



- CHEMICALS
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- POWER PLANTS
- MARINES
- FOODS & BEVERAGES
- REFINERIES
- PULP & PAPERS



IMPORT & EXPORT



**MSME**  
MICRO, SMALL & MEDIUM ENTERPRISES  
सूक्ष्म, लघु एवं मध्यम उद्यम  
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Ministry of MSME, Govt. of India



9001:2015

## — About Sealventures

# Matter of Accuracy is the root concern for Sealventures India Private Limited.

In designing and manufacturing seals and associated precision products. We are a leading manufacturer, supplier, and exporter of high-performance mechanical seals, sealing components, and seal support systems. We provide customized sealing solutions for a wide range of rotating equipment, including **pumps, mixers, reactors, agitators, blenders, and blowers**. Our products are trusted by various industries, thanks to our ability to engineer and manufacture seals that match exact specifications, drawings, or samples. Our solutions are designed to deliver a perfect fit and reliable performance in demanding sectors such as **oil & gas, refineries, petrochemicals, chemicals, pharmaceuticals, fertilizers, power generation, mining, pulp & paper, aerospace, and marine**.

Our extensive portfolio of mechanical seals includes specialized products designed for diverse applications, such as **Conical Spring, Single Spring, Multi Spring, and Wave Spring Seals**. We also offer robust **Rubber Bellow, PTFE Bellow, Cartridge, Metal Bellow, Agitator, Reactor, and Dry Running Seals**, along with **Split and Labyrinth Seals** and other custom-engineered solutions. To complement our sealing systems, we provide advanced **Seal Support Systems**, including **Thermosyphon Systems, and Bearing Isolators**.

We pride ourselves on the quality of our sealing faces and components, which are meticulously crafted from premium materials like **Tungsten Carbide, Silicon Carbide, Ceramic, Carbon, Segmented Carbon Rings, O-Rings, and PTFE**. This commitment to quality ensures our products meet the highest standards of durability and reliability.

In addition to our seals, we offer a comprehensive line of rotary unions and joints designed for a variety of media, including **water, hot water, air, hydraulic fluid, vacuum, coolant, hot oil, and thermic fluid**. Our rotary unions are manufactured to be fully interchangeable with products from major manufacturers like **Deublin, DSTI, FESTO, Filton, Pearl, Kadant, Maier, Haag-Zeissler, and Johnson-Flutten**.

SealVentures India serves a broad and demanding client base across key industries, including **Dyes & Chemicals, PVC film manufacturing, Fertilizer Plants, Oil & Natural Gases, Solvent Extractions, Paper Mills, Steel Plants, Power Generation, Pharmaceuticals, Petrochemicals, Food Processing, Plastic Molding, Textiles, Cement & Sugar, Water Treatment, and Soap Industries**, as well as numerous **OEMs**. We are committed to providing exceptional engineering solutions that drive efficiency and reliability for our clients.



## — We are close to you

At **SealVentures India Pvt. Ltd.**, we are profoundly dedicated to fostering a secure and sustainable future. We take great pride in our position as a leading contributor within a responsible and safe industry, consistently working towards the goal of creating a better world. We are confident that our solutions will not only meet your expectations but also surpass them.

## — Who We Are

### **History:**

**Sealventures India Pvt. Ltd.** is a global leader in mechanical seal solutions. We specialize in the design, precision manufacturing, expert repair, and worldwide distribution of high-performance mechanical seals, providing unparalleled reliability and effective solutions to our discerning clientele.

### **Strategy:**

Sealventures India Pvt. Ltd. as a market leader, we are dedicated to setting the benchmark for accessibility and responsiveness to our clientele's evolving needs. We will be distinguished by the unwavering availability and robust reliability of our premium products, bespoke solutions, and exceptional services.

### **Vision:**

At Sealventures India, our vision is to be the quintessential benchmark for premier products and services. We are propelled by an unwavering commitment to cultivating enduring partnerships, a pioneering entrepreneurial ethos, and the relentless pursuit of cutting-edge technological innovation.

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### **Accessibility:**

Contact us using traditional methods or new communication technologies. We are always ready to provide you with the most suitable response.

### **Adaptability:**

We provide our customers with advice and guidance. Our design and manufacturing capacity means we are able to customize products and services to their needs.

### **Our values:**

The personality of a business is created by the attitude of each member. SealVentures team is a passionate, demanding, responsible and dynamic company. Our goal is to efficiently provide a response to your needs.

### **Availability:**

Our wide range and efficient processes make it possible to deliver the requested product when it is required.

### **Reliability:**

Our customers see us as a trusted partner because we always meet our commitments.

### **Sectors:**

We contribute to the success of strategic sectors.

**CHEMICAL**

Mechanical seals are vital in the chemical industry, acting as a critical barrier to prevent the leakage of hazardous and corrosive fluids from rotating equipment. The choice of materials like Hastelloy, silicon carbide, and Viton is crucial for withstanding extreme pressures, temperatures, and chemical exposure. This careful selection ensures operational efficiency, prevents costly spills, and protects the environment.



