



CORE

Reliable by Performance

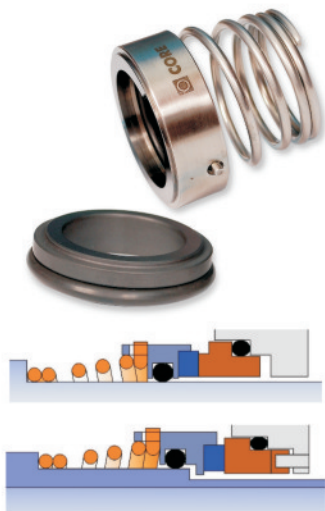


MECHANICAL SEALS



SPC Series

Conical Spring Seal



FEATURES

Easy to install, lower in cost, rugged & reliable, uni directional, inside mounted single coil seal covers wide range of applications.

APPLICATIONS

In water pumps, sewage pumps, submerged pumps, chemical pumps, etc

OPERATING PARAMETERS

Pressure: up to 10 bar
Temperature: -20°C to +190°C
Speed: up to 3000 rpm

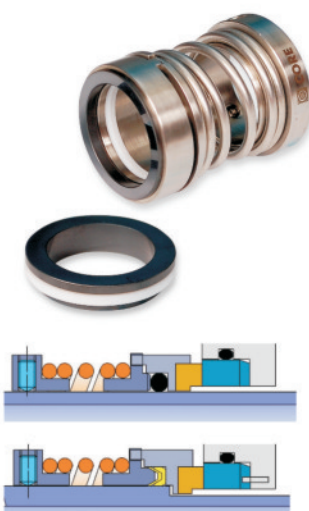
AVAILABLE SIZES: 16mm to 75mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Viton, EPDM, NBR	SS304, SS316
TC	Carbon, TC, SiC		
SiC	Carbon, SiC, TC		

SPL Series

Single Pusher Seal



FEATURES

Single acting, Internally mounted, bidirectional, self aligned, better for reliable Performance

APPLICATIONS

In slurry, viscous and abrasive pumps.

OPERATING PARAMETERS

Pressure: up to 15 bar
Temperature: -20°C to +230°C
Speed: up to 25 m/s

AVAILABLE SIZES: 16mm to 100mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Viton, EPDM, PTFE, GFT	SS304, SS316, Alloys
TC	Carbon, TC, SiC		
SiC	Carbon, SiC, TC		

MSC Series

Multi Spring Pusher Seal



FEATURES

Internally mounted, bidirectional, multiple spring arrangement, Compaq design

APPLICATIONS

In almost all chemicals, clear liquid, light hydrocarbon fluid & gas pumps.

OPERATING PARAMETERS

Pressure: up to 15 bar
Temperature: -20°C to +230°C
Speed: up to 25 m/s

AVAILABLE SIZES: 16mm to 150mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Viton, EPDM,	SS304, SS316, Alloys
GFT	Ceramic	PTFE, GFT	

MSO Series

Multi Spring Pusher Seal



FEATURES

Single acting, Internally mounted, bidirectional, self aligned, better for reliable Performance

APPLICATIONS

In all chemical, acid and corrosive fluid pumps.

OPERATING PARAMETERS

Pressure: up to 15 bar
Temperature: -20°C to +230°C
Speed: up to 25 m/s

AVAILABLE SIZES: 22mm to 100mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Viton, EPDM, PTFE, GFT	SS304, SS316, Alloys
TC	Carbon, TC, SiC		
SiC	Carbon, SiC, TC		

MSHB Series

Special Balanced Seal



FEATURES

Single acting, bear reverse pressure, bidirectional

APPLICATIONS

In high viscous, high slurry, corrosive fluid pumps.

OPERATING PARAMETERS

Pressure: up to 16 bar

Temperature: -20°C to +190°C

Speed: up to 25 m/s

AVAILABLE SIZES: 22mm to 75mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Ceramic	Viton, EPDM, NBR, FEP	SS316, Alloys, Hast-C
TC	Carbon, TC, SiC		
SiC	Carbon, SiC, TC		

MBS Series

Metal Bellow Seal



FEATURES

Internally Mounted, Single acting, welded metal bellows, bidirectional

APPLICATIONS

In high temperature & high pressure fluid pumps.

OPERATING PARAMETERS

Pressure: up to 20 bar

Temperature: -20°C to +350°C

Speed: up to 25 m/s

AVAILABLE SIZES: 22mm to 75mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Graphite, PTFE, GFT	SS316, Alloys, Hast-C
TC	Carbon, TC, SiC		
SiC	Carbon, SiC, TC		

EBS Series

Elastomer Bellow Seal



FEATURES

Single acting, unbalanced, Low cost, bidirectional, self aligned

APPLICATIONS

In general purpose Water & Oil Pumps And light duty chemical & hydrocarbon fluid pumps.

