumps
- Household appliances
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Pulp Pumps
- Slurry Pumps
- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

USMN Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter:14～100 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

USMN Series of mechanical seals are mainly used in hot water and high-temperature industry. It is suitable for oil, water, organic solvents, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Hot water applications
- Pulp and paper industry
- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Hydrogen
- Household appliances
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Pulp Pumps
- Slurry Pumps
- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

UXM Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter:14～100 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for oil, water, organic solvent, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Pulp and paper industry
- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Hydrogen
- Pumps
- Household appliances
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Pulp Pumps
- Slurry Pumps
- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

UMS Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter:14～200 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

UMS Series Mechanical Seal is a multi-spring structure mechanical seal, sealing surface pressure uniform, easy to install, and good versatility. It can be applied to oil, water, organic solvents, medium corrosive liquids, and media containing solid particles.

This seal can replace Eagle Burgmann M74 perfectly.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

UOD(T) Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter:18～100 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

Suitable for oil, water, organic solvent, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Caustic soda
- Power generation
- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Lithium (Li_2CO_3, LiOH)
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Sustainable plasticsproduction
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Chemical Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

BTN Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18～100 mm

Pressure: 0 ~ 2.5 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)

-20℃ ～ + 90℃(NBR)

-30℃ ～ +120℃(EPR)

• Mediums

BTN Series Mechanical Seals are suitable for solid particles and high-viscosity intermediation (sugar, granulation, sewage, and other industries).

This seal can replace Eagle Burgmann HJ92N perfectly.

Applications & applicable pump type

• Recommended applications

- Pulp and paper industry
- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Hydrogen
- Pumps
- Household appliances
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Pulp Pumps
- Slurry Pumps
- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

171 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 25～60 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)

-20℃ ～ + 90℃(NBR)

-30℃ ～ +120℃(EPR)

• Mediums

171 Series Mechanical Seals are special mechanical seals with back pressure.

It suits oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Caustic soda
- Chemical industry

• Applicable pump type

- Chemical Pumps

110 Series Mechanical Seal

Basic Features

- Single seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: JB/T 1472-2011

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 16/11～120/110 mm

Pressure: 0 ~ 3.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

110 Series Mechanical Seals are mainly used in high pressure environments.

They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

59B Series Mechanical Seal

Basic Features

- Single seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: PTFE

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: -40℃ ～ +230℃(PTFE)

• Mediums

59B Series Mechanical Seals are mainly used in high pressure environments.

They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

BOT Series Mechanical Seal

Basic Features

- Single seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 3.0 Mpa

Speed: ≤3000 r/min

Linear Speed: ≤20 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BOT Series Mechanical Seals are mainly used in high pressure environments.
They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Caustic soda
- Power generation
- Building services
- Cement industry
- Crystallizing media
- Drinking water
- Food and beverage
- Lithium (Li_2CO_3, LiOH)
- Fresh water supply
- Hot water applications
- Household appliances
- Pipeline systems
- Pool and SPA
- Process water
- Sustainable plasticsproduction
- Pulp and paper industry
- Shipbuilding
- Shipping Industry
- Special applications(Cement)
- Sugar industry
- Tank farms / storage
- Waste water technology
- Water and waste water
- Water, waste water, slurries(solids up to 5% by weight)

• Applicable pump type

- Chemical Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

BMN Series Mechanical Seal

Basic Features

- Single seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BMN Series Mechanical Seals are mainly used in high pressure environments.
They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

This seal can replace Eagle Burgmann H7N perfectly.

Applications & applicable pump type

• Recommended applications

- Pulp and paper industry
- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Hydrogen
- Pumps
- Household appliances
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Pulp Pumps
- Slurry Pumps
- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

BSMN Series Mechanical Seal

Basic Features

- Single seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BSMN Series Mechanical Seals are mainly used in high pressure environments.
They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Hot water applications
- Pulp and paper industry
- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Hydrogen
- Household appliances
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Pulp Pumps
- Slurry Pumps
- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

BMS Series Mechanical Seal

Basic Features

- Single seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BMN Series Mechanical Seals are mainly used in high pressure environments.
They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

UUMXD(T) Series Mechanical Seal

Basic Features

- Double seal
- Unbalanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18～100 mm

Pressure: 0 ~ 1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

UUMXD(T) Series Mechanical Seals are multi-spring mechanical seals, mainly used in chemical pumps, especially in the case of harsh media, such as sodium hydroxide solution, strong alkali and acid, natural gas, and so on

They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

This seal can replace Eagle Burgmann M74-D perfectly.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

BBMXT Series Mechanical Seal

Basic Features

- Double seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BBMXT Series Mechanical Seals are multi-spring mechanical seals. They are mainly used in high pressure environments.