**PHARMACEUTICAL & BIOTECHNOLOGY**

A mechanical seal for the pharmaceutical and biotechnology industries is a device used to prevent fluid leakage along a rotating shaft in equipment like pumps and mixers. These seals are crucial for maintaining sterile conditions and preventing product contamination, using high-purity, corrosion-resistant materials such as 316L stainless steel, PTFE, and silicon carbide to meet strict hygiene regulations. Their design focuses on non-shedding, inert, and cleanability properties to ensure product safety and integrity.



**FOOD & BEVERAGE**

A mechanical seal is crucial in the food and beverage industry for preventing contamination and leakage in pumps and mixers. These seals are specifically designed by manufacturers like Sealventures India to meet strict hygiene standards, with features that prevent bacterial growth. They are typically made from FDA-approved materials like PTFE for seal faces and EPDM/Viton for elastomers, with SS 316L for metal parts, ensuring both sanitation and durability in processes involving liquids, slurries, and syrups.



**FERTILIZER**

A mechanical seal is crucial in fertilizer production, preventing fluid leakage from pumps and mixers by withstanding corrosive and abrasive materials like phosphoric acid and ammonia. Designed for harsh environments, these seals use durable materials such as silicon carbide for faces, Viton/Kalrez for elastomers, and SS 316 for metal parts. This construction ensures a long operational life and reduces maintenance, making them an essential component for equipment reliability.



**MINING & MINERALS**

A mechanical seal is crucial in the mining and minerals industries for preventing fluid and slurry leakage from pumps and mixers. These seals, often from Sealventures India, are specifically designed to withstand the abrasive slurries and corrosive chemicals common in mineral processing. They're typically made with tungsten carbide or silicon carbide faces, Viton or EPDM elastomers, and SS 316 metal components to ensure a long life and reliable performance in demanding, harsh environments.



**POWER PLANTS**

A mechanical seal is crucial in power plants for preventing fluid leakage from pumps, turbines, and compressors, withstanding high pressures and temperatures. From manufacturers like Sealventures India, these seals are often made with durable materials like tungsten carbide for faces, graphite/carbon for secondary seals, and Duplex SS for metal components, ensuring reliability in demanding applications like boiler feedwater and cooling water systems. This design guarantees a long service life with minimal maintenance in critical operations.





### PULP & PAPER

A mechanical seal is crucial in the pulp and paper industry, preventing fluid leakage in pumps and agitators by withstanding harsh chemicals like chlorine and abrasive pulp slurry. Manufactured with durable materials like silicon carbide or tungsten carbide for faces, Viton/Kalrez for elastomers, and SS 316/Alloy 20 for metal parts, they ensure long-term, reliable operation. This robust construction is essential for minimizing downtime and maintenance in this demanding environment.



### MARINE

Mechanical seals are essential in the marine industry for preventing fluid leakage in pumps and stern tubes on vessels and offshore platforms. These seals must endure the harsh, corrosive saltwater environment, high pressures, and extreme conditions. They are commonly made with robust materials like silicon carbide for the seal faces, Viton or Kalrez for the elastomers, and Duplex/Super Duplex steel for metal components, ensuring reliability and long-term performance under demanding marine conditions.



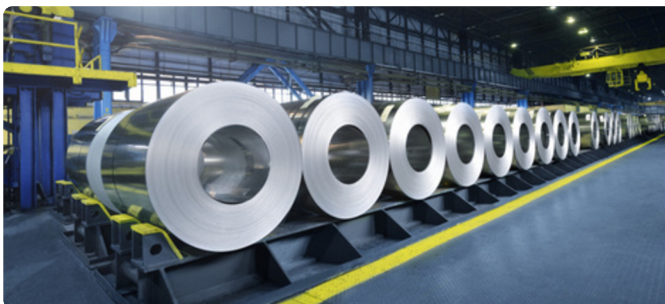
### WATER & WATER TREATMENT

Mechanical seals are vital for preventing leaks in water and wastewater treatment, handling various water qualities. Constructed from durable materials like carbon/silicon carbide faces, EPDM/Viton elastomers, and SS 316 metal parts, they provide reliable, low-maintenance operation in applications like desalination and municipal water supply.



### STEEL PLANTS

A mechanical seal is essential in steel plants to prevent leakage in pumps, mixers, and other rotating equipment that handle hot, abrasive, and corrosive fluids. Designed to operate under extreme conditions, they are vital for processes involving water, slurry, and chemicals. The seals are typically constructed from robust materials like silicon carbide, tungsten carbide, or carbon-graphite for the seal faces, with metal components often made of SS 316 and elastomers from Viton or PTFE to ensure durability and reliability.



### OIL & GAS

Crucial for the oil and gas industry, mechanical seals from Sealventures India prevent leaks in critical equipment like pumps and compressors by withstanding extreme pressures, temperatures, and corrosive hydrocarbons. These components ensure operational safety and reliability through the use of robust materials, combining tungsten or silicon carbide faces with Kalrez or Aflas elastomers and Duplex steel parts to survive the most demanding environments.



### TEXTILE

A mechanical seal for the textile industry is used to prevent fluid leakage in dyeing, washing, and finishing machines. These seals, often sourced from companies like Sealventures India, must handle high temperatures, aggressive chemicals like dyes and acids, and abrasive media. They are typically made from durable materials like carbon, silicon carbide, or ceramic for the seal faces, EPDM or Viton for the elastomers, and SS 316 for the metal components, ensuring reliability and minimal downtime in a challenging operational environment.



