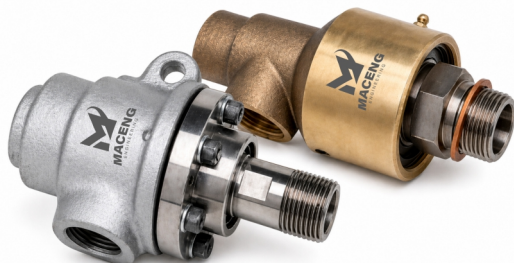


- MECHANICAL SEALS
- INDUSTRIAL PUMPS
- ROTARY JOINT & UNION
- INDUSTRIAL VALVES
- RUBBER & TEFLON PRODUCTS



MACENG
ENGINEERING



Certified Quality Management System Under  ISO 9001



MSME
सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES



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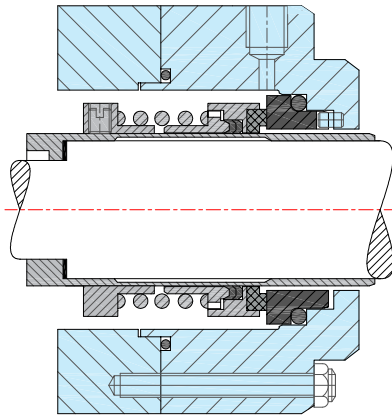
MACENG ENGINEERING, A world wide service in engineering sealing How MACENG Builds a better more reliable mechanical seals for any rotating shaft From Greasy String for packaging glands to sophisticates mechanical seals and gland packaging for pumps compressor nusing vessel and other rotating machinery-that is the history of our products developments. Products innovation, however is only a part of the story. Advice on how to obtain the most satisfactory product use is available through our highly technical and work experience in fluid sealing system. The MACENG ENGINEERING, was organized for one specific purpose to design, build test and deliver precision shaft seals that are reliable and long lasting.

"MACENG ENGINEERING" are engineered & designed to exceed the requirement of all industries served. The seals have been designed to fit into standard stuffing boxes as well as being manufactured to high material specification. It has also been designed to give a high degree of interchangeability between various international standard and other mechanical shaft seals manufacturer. In industries, a large number of seals are used to meet the many and varying problem presented by fluid sealing needs, such as chemical industry, petrochemistry, petroleum industry, mechanical engineering including pumps, coal pressure gasification, conventional as well as nuclear power station, aerospace industry for sealing gas turbine shaft, ship building hydraulic engineering, sewerage treatment, paper industry, sugar industry, textile industry and many other.

How we do is simple, first by experience MACENG ENGINEERING design and development engineers are pioneers in mechanical sealing and have produced many of the basic pateusts improvement and advanced concepts in sealing over the years, superior heart of Chemical Plants gives the round the clock performance for critical duty applications. We carry with us a reputation for honesty, accuracy, and customer satisfaction within the seal industry. - We have an extensive knowledge of the mechanical seal industry.



Series **MESS01** are **single coil spring unbalanced seals** designed for dirty media and clogging type application. These seal are not effected by the direction of shaft rotation, as it is driven by lugs. The PTFE double V-Packing's help to get perfect dynamic sealing. These seal are ideal to minimize the stock as the seal components are interchangeable.



Material

Seal face : Carbon, ceramic, silicon tungsten carbide,
Secondary sealing : Viton, GFT, PTFE, Aflas
Metal parts : SS316 , Hastelloy c, Alloy-20

Operating limit

Seal size : 14 mm to 90mm
Pressure : 10 kg/cm²
Temp : -30°C.... to 150°C
Speed : up to 20 m/s

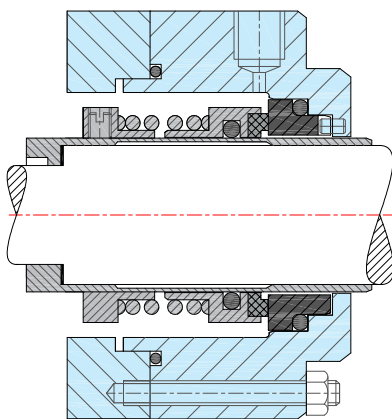
Seal features

Single seal
Inside mounted
Unbalanced

Application

Petrochemicals
General Chemical
Light hydrocarbons
Refineries

Series **MESS02** are **single spring seals**. These seals are easy to install and operate for different application being used in various industries. These seals are compact in design for handling liquids of varying contamination including Slurries Sludge, sewage, Viscous and crystallizing Solution. These Seals are designed in both balanced and unbalanced version based on pressure parameters. Spring clogging does not occur in single spring seals.



