

*Prominent  
Manufacturer of  
Mechanical Seals,  
Rotary Unions, and  
Pump Components*

[www.precisioseals.com](http://www.precisioseals.com) 



**PRECISIO SEALS<sup>®</sup>**  
ENGITECH LLP

*Powering smart world...*

AN ISO 9001 : 2015 CERTIFIED COMPANY

Prominent Manufacturer of Mechanical Seals, Rotary Unions & Pumps Components.

Precisio Seals Engitech LLP is manufacturer of all types of pump spares & industrial mechanical seals with excellent combination of advance technology & high profile skills.

We introduce ourselves as one of the high skilled manufacturers of great quality mechanical seals. We, Manufacture a wide range of Mechanical Seals from simple water pump Seals to highly sophisticated pressure balanced & hydro dynamic balanced seals. Our product portfolio includes Single, Multiple & Conical Spring Seal, Rubber, Teflon & Metal Bellow Seal, Single & double Cartridge Seals, Agitator, Compressor & Dry Seal, etc. We serve Petrochemicals, Refineries, Powder, Food Industries, Agrochemicals, Steel, Chemical & Fertilizers, Water Treatment Pulp, Paper & Textile Mills, Paint & Ink, Pharmaceuticals and other industries across India & Overseas ensuring prompt delivery and support to our clients worldwide.

### AN ISO 9001 : 2015 CERTIFIED COMPANY

We have adopted a quality and customer centric approach in all our endeavours.

We also offer customized products and solutions as per the requirements of our customers. We are successful in satisfying the demands of our customer at a reliable cost. " Customer satisfaction is our only motto !"



LET'S BUILD A SMART WORLD

**AIM TO BUILD A SMART  
WORLD THROUGH THE  
BEST TECHNOLOGY  
AND AMPLE  
EXPERIENCE.**





## SINGLE SPRING MECHANICAL SEAL

TYPE-PS21SS

### FEATURES

Maintenance free, Optimum thickness, Long Service Life, Inside Mounted.

### OPERATING LIMITS

Shaft Dia 15mm to 90mm

Pressure 10 bar (max)

Temperature -23°C to 180°C

Speed 2900 RPM (max)

### METAL COMPONENTS

S.S.316, S.S.304.

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE,  
TUNGSTEN CARBIDE, STELLITE.

### SECONDARY SEALING

TTV, GFT, SILICON, VITON, PTFE.

### APPLICATION

Chemical Process Pump, Oil Refineries,  
Thermal Power Plants, Nuclear Plant,  
Petroleum, Paper, Pulp Industries &  
all the Marine Industries.



## MULTI SPRING MECHANICAL SEAL

TYPE - PS79MS

### FEATURES

Unbalance seal, Inside mounted, Maintenance Free,  
Multi spring design, Long life service.

### OPERATING LIMITS

Shaft Dia 14mm to 100mm

Pressure 10 bar (max)

Temperature -20°C to 200°C

Speed 2900 RPM (max)

### METAL COMPONENTS

SS 316, SS 304

### SEAL FACE MATERIALS

Silicon Carbide, Tungsten Carbide, Ceramic,  
Carbon-M, Carbon-R.

### SECONDARY SEALING

EPDM, TTV, SILICON, VITON,  
PTFE, NEOPRENE, NITRILE.

### APPLICATION

Chemical Pumps, Petrochemical  
Industries, Corrosive Chemical Pumps,  
High Pressure Pump Acid Pump.







## D TYPE MULTISPRING

TYPE-PS76DMS

### MECHANICAL SEAL

#### FEATURES

Maintenance free, Long Service Life , Optimum thickness, Inside Mounted.

#### OPERATING LIMITS

Shaft Dia 20mm to 100mm

Pressure 25 bar(max)

Temperature -20°C to 180°C

Speed 2900 RPM(max)

#### METAL COMPONENTS

SS 316, SS 304

#### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN - CARBIDE, STELLITE.

#### SECONDARY SEALING

SILICON, VITON, PTFE, NITRILE, EPDM

#### APPLICATION

Generally used in Chemical Process Pump, Oil Refineries, Thermal Power Plants, Nuclear Plant, Petroleum, Paper, Pulp Industries & all the Marine Industries.