**CONICAL SPRING MECHANICAL SEALS**
**SV-CN11**

The **SV-CN11** is a **Conical single spring** pusher mechanical seal is a compact, unbalanced seal with a single conical spring that provides the closing force to the seal faces. It's used in general-purpose applications like pumps and other rotating equipment to handle clean or slightly contaminated fluids. The key materials for its faces are typically **carbon vs. ceramic or silicon carbide**, with the rest of the components and springs being made from **stainless steel SS-316/304**.


**MATERIALS**

**Seal Ring Faces** : Carbon, SiC and TC  
**Seat Faces** : NiR, Ceramic, SiC and TC  
**Secondary Seal** : Viton, Neoprene, EPDM, NBR and Buna-N  
**Metal parts** : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

**Shaft Dia.** : 10mm to 100mm  
**Pressure** : Up to 7 bar  
**Temperature** : -20 °C to +140 °C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain or stepped shafts  
 Single seal  
 Unbalanced design  
 Conical spring that rotates  
 Performance is dependent on the direction of rotation

**SV-S21 / SV-S21V**
**SINGLE SPRING MECHANICAL SEAL**

A **single spring mechanical seal SV-S21/SV-S21V** from **Sealventures India** is a cost-effective sealing solution designed to prevent leakage in rotating equipment. It's used in various basic applications, including centrifugal pumps and equipment handling different types of slurries. The materials used are chosen for durability and compatibility, with seal faces made of **Carbon, Silicon Carbide (SiC), and Tungsten Carbide (TC)**, while the elastomers can be **Viton, PTFE, or EPDM**, and the metal parts are typically **SS 316 & 304**.

**MATERIALS**

**Seal Ring Faces** : Carbon, SiC and TC  
**Seat Faces** : Ceramic, SiC and TC  
**Secondary Seal** : Viton, PTFE, GFT, TTV, EPDM, NBR, Buna-N  
**Metal parts** : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

**Shaft Dia.** : 10mm to 100mm  
**Pressure** : Up to 10 bar  
**Temperature** : -20 °C to +150 °C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain or stepped shafts  
 Single seal  
 Unbalanced configuration  
 Helical coil spring design  
 Functionality independent of the direction of rotation





**SV-MS31 / SV-MS31W**

**MULTI SPRING MECHANICAL SEAL**

SealVentures India Pvt. Ltd. manufactures the **SV-MS31/SV-MS31W** Multi Spring mechanical seals, which can be customized with either **O-rings or wedges**. These seals are engineered for a variety of sealing applications and feature multiple springs to maintain consistent face loading. Made from diverse materials such as **SS 316 /304** along with **silicon carbide, tungsten carbide, and carbon**, they are designed to accommodate different operational conditions.



**MATERIALS**

- Seal Ring Faces : Cabon, SiC and TC
- Seat Faces : Ceramic, SiC and TC
- Secondary Seal : Viton, PTFE, GFT, EPDM, NBR, Buna-N - FFKM
- Metal parts : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

- Shaft Dia. : 10mm to 100mm
- Pressure : Up to 10 bar
- Temperature : -20°C to 260°C (Depending upon Elastomer)
- Speed : Up to 3000 RPM

**FEATURES**

- For plain or stepped shafts
- Single seal
- Unbalanced design
- Multi-spring retainer
- Independent of the direction of rotation

**MULTI SPRING DOUBLE MECHANICAL SEAL**

**SV-DMS31**

SealVentures produces the **SV-DMS31** Multi Spring Double mechanical seals, which can be tailored with **O-rings**. These seals are specifically designed for a wide range of sealing applications and incorporate multiple springs to ensure consistent face loading. Constructed from various materials, including **SS 316, silicon carbide, tungsten carbide, and carbon**, they are built to meet different operational conditions.

**MATERIALS**

- Seal Ring Faces : Cabon, SiC and TC
- Seat Faces : Ceramic, SiC and TC
- Secondary Seal : Viton, PTFE, GFT, EPDM, NBR, Buna-N - FFKM
- Metal parts : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

- Shaft Dia. : 10mm to 100mm
- Pressure : Up to 10 bar
- Temperature : -20°C to 260°C (Depending upon Elastomer)
- Speed : Up to 3000 RPM

**FEATURES**

- For plain or stepped shafts
- Double seal
- Unbalanced
- Multi-spring retainer
- Independent of rotation direction



**MULTI SPRING DURA TYPE MECHANICAL SEAL**
**SV-MS31DT**

Sealventures India Pvt. Ltd. produces the **SV-MS31DT** Multi Spring Dura Type Balanced pusher mechanical seals. These seals are characterized by the arrangement of multiple springs around the shaft, which ensures an even closing force on the seal faces. Primarily utilized in high-pressure situations with corrosive or abrasive substances, they offer balanced sealing. Their construction generally incorporates materials such as **SS 3016**, along with **silicon carbide, tungsten carbide, and PTFE**, ensuring exceptional durability.