Material

Seal face : Carbon, ceramic, silicon tungsten carbide,
Secondary sealing : Viton, PTFE, Aflas
Metal parts : SS316 , Hastelloy c, Alloy-20

Operating limit

Seal size : 14 mm to 90mm
Pressure : 10 kg/cm²
Temp : -30°C.... to 150°C
Speed : up to 20 m/s

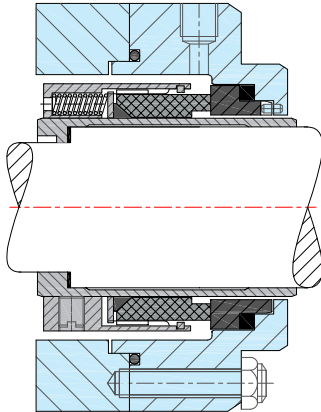
Seal features

Single seal
Inside mounted
Unbalanced
Depended on direction of rotation

Application

Petrochemicals
General Chemical
Light hydrocarbons

Series **MEMS03** are general purpose **multi coil spring unbalanced seals**. These seals are provided with O-Ring Sealing device due to its compact design and narrow cross section, these seals occupies very less area in stuffing box. Lower spring loads provided through wedge or O-Ring minimizes shaft fretting. One can easily assemble and dismantle these seals through the circlip provided. These seals can be changed to balance version of its type merely by changing the carbon face only & can be provided with single, double or tandem arrangement with external seal support system and devices.



Material

Seal face : Carbon, ceramic, silicon tungsten carbide,
Secondary sealing : Viton, GFT, PTFE, Aflas
Metal parts : SS316 , Hastelloy c, Alloy-20

Operating limit

Seal size : 14 mm to 150mm
Pressure : 10 kg/cm²
Temp : -30°C.... To +200°C
Speed : up to 20 m/s

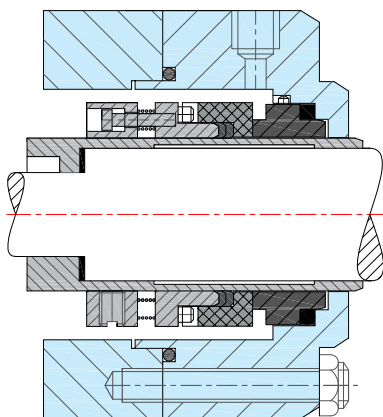
Seal features

Single seal
Inside mounted
Unbalanced

Application

Petrochemicals
General Chemical
Petroleum refinery
Light hydrocarbons

Series **MEMS04** seals are **multiple spring seals**. These seals are available in both balance and unbalance configuration. The rotary unit of these seals are comprises three pieces viz., seal ring, multiple springs & compression ring. The efficient cleaning of accumulations around spring when used in dirty fluids (normally the special feature of the single coil spring design) is achieved by the exposed. These seals are not affected by the direction of shaft rotation.



Material

Seal face : Carbon, ceramic, silicon, tungsten carbide
Secondary sealing : Viton, GFT, PTFE, Aflas, TTV
Material : SS 316 , Hastelloy c , Alloy-20

Operating limit

Seal size : 14 mm to 120mm
Pressure : 10 kg/cm²
Temp : -30°C.... To +200°C
Speed : up to 20 m/s

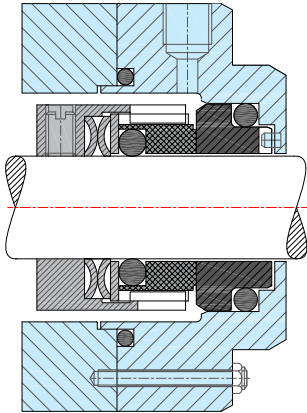
Seal features

Single seal
Inside mounted
Unbalanced
Interchangeable seal face

Application

Petrochemicals
General chemical
Petroleum refinery
Light hydrocarbons

Series **MES05** are **single wave spring seals** for most general application, being used in industries like Paper and Pulp, Sugars, Sewage, Polymer, Rubber etc. Its compact design with reduced axial length is the major advantage of using single wave spring seals. These seal are designed to handle dirty and slurry application as spring clogging does not occur.



Operating limit

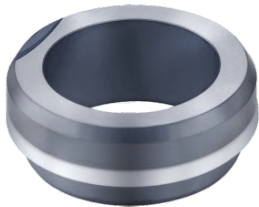
Seal size : 18 mm to 100mm
Pressure : 8 kg/cm²
Temp : -20°C.... To +180°C
Speed : up to 20 m/s

Seal features

Single seal
Inside mounted
Unbalanced
Wave spring loaded seal

Application

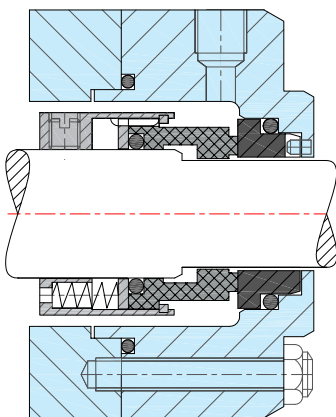
Corrosive chemical
Hydrocarbon
General and light chemical



Material

Seal face : Carbon, Ceramic, Silicon, Tungsten carbide
Secondary sealing : Viton, GFT, PTFE, Aflas, TTV
Material : SS 316, Hastelloy c, Alloy-20

Series **MES06** are **multi coil spring balanced seal** generally used for high pressure sealing purpose in industries like petrochemicals, refineries, fertilizers. These seal occupies lesser space in stuffing box due to its compact radial and axial dimensions. These seals can be provided with single , double or tandem arrangement with external seal support system and devices.