## CONICAL SPRING MECHANICAL SEAL

TYPE - PS38CS

#### FEATURES

Acid & Acidic Fluids , General & Light Chemical, Extremely Corrosive services

#### OPERATING LIMITS

Shaft Dia 12mm to 90mm

Pressure 10 bar (max)

Temperature -20° to 120°

Speed 2900 RPM (Max)

#### METAL COMPONENTS

SS 316, SS 304

#### SEAL FACE MATERIALS

Carbon, Silicon Carbide, Tungsten Carbide, Stellite

#### SECONDARY SEALING

SILICON, VITON, PTFE, NEOPRENE, EPDM.

#### APPLICATION

Maintenance Free, Leak Proof, Optimum Thickness, Inside Mounted General Chemical, Sewage Plant, Waste Water







## WAVE SPRING MECHANICAL SEAL

TYPE - PS82WS



### FEATURES

Universal Application Opportunities, Self Cleaning Effect.

### OPERATING LIMITS

Shaft Dia 14mm to 100mm

Pressure 16 bar (max)

Temperature -45° to 200°

Speed 2900 RPM (Max)

### METAL COMPONENTS

SS 316, SS 304,

### SEAL FACE MATERIALS

Carbon, Silicon Carbide, Tungsten Carbide, Ceramic(99.5%), Stellite.

### SECONDARY SEALING

EPDM, TTV, GFT, SILICON, VITON, PTFE, NEOPRENE.

### APPLICATION

Paper & Pulp Industries, Sugar , Waste Water Dairy industries, Clean Water, Sewage Water, Oil Refineries.

## CAPSULATED SPRING MECHANICAL SEAL

TYPE - PS97HJ



### FEATURES

Single Acting, Inside Mounted, Dependent Of Direction Of Rotation.

### OPERATING LIMITS

Shaft Dia 18mm to 100mm

Pressure 20 bar (max)

Temperature -20°C to 160°C

Speed 2900 RPM (max)

### METAL COMPONENTS

S.S.316, S.S.304.

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE, STELLITE.

### SECONDARY SEALING

ELOSTOMER "O" RING, SILICON, VITON, PTFE, TCV.

### APPLICATION

Chemical Process Pump, Oil Refineries, Thermal PowerPlants, Nuclear Plant, Petroleum, Paper, Pulp Industries & all the Marine Industries.



## TEFLON BELLOW MECHANICAL SEAL

TYPE - PS25TB



### FEATURES

Single acting, Outside mounted, Independent of direction, Balanced.

### OPERATING LIMITS

Shaft Dia 18mm to 100mm

Pressure 4 bar (max)

Temperature -40° to 120°

Speed 2900 RPM (Max)

### SEAL FACE MATERIALS

Carbon, Silicon Carbide, Ceramic (99.5%), GFT, CFT, SIC.

### SECONDARY SEALING

PTFE

### METAL COMPONENTS

SS 316, SS 304, Monel, Alloy - 20, Hastelloy - C ,

### APPLICATION

Acid & Acidic Fluids , General & Light Chemical, Extremely Corrosive services

## METAL BELLOW MECHANICAL SEAL

TYPE - PS21MB



### FEATURES

Long life, Durability, Abrasive resistance, Slip free, Stick free, Simple installation, High static and dynamic sealing Extrusion free, With standing a very high range of temperature and pressure, High abrasion resistance.

### OPERATING LIMITS

Shaft Dia 20mm to 100mm

Pressure 18 bar (max)

Temperature -20°C to 300°C

Speed 2900 RPM (max)

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE, STELLITE.

### SECONDARY SEALING

EPDM, AFLAS, VITON, PTFE, NEOPRENE.

### METAL COMPONENTS

SS 316, SS 304,

### APPLICATION

Food Industries, Hot Oil, Beverages industries for beer, fruit juices and fruit syrups, Water businesses for containing RO water and purified water, Dying and pigmenting industries Textile industry, Water proofing industry, Water treatment plants, etc.



## RUBBER BELLOW MECHANICAL SEAL

TYPE - PS36RB



### FEATURES

Long service life, Unparalleled quality, Bendable.

### OPERATING LIMITS

Shaft Dia 10mm to 100mm

Pressure 12 bar (max)

Temperature -20°C to 150°C

Speed 2900 RPM (max)

### METAL COMPONENTS

SS 316, SS 304

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE.