**MATERIALS**

**Seal Ring Faces** : Cabon, SiC and TC  
**Seat Faces** : Ceramic, SiC and TC  
**Secondary Seal** : Viton, PTFE, GFT, TTV, EPDM, NBR, Buna-N  
**Metal parts** : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

**Shaft Dia.** : 10mm to 100mm  
**Pressure** : Up to 10 bar  
**Temperature** : -20°C to 250°C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain and stepped shafts  
 Single seal  
 Unbalanced design  
 Open rotary multi-spring retainer  
 Independent of rotation direction

**SV-WS41**
**WAVE SPRING MECHANICAL SEAL**

The **SV-WS41** is a wave spring unbalanced pusher mechanical seal manufactured by Sealventures India Pvt. Ltd. This sealing device utilizes a single wave spring to ensure uniform face loading. It is designed for general service applications in pumps, mixers, and agitators. Constructed from materials such as **SS-316, ceramic, and carbon**, the **SV-WS41** is capable of accommodating a diverse range of fluids and temperature conditions.

**MATERIALS**

**Seal Ring Faces** : Cabon, SiC and TC  
**Seat Faces** : Ceramic, Cabon, SiC and TC  
**Secondary Seal** : Viton, PTFE, GFT, TTV, EPDM, NBR, Buna-N  
**Metal parts** : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

**Shaft Dia.** : 10mm to 100mm  
**Pressure** : Up to 25 bar  
**Temperature** : -40 °C to +220 °C  
**Speed** : Up to 3000 RPM

**FEATURES**

For both plain and stepped shafts  
 Single seal  
 Unbalanced design  
 Independent of the direction of rotation





**SV-RBRT-51**

**ROBIN TYPE RUBBER BELLOW MECHANICAL SEAL**

The **SV-RBRT-51** is a Robin Type Rubber Bellow Mechanical Seal with innovative bellows for flexibility and self-alignment, accommodating shaft misalignments. Seal faces are made from **carbon, silicon carbide, or tungsten carbide**, while bellows use elastomers like **Viton, EPDM, or Buna-N**, with metal parts in **SS 304 or SS 316**. These seals are used in pumps and mixers across industries such as water treatment, chemical processing, and HVAC for light-duty applications.



**MATERIALS**

- Seal Ring Faces** : Cabon, SiC and TC
- Seat Faces** : NiR, Ceramic, SiC and TC
- Secondary Seal** : Viton, Neoprene, EPDM, NBR and Buna-N
- Metal parts** : SS 304, SS 316 & etc.

**OPERATING RANGE**

- Shaft Dia.** : 10mm to 100mm
- Pressure** : Up to 8 bar
- Temperature** : -20°C to 180°C
- Speed** : Up to 3000 RPM

**FEATURES**

- For plain and stepped shafts
- Single seal
- Unbalanced
- Torque transmission by elastomer bellow

**ROBIN TYPE RUBBER BELLOW MECHANICAL SEAL**

**SV-RBRT-51D**

The **SV-RBRT-51D** is a Robin Type Rubber Bellow Double Mechanical Seal with flexible bellows for self-alignment, featuring durable seal faces and elastomer bellows for use in **pumps** and **mixers** across various industries. Constructed from materials like **carbon, silicon carbide, and stainless steel**, these seals are ideal for light-duty applications in sectors such as water treatment, chemical processing, and HVAC.

**MATERIALS**

- Seal Ring Faces** : Cabon, SiC and TC
- Seat Faces** : NiR, Ceramic, SiC and TC
- Secondary Seal** : Viton, Neoprene, EPDM, NBR and Buna-N
- Metal parts** : SS 304, SS 316 & etc.

**OPERATING RANGE**

- Shaft Dia.** : 10mm to 100mm
- Pressure** : Up to 8 bar
- Temperature** : -20°C to 180°C
- Speed** : Up to 3000 RPM

**FEATURES**

- For plain and stepped shafts
- Single seal
- Unbalanced
- Torque transmission by elastomer bellow



**RUBBER BELLOW UNBALANCED MECHANICAL SEALS**
**SV-RBT51-11 / 12 / 13**

The **SV-RBT51-11/12/13** is a **Rubber Bellow Type Mechanical Seal** that uses flexible bellows to handle shaft misalignment. Its materials include carbon, silicon carbide, or tungsten carbide for the faces and Viton, EPDM, or Buna-N for the bellows, with SS 304 or SS 316 metal parts, and it is used for light-duty applications in pumps and mixers across industries like water treatment and chemical processing.


**MATERIALS**

**Seal Ring Faces** : Carbon, SiC and TC  
**Seat Faces** : NiR, Ceramic, SiC and TC  
**Secondary Seal** : FKM, EPDM, Silicon, NBR  
**Metal parts** : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

**Shaft Dia.** : 10mm to 100mm  
**Pressure** : Up to 20 bar  
**Temperature** : -40 °C to +150 °C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain shaft  
 Single seal  
 Unbalanced  
 Drive bands protect to bellows  
 Torque transmission by elastomer bellow

**SV-MG-1 / MG-12 / MG-13**
**ELASTOMER (RUBBER) BELLOW MECHANICAL SEALS**

The **SV-MG-1/MG-12/MG-13** is a **Elastomer Bellow Mechanical Seals** are defined as single-acting, unbalanced seals featuring a flexible rubber bellows that provides self-alignment, compensates for shaft misalignment, and prevents shaft damage. They are manufactured by Sealventures India using **carbon, silicon carbide, or tungsten carbide** for the seal faces, while the bellows are made from elastomers such as **Viton, EPDM, or Buna-N**, with metal components in **SS304/316**.