Operating limit

Seal size : 19 mm to 100mm
Pressure : 15 kg/cm²
Temp : -20°C.... To +200°C
Speed : up to 20 m/s

Seal features

Single seal
Inside mounted
Balanced

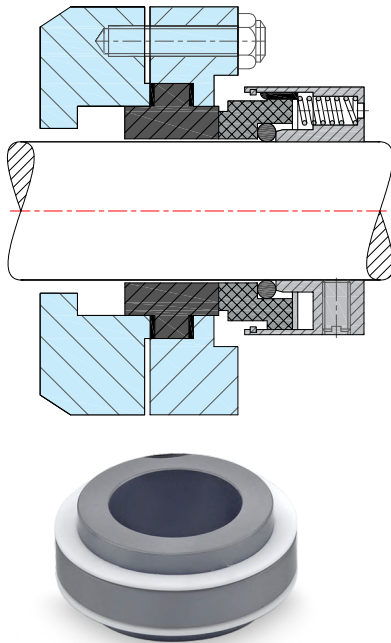
Application

Acids Alkalis
Petrochemicals
General chemical
Petroleum refinery

Material

Seal face : Carbon, ceramic, silicon tungstune carbide,
Secondary sealing : Viton, GFT, PTFE, aflas, TTV
Metal Components : SS-316/Hast-C,Alloy-20

Series **MEMS07** are **multi spring reverse balanced seal**, which are externally mounted. These seals are designed to handle corrosive or abrasive media, as the metal components of these seal do not come in contact with the media to be sealed. Due to its compact design neither radial nor axial extra space is required for installation. These seal can also be installed in double back to back arrangement as internal seal. Though the pressure of the barrier fluid goes down this seal will not allow the process fluid to get mix with barrier fluid, hence it is called a reverse balanced seal.



Material

Seal face : Carbon, Ceramic, Silicon, TC
Secondary sealing : Viton, GFT, PTFE, TTV
Metal Components : SS-316/Hast-C/Alloy-20

Operating limit

Seal size : 19 mm to 100mm
Pressure : 15 kg/cm²
Temp : -20°C.... to 180°C
Speed : up to 20m/s

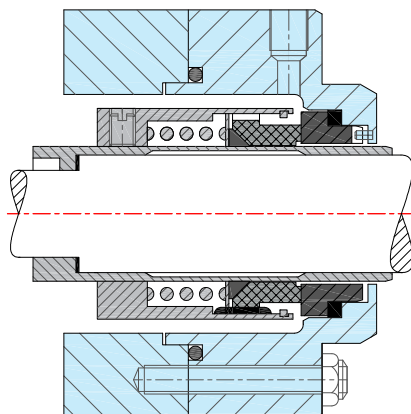
Seal features

Single seal
Outside mounted
Balanced

Application

Corrosive chemical
Hydrocarbon
General and light chemical

Series **MESC08** are **single coil spring seal** designed to handle dirty media and clogging type application. These seal can be easily installed and removed as all the components are help together by a snap ring. These seals are independent on direction of rotation as the torque transmission is done through drive lugs, as the part are interchangeable can be converted into **EMSC08-O** by changing the seal ring and the secondary seal.



Material

Seal face : Carbon, Ceramic, Silicon Tungstun Carbide,
Secondary sealing : Viton, GFT, PTFE, Aflas, Kalrez
Material : SS 316 , Hastolloy c , Alloy-20

Seal features

Single seal
Inside mounted
Unbalanced/ Balance

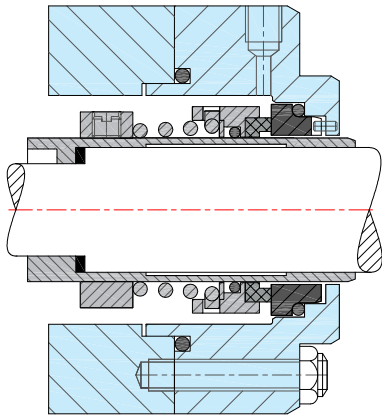
Operating limit

Seal size : 14 mm to 100mm
Pressure : 10 kg/cm²
Temp : -30°C.... To +200°C
Speed : up to 20 m/s

Application

Fertilizers plant
General chemical pump
Petroleum Refinery Light hydrocarbons

Series **MESC09** are **single coil conical spring**, unbalanced seal with O-Ring as a secondary sealing device. These seal are dependent on the direction of rotation, as the torque transmission is done by single conical spring. Direction of rotation is seen from the drive end of the shaft. Right handed springs are provided for clockwise rotating shaft, and left handed spring are provided for anti clockwise rotating shafts. These seal can be easily assembled and dismantled as it consists very few parts. Due to its compact design no axial or radial extra space is required for installation. These seals are designed to handle contaminated liquids, hence spring clogging does not occur.