### SECONDARY SEALING

NBR, EPDM, VITON, SILICON

### APPLICATION

Chemical Pumps, Petrochemical Industries, Corrosive Chemical Pumps, High Pressure Pump, Fuel injection pumps.

## UTILITY MECHANICAL SEAL

TYPE - PS44GF



### FEATURES

Maintenance free, Optimum thickness, Inside Mounted, Long Service Life.

### OPERATING LIMITS

Shaft Dia 12mm, 16mm, 22mm

Pressure 10 bar (max)

Temperature -20°C to 200°C

Speed 2900 RPM (max)

### METAL COMPONENTS

SS 316, SS 304

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE

### SECONDARY SEALING

SILICON, VITON, NEOPRENE.

### APPLICATION

Chemical Process Pump, Oil Refineries, Thermal Power Plants, Nuclear Plant, Petroleum, Paper, Pulp Industries.





## JET FLOW MECHANICAL SEAL

TYPE - PS96JF



### FEATURES

The mechanical drive of this seal is realised by grub screw which lock onto the shaft. Balanced Single spring seals has a limited axial length, compact shape which allows easy mounting. Balance and unbalanced version can just be obtained by simply changing the carbon face assembled through circlip provided.

### OPERATING LIMITS

Shaft Dia 18mm to 100mm

Pressure 10 bar (max)

Temperature -60°C to 200°C

Speed 2900 RPM (max)

### METAL COMPONENTS

SS 316, ALLOY 20, 904L

### SEAL FACE MATERIALS

CARBON, SILICON CERAMIC, TUNGSTEN CARBIDE.

### SECONDARY SEALING

EPDM, SILICON, VITON, NEOPRENE.

### APPLICATION

Chemical Process Pump, Oil Refineries, Thermal Power Plants, Nuclear Plant, Petroleum, Paper, Pulp Industries & all the Marine Industries.

## REVERSE BALANCE MECHANICAL SEAL

TYPE-PS44RVB



### FEATURES

Maintenance free, Optimum thickness, Inside Mounted, Long Service Life.

### OPERATING LIMITS

Shaft Dia 25mm to 150mm

Pressure Upto 25 bar (max)

Temperature -25°C to 250°C

Speed 2900 RPM (max)

### METAL COMPONENTS

SS 304, SS 316, HASTALLOY C

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE

### SECONDARY SEALING

VITON, PTFE, EPDM

### APPLICATION

Chemical Process Pump, Oil Refineries, Thermal Power Plants, Nuclear Plant, Petroleum, Paper, Pulp Industries.



## DOUBLE MECHANICAL SEAL

TYPE - PS55DM



### FEATURES

Muddy water, sewage water and weakly corrosive fluids with solid grains.

### OPERATING LIMITS

Shaft Dia 14mm to 100mm

Pressure 20 bar (max)

Temperature -20°C to 180°C

Speed 2900 RPM (max)

### METAL COMPONENTS

SS 316, SS 304.

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE.

### SECONDARY SEALING

NBR, EPDM, VITON. SILICON, TCV.

### APPLICATION

Chemical Process Pump, Oil Refineries, Thermal Power Plants, Nuclear Plant, Petroleum, Paper, Pulp Industries & all the Marine Industries.

## SINGLE CARTRIDGE MECHANICAL SEAL

TYPE - PS10SC



### FEATURES

High speeds - Stationary multi-spring design for even face loading high pressures - Robust seal-faces minimize the effects of pressure distortion Monolithic seal-faces maintain flatness under temperature fluctuation.

### OPERATING LIMITS

Shaft Dia 25mm to 200mm

Pressure 15 bar (max)

Temperature -25°C to 180°C

Speed SUBJECT TO APPLICATION

### METAL COMPONENTS

SS 316, SS 304.

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE, STELLITE.

### SECONDARY SEALING

EPDM, TTV, SILICON, VITON, PTFE, NEOPRENE.

### APPLICATION

Chemical Process Pump, Oil Refineries, Thermal Power Plants, Nuclear Plant, Petroleum, Paper, Pulp Industries & all the Marine Industries.