**MATERIALS**

**Seal Ring Faces** : Carbon, SiC and TC  
**Seat Faces** : NiR, Ceramic, SiC and TC  
**Secondary Seal** : Viton, Neoprene, EPDM, NBR and Buna-N  
**Metal parts** : SS 304, SS 316 & etc.

**OPERATING RANGE**

**Shaft Dia.** : 10mm to 100mm  
**Pressure** : Up to 15 bar  
**Temperature** : -20°C to 150°C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain shaft  
 Single seal  
 Unbalanced  
 No torsion on bellows  
 Torque transmission by elastomer bellow





**SV-MB61 / SV-MB61-V**

**METAL BELLOW BALANCED MECHANICAL SEAL**

The **SV-MB61/SV-MB61-V** is a Metal Bellow Balanced Mechanical Seal is a non-pusher, single-acting seal that eliminates the need for dynamic O-rings / Vee or springs by using a flexible metal bellows to provide a static seal and compensate for movement. Ideal for high-temperature and corrosive applications, it is manufactured using materials like **carbon, silicon carbide, or tungsten carbide** for faces and **AM350, Hastelloy, or Inconel for bellows**, and is primarily used in the **petroleum, petrochemical, and chemical** industries.



**MATERIALS**

- Seal Ring Faces** : Carbon, SiC and TCc
- Seat Faces** : TC and SiC
- Elastomer** : Viton, PTFE, FEP, EPDM and FFKM
- Metal parts** : SS 316, Hast- C and Carpenter 42
- Bellow MOC** : AM350, Inconel®, Hastelloy® C-276

**OPERATING RANGE**

- Shaft Dia.** : 25mm to 100mm
- Pressure** : Up to 25 bar
- Temperature** : -30°C to 260°C
- Speed** : Up to 3000 RPM

**FEATURES**

- For plain shafts
- Single seal
- Balanced
- Independent of direction of rotation

**METAL BELLOW GRAFOIL PACKING BALANCED SEAL**

**SV-MB62-G**

The **SV-MB62-G** is a Metal Bellow Balanced Mechanical Seal is a non-pusher, single-acting seal that eliminates the need for dynamic **Grafoil Packing** or springs by using a flexible metal bellows to provide a static seal and compensate for movement. Ideal for high-temperature and corrosive applications, it is manufactured using materials like **carbon, silicon carbide, or tungsten carbide** for faces and **AM350, Hastelloy, or Inconel for bellows**, and is primarily used in the **petroleum, petrochemical, and chemical** industries.

**MATERIALS**

- Seal Ring Faces** : Carbon, SiC and TCc
- Seat Faces** : TC and SiC
- Elastomer** : Flexible Graphite
- Metal parts** : SS 316, Hast- C and Carpenter 42
- Bellow MOC** : AM350, Inconel®, Hastelloy® C-276

**OPERATING RANGE**

- Shaft Dia.** : 25mm to 100mm
- Pressure** : Up to 25 bar
- Temperature** : -40 °C to 350°C
- Speed** : Up to 3000 RPM

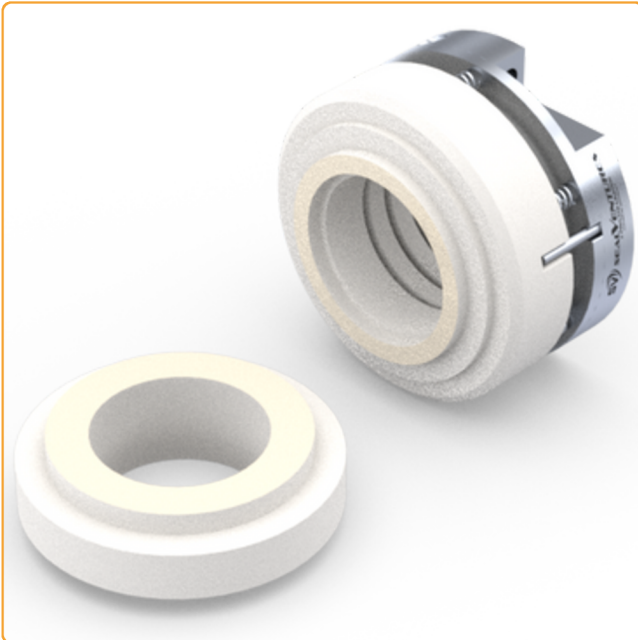
**FEATURES**

- For plain shafts
- Single seal
- Balanced
- Independent of direction of rotation



**TEFLON (PTFE) BELLOW MECHANICAL SEAL**
**SV-TB71**

The **SV-TB71** is a Teflon (PTFE) Bellow Mechanical Seal is a non-pusher, single-acting seal with a highly flexible PTFE bellows that provides superior chemical resistance and is used in pumps and mixers for extremely corrosive fluids like concentrated acids and strong oxidizers. Its materials typically include a PTFE bellows and seal faces made from glass-filled **PTFE (GFT), carbon, or silicon carbide**, with metal parts of **SS 316 or Hastelloy-C**, ensuring all components in contact with the media are chemically inert.