Operating limit

Seal size : 14 mm to 120mm
Pressure : 10 kg/cm²
Temp : -20c.... to 180c°
Speed : up to 15 m/s

Seal features

Single seal
Inside mounted
Unbalanced
Depended on direction of rotation

Application

Water pump circulation
Pump chemical process pump
Sewage & submersible pump

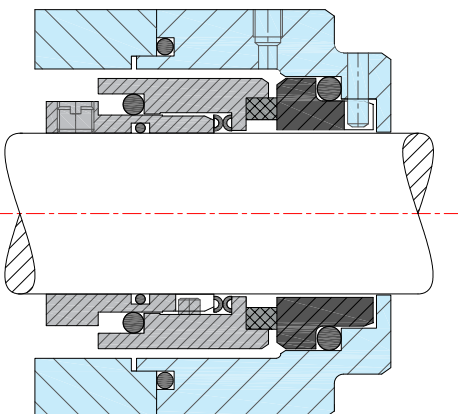
Material

Seal face : Carbon, Ceramic, Silicon, Tungsten Carbide
Secondary sealing : Viton, GFT, PTFE, Aflas
Metal Components : SS-316/Hast-C/Alloy-20



Capsulated Multi Spring Seal

Series **MECM10** is a **multiple springs** unit specially developed for slurry application. The springs are protected from media by means of dynamic O-ring. Although being a balance seal no need to maintain step sleeve. The sleeve of unbalanced seal can be used for this seal series without modification. Torque transmission to the seal ring is given by strong multiple drive pins / lugs.



Operating limit

Seal size : 20 mm to 100mm
Pressure : 10 kg/cm²
Temp : -20C.... To +140C°
Speed : up to 20 m/s

Seal features

Single seal
Inside mounted
Balanced
Capsulated Spring
Independed on direction of rotation

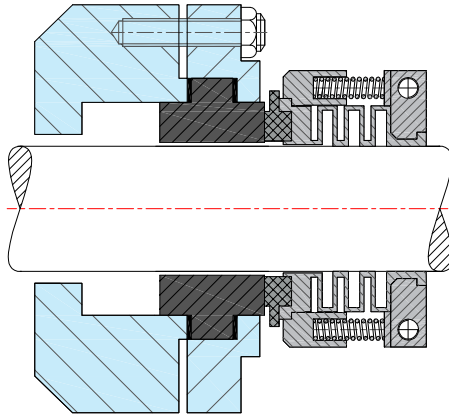
Application

General Chemical
Food Industries
Media Containing Slurry
Mining Industry

Material

Seal face : Carbon, ceramic, silicon tungstune carbide,
Secondary sealing : Viton, PTFE, aflas, TTV
Metal Components : SS-316/Hast-C,Alloy-20

Series **METB11** are **Teflon Bellow Seals** designed to handle highly corrosive chemical, such as concentrated acids, caustic, strong oxidizing and reducing agents, and chemically active organic components. These seals are externally mounted with easy installation procedure. These seal can be offered in composite or replaceable face design, replaceable face version give flexibility to select face material for the media to be sealed. All the components which come in contact with media to be sealed are made of chemically inert material, hence it is effective and reliable to perform against extreme corrosive media. Metallic Components such as clamping ring and spring does not come in contact with the media to be sealed.



Operating limit

Seal size : 18 mm to 100mm
Pressure : 06 kg/cm²
Temp : -20°C.... To +110°C
Speed : up to 20 m/s

Seal features

Single seal
Outside mounted
Unbalanced
Teflon bellow seal with replaceable Sic face

Application

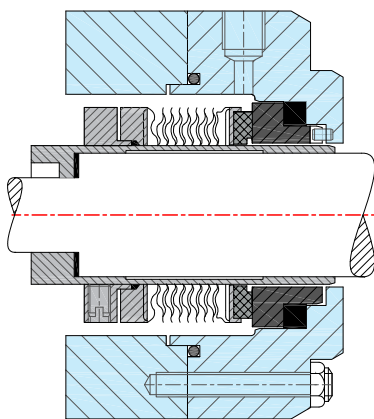
Extremely corrosive service & acids
Alkalis

Material

Seal face : Carbon, Ceramic, Silicon, GFT
Secondary sealing : PTFE Bellow
Metal components : SS 316, Hastolloy c, Alloy-20



Series **MEWMB12** Seals are **welded metal bellow seal** being used in chemical ,petrochemical refineries for high temperature application. Use of spring is eliminated in these seals, because of incorporated flexibility in the metallic bellow. These Seals are non-pusher and balanced in nature having self-cleaning action. These seals do not required secondary sealing devices like o-rings or wedges, hence shaft fretting in avoided.



Operating limit

Seal size : 20 mm to 90 mm
Pressure : 12 kg/cm²
Temp : -20°C.... To 400°C
Speed : up to 20 m/s

Seal features

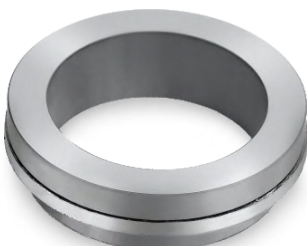
Single seal
Inside mounted, Unbalanced
Depended on direction of rotation
Welded metal bellow

Application

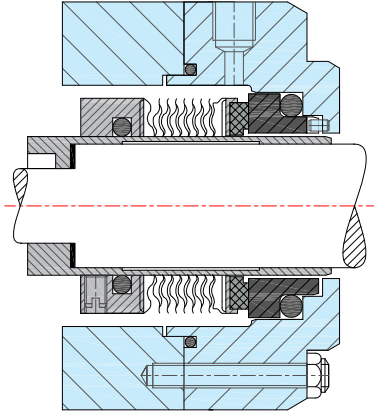
Petrochemicals
Petroleum refinery
Oil refinery
Nuclear plant

Material

Seal face : Carbon, Silicon, Tungsten Carbide
Secondary sealing : Grafoil,
Welded bellow : SS 316, AM-30, Hastelloy-c,
Titanium, Alloy-20



Series **MEWMB13** are **welded metal bellow seals** designed to handle moderate temperature applications, corrosive as well as abrasive and viscous media. These seals are independent of direction of rotation and are widely used in refineries, petrochemicals and chemical industries. The possibility of seal hang-up is prevented as there is no dynamic 'o' ring used in this type of seal, hence static O-ring is used as a secondary member.