## DOUBLE CARTRIDGE MECHANICAL SEAL

TYPE - PS11DC



### FEATURES

Dry/ wet running option, For vessel pressure upto 6 bar,  
Un-pressurised sealant, Cartridge construction, extended service life

### OPERATING LIMITS

Shaft Dia 25mm to 150mm

Pressure Up to to 15 Bar

Temperature - 30° C to 260° C

Speed 3000 RPM (max)

### SEAL FACE MATERIALS

CARBON, TC, SIC,

### SECONDARY SEALING

Viton, PTFE, and FFKM

### METAL COMPONENTS

SS 304, SS 316

### APPLICATION

Double Cartridge Seal are Recommended for Clean and dirty media application . Seal can tolerate reversal pressure. Double Cartridge Seal is Standard for using where Corrosive Liquid are being Processed

## METAL BELLOW CARTRIDGE MECHANICAL SEAL

TYPE-PS22MBC



### FEATURES

Long life, Durability, Abrasive resistance, Slip free, Stick free, Simple installation,  
High static and dynamic sealing Extrusion free, With standing a very high range of  
temperature and pressure, High abrasion resistance.

### OPERATING LIMITS

Shaft Dia 25mm to 150mm

Pressure Upto 25 bar (40\*)

Temperature - 40°C to 450°C

Speed 2900 RPM (max)

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN  
CARBIDE, STELLITE.

### SECONDARY SEALING

GRAPHITE, FLEXIBLE GRAPHITE,  
PTFE

### METAL COMPONENTS

SS 316, SS 304,

### APPLICATION

Food Industries, Hot Oil, Beverages industries for  
beer, fruit juices and fruit syrups, High - temperature,  
corrosive, or dirty media. Refinery, petrochemical & Pulp  
& Paper industries .





## DRY MECHANICAL SEAL

TYPE - PS80DS



### FEATURES

Dry Mechanical Seals are outside mounted balanced mechanical seal, which require no shaft or sleeve step for balancing seal shows good performance in high vacuum conditions. Since no auxiliary equipments are needed for installation, it is very cost effective & economical. These seal can be easily installed & repaired on the field to minimized replacements costs & downtime.

### OPERATING LIMITS

Shaft Dia 20mm to 200mm

Pressure 10 bar(max)

Temperature -20°C to 180°C

Speed 20 m/s

### METAL COMPONENTS

SS 316, SS 304.

### SEAL FACE MATERIALS

ROTARY : CARBON,  
STATIONARY : SILICON

### SECONDARY SEALING

Viton, TTV, FKM, TCV, PTFE,  
EPR, EPDM.

### APPLICATION

Chemical Process Pump, Oil Refineries,  
Thermal Power Plants, Nuclear Plant,  
Petroleum, Paper, Pulp Industries  
& all the Marine Industries.

## SINGLE AGITATOR MECHANICAL SEAL

TYPE-PS90SAM



### FEATURES

Dry/ wet running option, For vessel pressure upto 6 bar, Un-pressurised sealant, Cartridge construction, extended service life

### OPERATING LIMITS

Shaft Dia 25mm to 150mm

Pressure Up to 60 Bars

Temperature Amb... 250°

Speed 500 RPM (max)

### APPLICATION

High Pressure seals that are used for top entry and side entry autoclaves & mixers. These seal are used in all kinds of mixers, reactors, driers in pharmaceuticals, paints, pulp & plastic industries. The seals are factory assembled with cartridge unit, therefore can easily be installed without disturbing the delicate mating faces. For larger shaft deflection special version with integrated floating bearing is provided.

### SEAL FACE MATERIALS

CARBON, SILICON CARBIDE, TUNGSTEN CARBIDE,  
CERAMIC (99.5%), LECROLOY.

### SECONDARY SEALING

GFT, PTFE, ELASTOMER.

### METAL COMPONENTS

SS 316, SS 304.