**MATERIALS**

**Seal Ring Faces** : Carbon, SiC and TCc  
**Seat Faces** : Ceramic and SiC  
**Elastomer** : PTFE and GFT  
**Metal parts** : SS 316, Hast -C and Alloy 20  
**Bellow MOC** : PTFE + GFT Composite

**OPERATING RANGE**

**Shaft Dia.** : 25mm to 100mm  
**Pressure** : Up to 25 bar  
**Temperature** : -45 °C to +120 °C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain shafts  
 Maximum corrosion resistance  
 Outside mounted  
 Independent of direction of rotation

**SV-TB71-R**
**TEFLON (PTFE) BELLOW MECHANICAL SEAL**

The **SV-TB71-R** is a Teflon (PTFE) Bellow Mechanical Seal is a non-pusher, single-acting seal with a highly flexible PTFE bellows that provides superior chemical resistance and is used in pumps and mixers for extremely corrosive fluids like concentrated acids and strong oxidizers. Its materials typically include a PTFE bellows and seal faces made from glass-filled **PTFE (GFT), carbon, or silicon carbide**, with metal parts of **SS 316 or Hastelloy-C**, ensuring all components in contact with the media are chemically inert.

**MATERIALS**

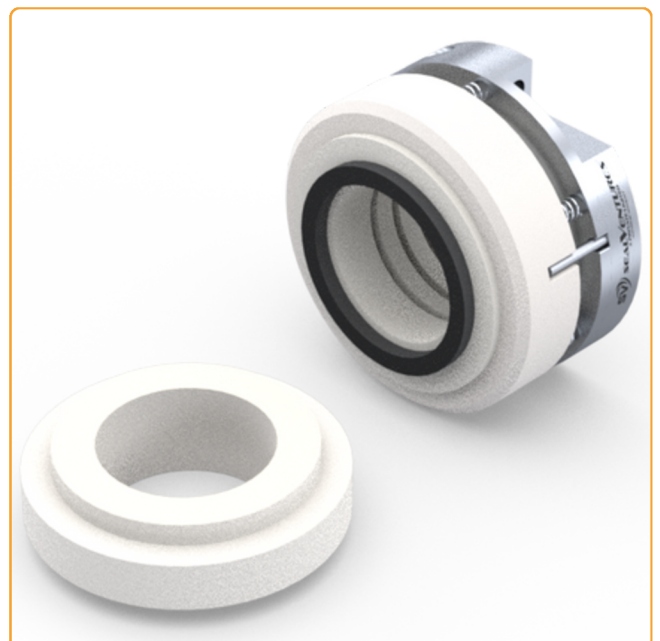
**Seal Ring Faces** : Carbon, SiC and TCc  
**Seat Faces** : Ceramic and SiC  
**Elastomer** : PTFE and GFT  
**Metal parts** : SS 316, Hast -C and Alloy 20  
**Bellow MOC** : PTFE + GFT Composite

**OPERATING RANGE**

**Shaft Dia.** : 25mm to 100mm  
**Pressure** : Up to 25 bar  
**Temperature** : -45 °C to +120 °C  
**Speed** : Up to 3000 RPM

**FEATURES**

For plain shafts  
 Maximum corrosion resistance  
 Outside mounted  
 Independent of direction of rotation

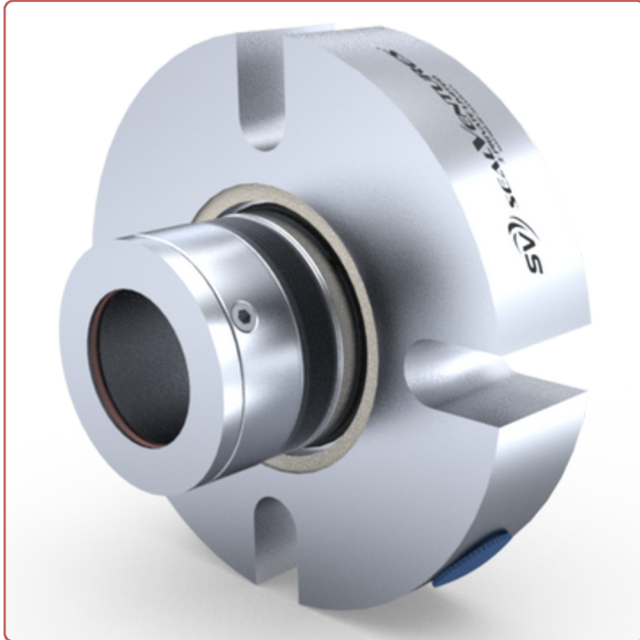




**SV-CTMB61**

**METAL BELLOW CARTRIDGE SEAL**

The **SV-CTMB61** from **Sealventures India** is a self-contained, pre-assembled **metal bellow cartridge seal**. It features a welded metal bellows for dynamic sealing, eliminating elastomer hang-up and fretting, making it ideal for high-temperature and corrosive applications. Constructed from materials like **AM-350 or Hastelloy®** for the bellows and **silicon carbide** for the faces, it ensures reliable, long-lasting performance in the **chemical, oil and gas, and pharmaceutical industries**.