Operating limit

Seal size : 25 mm to 100mm
Pressure : 12 kg/cm²
Temp : -20°C.... To +250°C
Speed : up to 20 m/s

Seal features

Single seal
Inside mounted
Unbalanced
Welded metal bellow

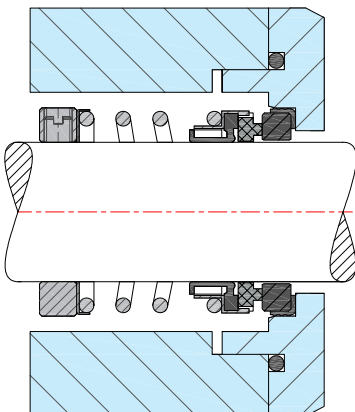
Application

Petrochemical refinery, oil refinery

Material

Seal face : Carbon, Silicon, Tungsten Carbide
Secondary sealing : Viton, PTFE, Kalrez,
Metal components : SS 316, Am 350, Hastelloy c, Alloy-20

Series **MESCS14** are **single coil spring seals** with elastomeric bellow used for general, non-critical and light applications like water, oil, etc. These seals are not effected with the direction of rotation, as the acting torque is not transmitted through the coil spring. Single coil spring are provided for non-clogging, self-cleaning operation, and elastomeric bellow for self-alignment in case of radial and axial play in shaft, notches provided on seal faces and retainer gives extra positive drive.



Operating limit

Seal size : 20 mm to 90 mm
Pressure : 10 kg/cm²
Temp : -20°C.... To 150°C
Speed : up to 20 m/s

Seal features

Single seal
Inside mounted
Unbalanced
Elastomer bellow seal

Application

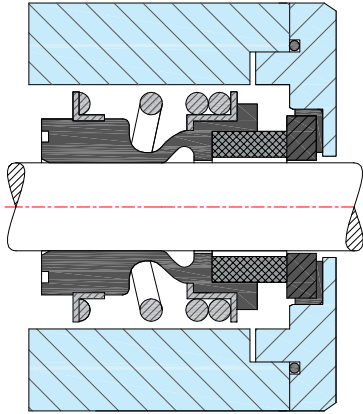
Water pump, Gear pump,
Refrigeration compressor
Fuel injection pumps
Submersible pumps, Sewage pump

Material

Seal face : Carbon, Ceramic, Silicon Tungsten
Carbide, Chrome cast
Secondary sealing : Viton, Nitrile, Neoprene



Series **MESCS15** are **single coil spring elastomer bellow seals**, being designed for general sealing purpose including easy installation of the seal. These seals have a unique rubber bellow secondary seal with self-aligning features which compensates abnormal shaft end play and run-out to provide service life. Shaft / sleeve fretting is avoided due to elastomeric bellow, the seal faces are driven through coil spring and spring holder.



Material

Seal face : Carbon, Ceramic, Silicon Tungsten Carbide
Secondary sealing : Viton, Nitrile, Neoprene, EPDM

Operating limit

Seal size : 12 mm to 100mm
Pressure : 10 kg/cm²
Temp : -20°C.... to + 160°C
Speed : up to 20 m/s

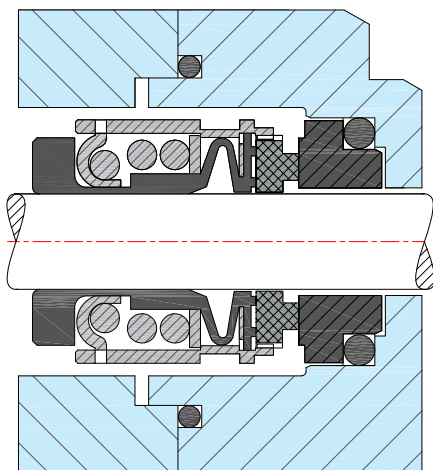
Application

Waste water pump
Submersible pump
Sewage pump

Seal features

Single seal
Inside mounted
Unbalanced
Depended on direction of rotation
Elastomer bellow seal

Series **MESCS16** are **single coil spring elastomer bellow seals**, being designed for general sealing purpose including easy installation of the seal. These seals have a unique rubber bellow secondary seal with self aligning features which compensates abnormal shaft end play and run-out to provide service life. Shaft / sleeve fretting is avoided due to elastomeric bellow notches provided on seal faces and retainer gives extra positive drive.