They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

This seal can replace Eagle Burgmann H74-D perfectly.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

BBMS Series Mechanical Seal

Basic Features

- Double seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BBMS Series Mechanical Seals are multi-spring mechanical seals. They are mainly used in high pressure environments.

They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

BBSXT Series Mechanical Seal

Basic Features

- Double seal
- Balanced
- Spring-type mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, etc.

Elastomer: FPM / NBR / EPR / PTFE / PTFE coated rubber

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 18/14～105/100 mm

Pressure: 0 ~ 4.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤20m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)
-40℃ ～ +230℃(PTFE)
-40℃ ～ +230℃(PTFE coated rubber)

• Mediums

BBSXT Series Mechanical Seals are multi-spring mechanical seals. They are mainly used in high-temperature and high-pressure environments. It contains a pumping ring (equivalent to an internal impeller).They suit oil, water, organic solvents, medium corrosive liquids, and medium-containing solid particles.

Applications & applicable pump type

• Recommended applications

- Applications with upstream gastreatment(glycol)
- Building services industry
- Caustic soda
- Centrifugal compressors
- Chemical industry
- Crude oil
- Desalination
- Drinking water
- Food and beverage industry
- Fresh water supply
- Gas storages
- Hot water applications
- Household appliances
- Hydrogen
- LNG
- NGL (Natural Gas Liquids) processes
- Non-toxic media
- Oil and gas industry
- Petrochemical industry
- Pharmaceutical industry
- Pipeline systems
- Pool and spa applications
- Power plant
- Process industry
- Shipbuilding
- Shipping Industry
- Sour water
- Water and waste water

• Applicable pump type

- Water Pumps
- Vacuum Pumps
- Circulating Pumps
- Chemical Pumps
- Centrifugal Pumps
- Compressors
- Sewage Pumps
- Oil Pumps
- High Speed Pumps
- Cryogenic Pumps
- Piping Pumps

PTFE Bellows Mechanical Seal

212 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- PTFE bellows mechanical seal
- Independent of the direction of rotation
- Install the chilling water tank when it is >80°C
- Standard: HG-T2098-2001

Operating Conditions and Materials

• Materials

Seal Face: PTFE, Silicon Carbide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～130 mm

Pressure: 0 ~ 0.5 Mpa

Speed: ≤500r/min

Linear Speed: ≤5m/s

Temperature: 0℃ ～ +180℃(FPM)

-20℃ ～ + 90℃(NBR)

-30℃ ～ +120℃(EPR)

• Mediums

212 Series Seals are suitable for general corrosive chemical pumps. They suit all kinds of acidic liquids (except hydrofluoric and fuming nitric acid).

Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry
- Sour water

• Applicable pump type

- Mixer & Agitator Seals
- Special Seal
- Mixers
- Chemical Pumps
- Reactors

151 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- PTFE bellows mechanical seal
- Independent of the direction of rotation
- Standard: JB/T 7372-2011

Operating Conditions and Materials

• Materials

Seal Face: Silicon Carbide, Aluminium Oxide, etc.

Elastomer: PTFE

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 30～60 mm

Pressure: 0 ~ 0.5 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 15 m/s

Temperature: ≤ 100℃

• Mediums

151 Series Seals are suitable for general corrosive chemical pumps. They suit organic solvents and all kinds of acidic liquids (except hydrofluoric and fuming nitric acid).

Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry
- Sour water

• Applicable pump type

- Mixer & Agitator Seals
- Special Seal
- Mixers
- Chemical Pumps
- Reactors

152 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- PTFE bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Silicon Carbide, Aluminium Oxide, etc.

Elastomer: PTFE

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 25～60 mm

Pressure: 0 ~ 0.5 Mpa

Speed: ≤3000 r/min

Linear Speed: ≤ 15 m/s

Temperature: ≤ 100℃

• Mediums

152 Series Seals are suitable for general corrosive chemical pumps. They suit organic solvents and all kinds of acidic liquids (except hydrofluoric and fuming nitric acid).

Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry
- Sour water

• Applicable pump type

- Mixer & Agitator Seals
- Special Seal
- Mixers
- Chemical Pumps
- Reactors

WB2 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- PTFE bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Silicon Carbide, Aluminium Oxide, etc.

Elastomer: PTFE

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 25～60 mm

Pressure: 0 ~ 0.5 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 15 m/s

Temperature: ≤ 100℃

• Mediums

WB2 Series Seals are suitable for general corrosive chemical pumps. They suit organic solvents and all kinds of acidic liquids (except hydrofluoric and fuming nitric acid).

Applications & applicable pump type

• Recommended applications

- Agitators
- Chemical standard pumps
- Chemical industry
- Sour water

• Applicable pump type

- Mixer & Agitator Seals
- Special Seal
- Mixers
- Chemical Pumps
- Reactors

Rubber Bellows Mechanical Seal

MTB Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 10～100 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤ 3000 r/min

Linear Speed: ≤ 10 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃ (NBR)
-30℃ ～ +120℃(EPR)

• Mediums

MTB Series Seals are suitable for booster pumps in high-rise buildings.