**MATERIALS**

- Seal Ring Faces** : Carbon, SiC and TCc
- Seat Faces** : TC and SiC
- Elastomer** : Flexible Graphite
- Metal parts** : SS 316, HAST-C and Carpenter 42
- Bellow MOC** : AM350, Inconel®, Hastelloy® C-276

**OPERATING RANGE**

- Shaft Dia.** : 19mm to 100mm
- Pressure** : Up to 25 bar
- Temperature** : -70°C to 350°C
- Speed** : Up to 3000 RPM

**FEATURES**

- For plain shafts
- Single Acting.
- Dual directional.
- Inside mounted.
- Independent of direction of rotation.

**SINGLE CARTRIDGE MECHANICAL SEAL**

**SV-CT101**

The **SV-CT101** is a **Single Cartridge Mechanical Seal** by **Sealventures India** is a pre-assembled, self-contained unit that simplifies installation and maintenance on rotating shafts. It minimizes downtime and ensures reliable performance with its factory-set components. Constructed from materials like **carbon, silicon carbide, stainless steel, and Hastelloy®**, it is suitable for diverse applications in industries such as **chemical processing, oil & gas, and food & beverage**.

**MATERIALS**

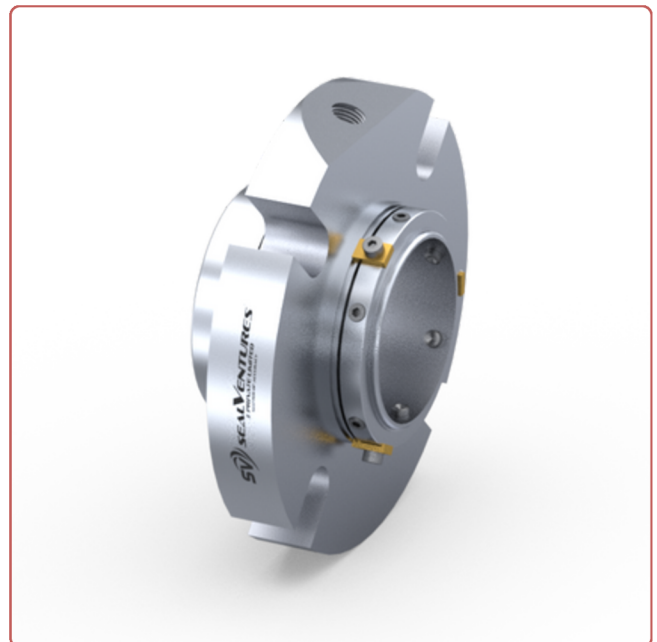
- Seal Ring Faces** : Carbon, SiC and TCc
- Seat Faces** : Ceramic and SiC
- Elastomer** : Viton, PTFE, FEP and FFKM
- End fitting MOC**: SS 316, HAST-C and Carpenter 42
- MOC** : SS 304, SS 316, Hast-C, Alloy-20

**OPERATING RANGE**

- Shaft Dia.** : 20mm to 100mm
- Pressure** : Up to 18 bar
- Temperature** : -25°C to 260°C
- Speed** : Up to 3000 RPM

**FEATURES**

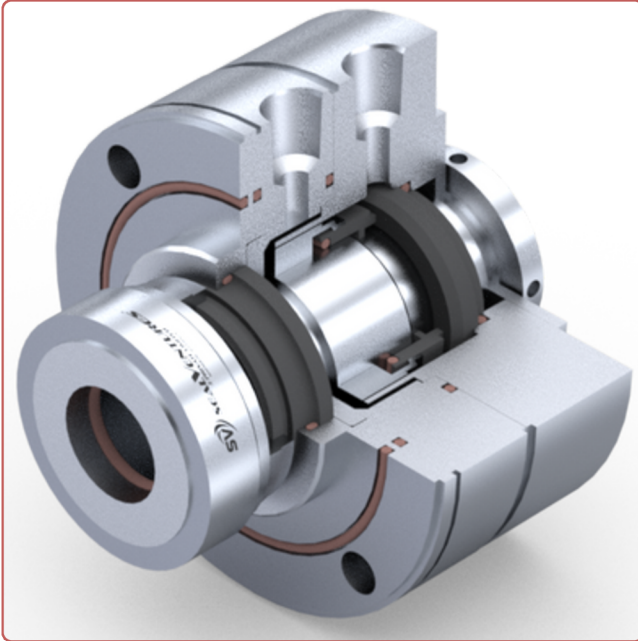
- Single seal
- Balanced
- Cartridge unit
- Independent of direction of rotation



## DOUBLE CARTRIDGE MECHANICAL SEAL

SV-CTD201

The **SV-CTD201** is a **Double Cartridge Mechanical Seal** by Sealventures India is a compact, pre-assembled dual-sealing unit. It enhances safety and extends seal life by using a barrier fluid between two sets of seal faces to prevent leakage of hazardous fluids and protect against abrasive media. The self-contained design simplifies installation, making it ideal for critical applications in **chemical processing, oil & gas, and power generation**, with materials like **carbon, silicon carbide, and stainless steel**.