OPERATING PARAMETERS

Pressure: up to 10 bar

Temperature: -20°C to +190°C

Speed: up to 20 m/s

AVAILABLE SIZES: 16mm to 150mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Viton, EPDM, NBR	SS304, SS316
SiC	SiC		

PBS Series

PTFE Bellow Seal



FEATURES

Externally Mounted, Single acting, Replaceable Seal face, bidirectional

APPLICATIONS

In extremely corrosive & critical services like concentrated acids, alkalis, salts etc.

OPERATING PARAMETERS

Pressure: up to 6 bar

Temperature: -20°C to +120°C

Speed: up to 14 m/s

AVAILABLE SIZES: 19mm to 75mm

MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
GFT	Ceramic	PTFE, GFT	SS316, Alloys
SiC	SiC		
Carbon	SiC		

CSB Series

Spring Protected Seal

FEATURES

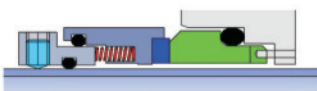
Balanced Multi Spring Single Seal, Independent of Direction of Rotation, Springs averted from the product so no sticking and clogging of the springs

APPLICATIONS

In solid containing and abrasive media, oil, slurry, Petrochemical pumps

OPERATING PARAMETERS

Pressure: up to 25 bar
Temperature: -20°C to +190°C
Speed: up to 25 m/s



MATERIALS

AVAILABLE SIZES: 22mm to 75mm

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Ceramic	Viton, EPDM, FEP	SS316, Alloys, Hast-C
TC	Carbon, TC, SiC		
SiC	Carbon, SiC, TC		

HPD Series

Stationary Mounted Seal

FEATURES

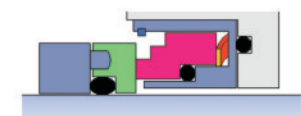
Single seal, Balanced, Independent of direction of rotation, Stationary Mounted Seal, wave spring loaded, designed for use in poor lubricating media, reduces swashing of seal head

APPLICATIONS

heavy-duty process pumps, vacuum blowers, compressors and pumps, which handle air, gases, oils, water, refrigerants, chemicals and food, dry vacuum pumps

OPERATING PARAMETERS

Pressure: up to 30 bar
Temperature: -20°C to +190°C
Speed: up to 50 m/s



AVAILABLE SIZES: 22mm to 150mm

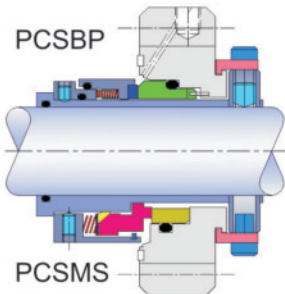
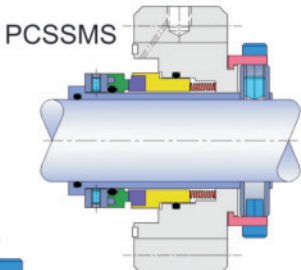
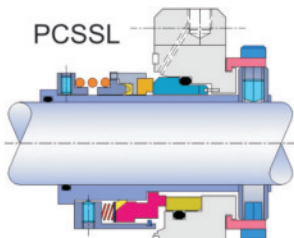
MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Stellite, Ceramic	Viton, EPDM	SS316, Alloys

PCS Series

Pump Cartridge Seal

Seal cartridges are pre-assembled mechanical face seal assemblies that contain all of the essential components. Cartridges are used to package mechanical face seals for ease of handling and installation. Even though material cost is higher, cartridges save money by simplifying maintenance and eliminating installation related failures.



FEATURES

Pre-assembled Mechanical seal, Makes installation procedure fast & simple.

OPERATING PARAMETERS

Pressure: up to 16 bar
Temperature: -20°C to +230°C
Speed: up to 25 m/s

APPLICATIONS

In Water, Caustic, Hydrocarbon, Acid, Chemical, Petrochemical pumps.

AVAILABLE SIZES: 12mm to 150mm

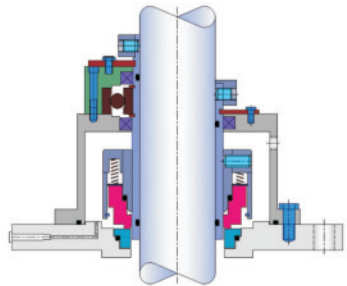
MATERIALS

ROTARY SEAL FACE	STATIONARY SEAL FACE	ELASTOMERS	HARDWARE
Carbon	TC, SiC, Ceramic	Viton, EPDM, PTFE, GFT	SS304, SS316, Alloys
TC	SiC, TC, Carbon		
SiC	SiC, TC, Carbon		

CUS Series

Single Seal Cartridge unit

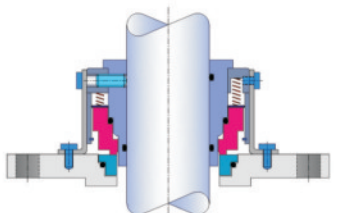
CUSWB



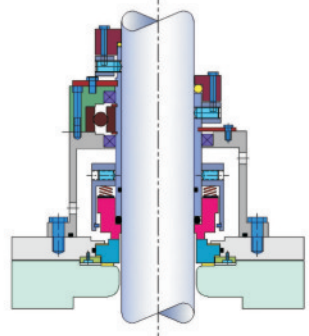
- Single Seal Cartridge unit with/without integrated bearing
- Unbalanced, Independent of direction of rotation
- Agitator seals, factory assembled and tested units.
- For use on carbon steel and stainless steel vessels
- Operation of single seals only with pressureless quench
- Size available: 40 to 200 mm
- Pressure: vacuum to 6 bar
- Temperature: -20°C to +190°C
- Speed: up to 2 m/s