Material

Seal face : Carbon, Ceramic, Silicon, TC
Secondary sealing : Viton, Neoprene

Operating limit

Seal size : 20 mm to 60 mm
Pressure : 8 kg/cm²
Temp : -20°C.... to + 120°C
Speed : up to 25 m/s

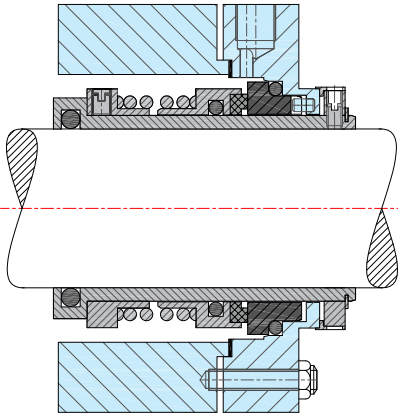
Seal features

Single Seal
Inside mounted
Unbalanced
Depended on direction of rotation
Elastomer Bellow Seal

Application

Water Pump
Submersible Pump
Sewage Pump
Dyeing Machine

Series **MESCS101** are **single acting pre-assembled cartridge mechanical seals**, which could be directly installed without any dimensional adjustment during installation. These cartridge balanced seals are independent of direction of rotation being designed to handle slurries, sludge, thick syrup and polymerising fluids. The spring provided in the cartridge construction are being isolated from the fluid enhancing the seal life.



Operating limit

Seal size : 20 mm to 100mm
Pressure : 10kg/cm²
Temp : -20°C.... to 150°C
Speed : Up to 20 m/s

Seal features

Single seal, Inside mounted
Unbalanced
Dependent on direction of rotation
Easy Installation, Field repairable
Interchangeable mating rings & seal ring

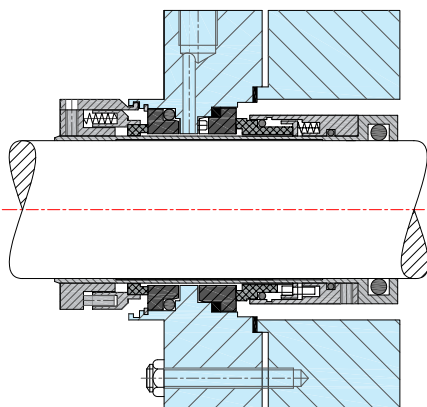
Application

General Chemicals
Food industries

Material

Seal face : Carbon, Ceramic, Silicon, Tungsten Carbide
Secondary sealing : Viton, PTFE, GFT

Series **MEDCS102** are **double acting cartridge mechanical seals** having integral sleeve and gland plate. These multi spring design seal are pre-assembled, which could be directly installed without any dimensional adjustment during installation. These seals are balanced, independent of direction of rotation and are offered in back to back and tandem arrangements as per API plan-53



Operating limit

Seal size : 20 mm to 100mm
Pressure : 10kg/cm²
Temp : -20°C.... to 180°C
Speed : up to 20 m/s

Seal features

Double seal, Cartridge unit
Inside Mounted, Balanced
Easy Installation, Field repairable
Interchangeable mating rings & seal ring

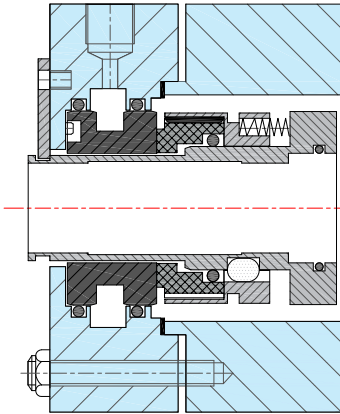
Application

Pulp & paper industries
Chemical industries Slurry Pump
Sludge Pump

Material

Seal face : Carbon, Ceramic, Silicon, Tungsten Carbide
Secondary sealing : Viton, PTFE, GFT, Kalrez, Aflas
Metal Components : SS 316 / Hastelloy c / Alloy -20

Series **MECS103** are **high pressure cartridge seal** designed for high pressure applications, like hot water, crude oil, light hydrocarbons. These seal are provided with single, double or tandem arrangement, which are widely used for applications such as boiler feed water pumps, main crude oil transportation pump and multi-phase pumps. Its sturdy designed and drive arrangement makes the seal suitable for high pressure applications. Multiple spring designed provides uniform face loading.



Operating limit

Seal size : 25 mm to 100mm
Pressure : 30kg/cm²
Temp : -30°C.... to 280°C
Speed : up to 20 m/s

Seal features

Single seal
Inside mounted
Balanced
Independed on direction of rotation

Application

Boiler feed hot water pump
Light Hydrocarbons

Material

Seal face : Carbon, Ceramic, Silicon, Tungsten Carbide
Secondary sealing : Viton, Kalrez, Aflas
Metal Components : SS 316 / Hastelloy c / Alloy -20

Series **MESS104 Split Seal** is a specially designed mechanical seal or oil seal that is manufactured in two separate halves. It allows installation and removal without dismantling the complete shaft, equipment, or machinery.



Operating limit

Shaft Diameter : 20 mm to 1000 mm+
Pressure : Up to 25 bar
Temp : -20°C to 250°C
Speed : Up to 25 m/s

Application

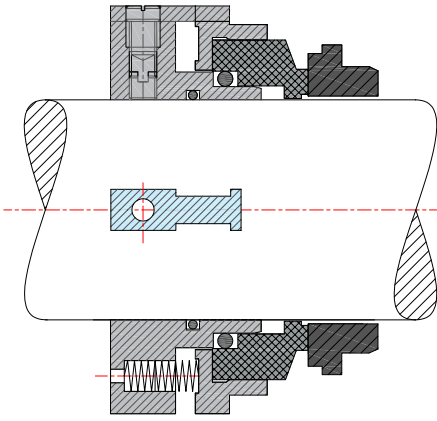
Pumps
Agitators
Gearboxes
Conveyors
Marine shafts
Chemical reactors & Food processing machines



Material

Stainless Steel (SS304 / SS316)
Hastelloy
Alloy Steel

Series **MESM105** is a **single acting multi spring**, externally mounted reverse balanced dry seal with O-ring as a secondary sealing member for glass lined, ss mixers, agitators and reactor vessels. These seals are basically used on top entry agitators for food and pharmaceutical industries where contamination of the media with any other liquid inside the agitator is not permissible. These seals do not require any external lubrication to the seal faces, hence these seals are known as dry running seals.