They suit Water, oil, sewage, food, beverage, paper pulp, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

This seal can replace John Crane 2100 perfectly.

U21 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

Note: This type of mechanical seal generally does not have a spring base, if necessary, please specify when ordering.

• Operating range

Shaft diameter: 1″～3.125″(inch)

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

Water, oil, sewage, food, beverage, paper pulp, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Beer Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

This seal can replace John Crane U21 perfectly.

U1 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

Note: This type of mechanical seal generally does not have a spring base, if necessary, please specify when ordering.

• Operating range

Shaft diameter: 0.375″～3.000″(inch)

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

Water, oil, sewage, food, beverage, paper pulp, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Beer Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

UBN Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation
- Standard: Radial dimensions conform to ISO 3069 and DIN 24960

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

Note: This type of mechanical seal generally does not have a spring base, if necessary, please specify when ordering.

• Operating range

Shaft diameter: 10～100 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

Water, oil, sewage, food, beverage, paper pulp, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Beer Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

MB1 Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 10～100 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

Water, oil, sewage, food, beverage, paper pulp, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

This seal can replace Eagle Borgmann MG1-G60 perfectly.

FBD Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- The rotation has a direction, please specify when ordering.

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 16～120 mm

Pressure: 0 ~0.3 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

FBD Series Mechanical Seal is not easy to plug due to the use of a single spring. Increasing the buoyancy of the rotating ring reduces the compensation drag,

It is often used in water, oil, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

This seal can replace John Crane FBD perfectly.

SB Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 12～30 mm

Pressure: 0 ~0.4 Mpa

Speed: ≤ 5000 r/min

Linear Speed: ≤ 10 m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

SB Series Mechanical Seals are mainly used in self-priming pumps and fire pumps.

It is often used in water, oil, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Self-priming Pumps
- Fire Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

UUFB Series Mechanical Seal

Basic Features

- Double seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 14～60 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

It is often used in water, oil, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Sewage Treatment
- urban water supply
- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Pulp and paper industry
- Fresh water supply

• Applicable pump type

- Submerged PumpS
- Clean Water Pumps
- Circulating Pumps
- Vacuum Pumps
- Pipeline Pumps
- Sewage Pumps
- Submersible Motors

UUMB(T) Series Mechanical Seal

Basic Features

- Double seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

• Operating range

Shaft diameter: 10～100 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)
-20℃ ～ + 90℃(NBR)
-30℃ ～ +120℃(EPR)

• Mediums

It is often used in water, oil, medium corrosive liquid, and medium containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

BIA Series Mechanical Seal

Basic Features

- Single seal
- Unbalanced
- Rubber bellows mechanical seal
- Independent of the direction of rotation
- Standard: JB/T6616-2020

Operating Conditions and Materials

• Materials

Seal Face: Graphite, Silicon Carbide, Tungsten Carbide, Aluminium Oxide, etc.

Elastomer: FPM / NBR / EPR

Metal Parts: Stainless Steel, etc.

Note: This type of mechanical seal generally does not have a spring base, if necessary, please specify when ordering.

• Operating range

Shaft diameter: 14～90 mm

Pressure: 0 ~1.0 Mpa

Speed: ≤3000r/min

Linear Speed: ≤10m/s

Temperature: 0℃ ～ +180℃(FPM)

-20℃ ～ + 90℃(NBR)

-30℃ ～ +120℃(EPR)

• Mediums

Water, oil, sewage, food, beverage, paper pulp, medium corrosive liquids, and media containing solid particles.

Applications & applicable pump type

• Recommended applications

- Building services
- Centrifugal compressors
- Chemical industry
- Chemical standard pumps
- Crude oil
- Drinking water
- Food and beverage
- Food technology
- Fresh water supply
- Hot water applications
- Household appliances
- Non-toxic media
- Pipeline systems
- Pipelines
- Pool and spa applications
- Process water
- Pumps
- Shipbuilding
- Shipping Industry
- Tank farms/storage
- Waste water technology
- Water and waste water

• Applicable pump type

- Beer Pumps
- Water Pumps
- Circulating Pumps
- Centrifugal Pumps
- Sewage Pumps
- Slurry Pumps
- Oil Pumps
- Chemical Pumps
- Industrial Pumps

PASCAL®

Application

Application


Papermaking


Pump Unit


Chemical Industry


Fire Pump


Mining


Thermal Power and Nuclear Power


Architectural


Sewage Treatment


Water Conservancy Equipment


Aerospace


Reaction Kettle


Energy Conservation and Environmental Protection


Shipping Sector


Pharmaceutical and Food


Iron and Steel Metallurgy


Beverage and Bear Brewing

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Pascal Seals -- No leakages, no intrusion