## DOUBLE AGITATOR MECHANICAL SEAL

TYPE-PS91DAM



### FEATURES

Dry/ wet running option, For vessel pressure upto 6 bar,  
Un-pressurised sealant, Cartridge construction, extended service life

### OPERATING LIMITS

Shaft Dia	25mm to 200 mm
Pressure	Vacuum to 20 Bar
Temperature	Ambient to 250°C
Speed	20 m/sec

### SEAL FACE MATERIALS

CARBON, SIC, CERAMIC

### SECONDARY SEALING

PTFE, Viton, FFKM

### METAL COMPONENTS

SS 304, SS 316, Hastelloy-C

### APPLICATION

Heavy Duty Top Entry Glass Lined Reactors of Chemicals,  
Petrochemicals, Pharmaceuticals, Food & Fertilizers plants

## THERMOSYPHON POT SYSTEM

TYPE-PS300TPS



### FEATURES

A compact pressurizing and cooling unit for Double Mechanical Seals. Ensures continuous barrier fluid circulation, stable temperature, and longer seal life using the thermosyphon principle. Custom capacities available up to 20 Litres.

### OPERATING LIMITS

Pressure : 0-40 Bar
Level Gauge: To indicate Barrier Fluid
Manual Feed Pump : Optional

Available in  
Stainless Steel Grades:  
SS304 / SS316 (optional)

Optional Accessories:  
Pressure gauge, Safety  
relief valve, Thermometer

### SEAL FEATURES

Total Tank Capacity: 10 Litres
Operating Volume: 2 Litres
Maximum Operating Pressure: 20 kg/cm <sup>2</sup>
Working Temperature Range: 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 Connection: ½" npt



## METALLIC PUMP

Code: PS200MP



Robust metallic pumps engineered for reliable, heavy-duty industrial fluid handling.

## BEARING ISOLATOR

Code: PS24MBI



Magnetic bearing isolators that prevent contamination and extend bearing life.

## NON METALLIC PUMP

Code: PS150NMP



Corrosion-resistant non-metallic pumps for safe and reliable handling of aggressive fluids.

## ROTARY UNION

TYPE - PS01RJ & PS01RU



## PUMP SPARES

& Components



## ORINGS & GASKETS







**PRECISIO SEALS®**  
ENGITECH LLP

## WHY WE ARE...?

We manufacture highly efficient and reliable Mechanical Seals for Pumps, Cartridge, Agitators, Reactors, Rotary joints and Rotary unions and all other equipments having rotating shafts. We have got all the necessary plant & machineries and other infrastructure to manufacture quality products. We will constantly endeavor to satisfy our customers by understanding their requirements through active participation and effective communication. We will develop creative solutions to meet these requirements and explore new technologies in anticipation of the changing times.

### We will achieve this through the following objectives :

- ✓ Supplying products complying with agreed specifications free of errors.
- ✓ Developing customer focus in our employees.
- ✓ Developing our employees by technical and quality training.
- ✓ Developing vendors' quality by providing them with technical support.
- ✓ Standardising to reduce inventory and lead times.
- ✓ Reducing our costs through technology, productivity and quality improvements.
- ✓ Providing emergency support to the customer at their site and at our works in case of failures.

### Quality Assurance :

We apply ourselves to perform the right quality and the right time to all customers. We believes that the correct raw material is very important factor for the execution of quality of products.

We believe..



We follow...





## STATE OF THE ART INFRASTRUCTURE

Our infra structural base is backed with the latest machines and modern technology based equipment.

We manufacture highly efficient and reliable Mechanical Seals for Pumps, Agitators, Reactors, Rotary joints and Rotary unions and all other equipments having rotating shafts. We have got all the necessary plant & machineries like and other infrastructure to manufacture quality products. We will constantly endeavor to satisfy our customers by understanding their requirements through active participation and effective communication. We will develop creative solutions to meet these requirements and explore new technologies in anticipation of the changing times.



## Quality Is More Than Making a Valuable Product

At Preciso Seals, quality is our utmost priority. We always ready to adopt new technology for Improving our products quality, durability and Shelf life.

### EMINENT DESIGN



We deliver quality products through the eminent design and creative approach to execute the quality mechanical seal solution.

### QUALITY EXECUTION



Our intense to provide the best quality, fast delivery and great service through active participation and extremely effective communication.

### AMPLE EXPERIENCE



We always keen to develop creative solutions to meet our customer's requirements through the our extensive and ample experience.

## INDUSTRIES WE SERVE

- PETROCHEMICALS
- PHARMACEUTICALS
- DAIRY PLANT
- OIL REFINERIES
- CHEMICALS
- TEXTILES



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