- Single Seal Cartridge unit
- Dry Running, unbalanced, Independent of direction of rotation
- Connections according to DIN
- Agitator seals, factory assembled and tested units.
- For use on carbon steel and stainless steel vessels
- Size available: 40 to 200 mm
- Pressure: vacuum to 6 bar
- temperature: -20°C to +120°C
- Speed: up to 1 m/s

CUSDO



CUSGL

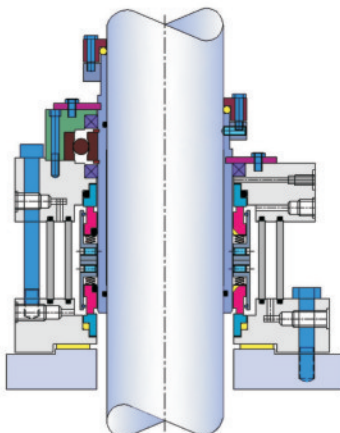


- Single Seal Cartridge unit
- Unbalanced, Independent of direction of rotation
- Connections according to DIN
- Agitator seals, factory assembled and tested units.
- For use on glass lined vessels
- Operation of single seals running Wet/ Dry options
- Size available: 40 to 200 mm
- Pressure: vacuum to 6 bar
- temperature: -20°C to +190°C
- Speed: up to 2 m/s

CUD Series

Double Seal Cartridge unit

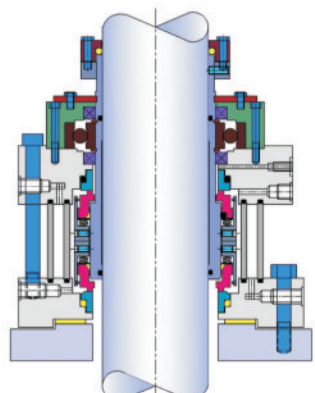
CUDMU



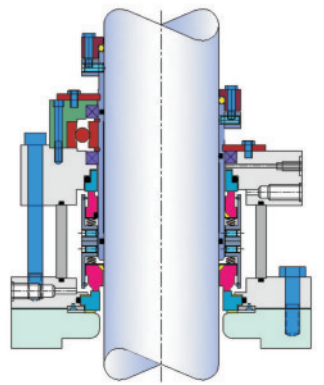
- Double seal cartridge unit with/without integrated bearing to fit cs/ss vessels
- Back-to-back seal arrangement with unbalanced face
- Liquid lubricated versions available
- Suitable for standard moderate pressure applications, basically in the chemical, petrochemical, and pharmaceutical industry
- Size available: 40 to 200 mm
- Pressure: vacuum to 12 bar
- Temperature: -20°C to +190°C
- Speed: up to 2 m/s

- Double seal cartridge unit to fit stainless steel vessels
- Back-to-back seal arrangement with balanced faces
- Available in lubrication system
- Suitable for application in explosive areas for standard high pressure applications, basically in the chemical, petrochemical, and pharmaceutical industry
- Size available: 40 to 200 mm
- Pressure: vacuum to 30 bar
- Temperature: -20°C to +190°C
- Speed: up to 2 m/s

CUDHB



CUDGL



- Double seal cartridge unit with/without integrated bearing to fit glass lined vessels
- Back-to-back seal arrangement with unbalanced faces
- Liquid lubricated versions available
- Non-standard sizes can be created by modifying the sleeve bore
- Suitable for application in explosive areas.
- Size available: 40 to 200 mm
- Pressure: vacuum to 14 bar
- Temperature: -20°C to +190°C
- Speed: up to 2 m/s

Mechanical seals are used to prevent leakage of pressurized fluid between a rotating shaft and a stationary housing. Mechanical seals are available in a variety of configurations, and their selection depends on the application.



CORE ENGINEERS manufactures mechanical seals and its spares for various applications in process pumps, agitators, pressure vessels, compressors and other rotary equipments to suite different working temperature and pressure parameters of the plants and supply at reasonable rates within hours.

Mechanical Seals, we engineer at CORE, are the result of extensive industry-wide research, testing, plant experience, availability of sophisticated analytical tools and advances in manufacturing technology. This has enabled improvements in the performance of mechanical seals in a number of critical applications in petrochemical, chemical, oil & gas, power, biotech, pharmaceuticals, dairy, food & beverages, pulp & paper, textile and other industries.



Apart from designs & types mentioned in this brochure, we consistently engineer proper solutions for problematic sealing applications. We can address specific sealing applications and conditions in your environment. Our unique approach, coupled with an uncompromised commitment to product quality, assures our customers of unprecedented sealing reliability.

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Manufactured by:

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