Operating limit

Seal size : 25 mm to 150mm
Pressure : 8 kg/cm²
Temp : -20°C.... to 120°C
Speed : 200 rpm

Seal features

Single seal
Outside mounted
Balanced
Dry Running seal

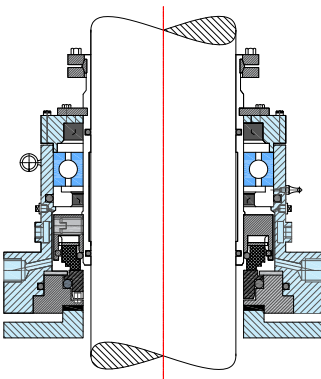
Application

Corrosive chemicals
General light chemicals
Food Product
Pharmaceutical products

Material

Seal face : Carbon, Ceramic, Silicon, Tungsten carbide
Secondary sealing : Viton, GFT, PTFE, TTV
Metal components : SS316 / Hastelloy c / Alloy -20

Series **MESAS106** are factory assembled **single agitator seals** which are dynamically tested being used for steel, glass lined, ss mixers, agitators and reactor vessels. Clean soft water is mainly preferred because of its good heat transfer qualities, as these seals are used with non pressurised barrier fluid. To ensure cool running these seals can be supplied with cooling water jacket.



Operating limit

Seal size : 20 mm to 140mm
Pressure : Under Vacuum to 8 kg/cm²
Temp : -20°C.... to 150°C
Speed : up to 25 m/s

Seal features

Single seal, Cartridge unit
Inside mounted, Balanced
Easy Installation, Field repairable
Interchangeable mating rings & seal ring

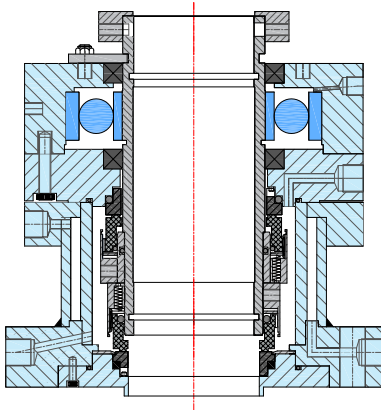
Application

Pharma industries
Chemical industries
Foods industries

Material

Seal face : Carbon, Ceramic, Silicon, Tungsten Carbide
Secondary sealing : Viton, PTFE, GFT, FEP, TTV
Metal Components : SS 316 / Hastelloy c / Alloy -20

Series **MEDCS107** are pre-assembled **double mechanical cartridge seals**, used for glass lined, steel, agitators, mixers and vessels. The construction of seal slightly change for top entry, side entry and bottom entry vessels. The design incorporates bearing located very close to the seal. These seals are supplied with cooling jacket, to maintain cool environment around the seal. Large clearance between shaft / sleeve and mating ring permits higher deflection of the shaft.



Operating limit

Seal size : 25 mm to 140mm
Pressure : under vacuum to 20 kg
Temp : ambt..... to 200°C
Speed : 250 rpm

Seal features

Double back to back seal
Cartridge type seal
Unbalanced
Operated with pressurized barrier fluid

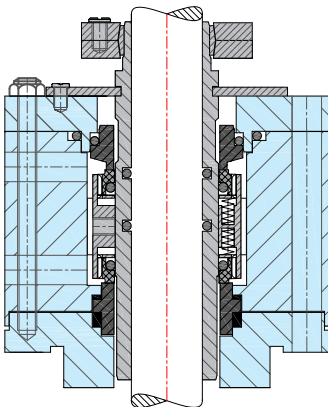
Application

Paper Industries
Pharmaceutical industries
General chemicals and its vapours
Petrochemical and its vapours
Light hydrocarbon and its vapours

Material

Seal face : Carbon, Silicon carbide, Ceramic, Tungsten carbide
Secondary sealing : Viton, GFT, PTFE, TTV, FEP
Metal components : SS 316 , Hastelloy c, Alloy-20

Series **MEDMS108** seals employ **dual balanced multispring seals** with dynamic 'O'-ring of bigger cross section for higher reliability. Seal ring is of heavy duty design and stationary face is hydraulically balanced to avoid accidental pop-up.



Operating limit

Seal size : 25 mm to 120mm
Pressure : under vacuum to 15 kg
Temp : ambt..... to 200°C
Speed : 250 rpm

Seal features

Double back to back seal
Cartridge type seal
Unbalanced

Application

Paper Industries
Pharmaceutical Industries
General chemicals and its vapours

Material

Seal face : Carbon, Silicon Carbide, Ceramic, TC
Secondary sealing : Viton, GFT, PTFE, TTV, FEP
Metal Components : SS 316, Hastelloy-c, Alloy-20

Thermosyphon

Series **METS** is a **thermosyphon system**, which is basically used as a storage and pressurising unit. Using thermosyphon system it is possible to supply barrier fluid to double mechanical seal in back to back or tandem arrangement. The pressure of barrier fluid is higher than the pressure of the fluid to be sealed. The temperature of the barrier fluid from seal to thermosyphon is controlled by the cooling coil inside the shell.



Material

Contents of tank : 10 litres
Operating Volume : 2 litres
Operating Pressure : 20 kg/cm²
Working Temperature : -60°C to +200°C
Hydraulic test pressure – 15 bar
Cooling water inlet- ½" npt
Cooling water outlet ½" npt
Barrier fluid inlet – ½" npt
Barrier fluid outlet- ½" npt
Drain- ½" npt

Metal Parts

Thermosyphon shell : Carbon steel / SS 304 / SS 316
Cooling coil : SS 304 / SS 316
Empty weight : 34 kg (Approx)

Rotary Joint (EMRJ)



Material

Seal face : Tungsten Carbide, Silicon Carbide, Carbon
Secondary sealing : Viton, Nitrile, PTFE, Silicon, Kalrez

Features

The housing made with G.M. / Brass, the rest of metallic components are made with S.S.

Size

3/8" BSP to 4" BSP

Threaded Rotor :

As Per ISO 228 / Npt / Metric
#optional : Quick Release Nipple [flanged End]

Body :

Radial or Axial R.H. FEMALE THREAD AS PER ISO 228 OR NPT

Temperature (max) :

Water : 95°C
Thermic Fluid : 250°C
Steam : 150°C

PRESSURE (Max) :

Water : 10 Kg
Thermic Fluid : 10 Kg
Steam : 10 Kg

SPEED (Max) :

Size : 1/2" - 3/4" - 1440 RPM
Size : 1" - 2" - 1000 RPM

APV SEAL



MODY TYPE



G02



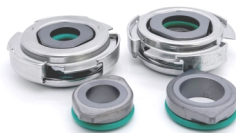
G03



G04



G05



JC TYPE-1



EBARA



WB-3



FLYGT



GLF Cartridge



MG1/12/13



HIDROSTAL



G02-GLF-B



CHL



**STOCK
& CLOSE**



**LOWARA
XYLEM**



**GRUNDFOS
S-E**



**ALFA LAVAL
LKH-DOUBLE**



TEIKOKU



**FRISTAM
Single & Double**



155 - J1



**SINGLE
ROBIN**



DOUBLE ROBIN



**GLF FLANGE
TYPE 3R-4R**



**DIAPHRAGM
SEAL**



**ALFA LAVAL
EM-FM**



502



CARBON & SIC BUSH



JC 2100/K/N



High Pressure Multi Stage Pumps Mechanical Seal



Plain Diffuser, Bearing Diffuser, Top Diffuser, Bottom Diffuser



Bearing Bush MOC TC/SIC



High Pressure Multi Stage Pump Shaft 2 to 90 Series



SPARES SS CHECK NUT - PLUG - RUBBER BUSH - SPACER SLEEVE



Rubber & Teflon Product

Rubber and Teflon are widely used materials in industrial and daily-use applications. Both have different properties and uses.

Rubber Products

Rubber is a flexible, soft, and shock-absorbing material.

Common Rubber Products

Rubber gaskets
Rubber bushes
Industrial rollers

Advantages of Rubber

Highly flexible
Water resistant
Absorbs vibration and shock
Provides good grip

Applications of Rubber

Automobile industry
Electrical products
Plumbing systems
Industrial machinery
Construction industry



Teflon is a non-stick and high-temperature-resistant material. Its actual material name is PTFE (Polytetrafluoroethylene).

Common Teflon/PTFE Products

Teflon rods
PTFE sheets
PTFE gaskets
PTFE tape
Teflon bushes
PTFE washers
Non-stick coatings
PTFE tubes

Advantages of Teflon/PTFE

Excellent heat resistance
High chemical resistance
Non-stick surface
Low friction
Excellent electrical insulation

Applications of Teflon/PTFE

Chemical industry
Pharmaceutical industry
Electrical insulation
Food processing machines
High-temperature applications



Bearing Isolator

A Bearing Isolator (also commonly known as a Bearing Protector) is a dynamic, non-contact, permanent bearing protection device.

Its primary purpose is to prevent external contaminants (such as water, dust, and moisture) from entering the bearing housing, while simultaneously preventing the internal lubricant (oil or grease) from leaking out. Unlike traditional lip seals, it is an engineered, long-term solution design equipment.

Technical Data

Standard Material – Bearing Bronze
Axial Movement – 0.13 mm (0.005 in.)
Radial Movement – 0.38 mm (0.01 in.)
Temperature Range – -26°C (-15°F) to 121°C (250°F)
Speed – 10,000 sfpm
Standard Overall Length – 9.52 mm (0.375 in.)
Shaft Size – 15.88 mm (0.625 in.) to 101.6 mm (4.000 in.)





MACENG
ENGINEERING



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MICRO, SMALL & MEDIUM ENTERPRISES



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