### MATERIALS

**Seal Ring Faces** : Carbon, SiC and TCc  
**Seat Faces** : TC and SiC  
**Elastomer** : Viton, PTFE and FFKM  
**End fitting MOC**: SS 316, HAST-C and Carpenter 42  
**MOC** : SS 304, SS 316, Hast-C, Alloy-20

### OPERATING RANGE

**Shaft Dia.** : 20mm to 100mm  
**Pressure** : Up to 15 bar  
**Temperature** : -30°C to 260°C  
**Speed** : Up to 3000 RPM

### FEATURES

Double seal  
 Balanced  
 Cartridge unit  
 Independent of direction of rotation

## SV-CTG301

## GRUNDFOS PUMP CARTRIDGE SEAL

The **SV-CTG301** is a **Grundfos Pump Cartridge Seal**, such as those made by **Sealventures India**, is a pre-assembled mechanical seal designed for easy installation, simplifying maintenance and reducing downtime. Its single, balanced cartridge unit is durable, resistant to high temperatures and pressure, and prevents shaft wear. Made from materials like **silicon carbide, tungsten carbide, and stainless steel**, with **Viton or EPDM elastomers**, it's widely used in **water treatment, chemical, and pharmaceutical industries**.

### MATERIALS

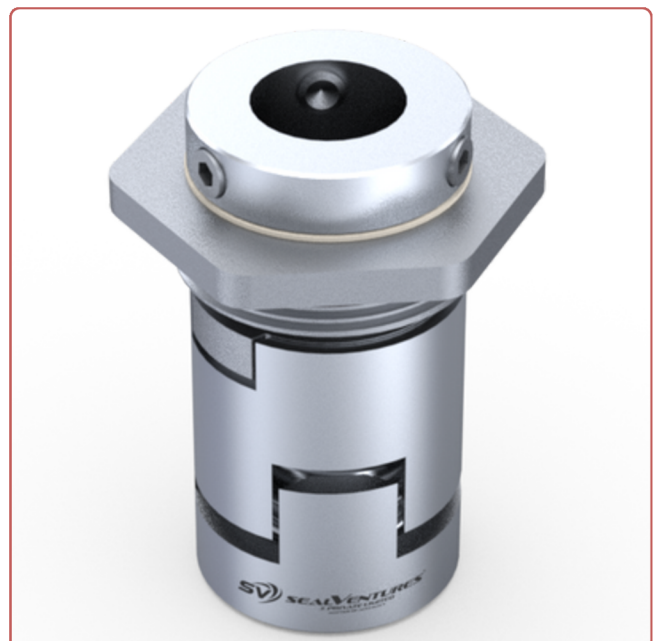
**Seal Ring Faces** : Carbon, SiC and TCc  
**Seat Faces** : Ceramic and SiC  
**Elastomer** : Viton, PTFE, FEP and FFKM  
**End fitting MOC**: SS 316, HAST-C and Carpenter 42  
**MOC** : SS 304, SS 316, Hast-C, Alloy-20

### OPERATING RANGE

**Shaft Dia.** : 12mm to 100mm  
**Pressure** : Up to 18 bar  
**Temperature** : -25°C to 260°C  
**Speed** : Up to 3000 RPM

### FEATURES

Single seal  
 Balanced  
 Cartridge unit  
 Independent of direction of rotation

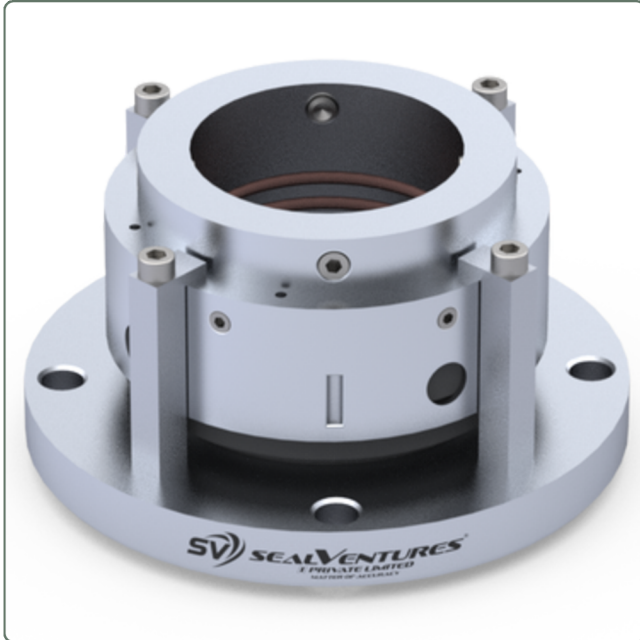




**SV-AG125**

**DRY RUNNING MECHANICAL SEAL**

The **SV-AG125** is a **Dry Running mechanical seal** from manufacturers like **Sealventures India** operates without external lubrication, preventing fluid contamination. These seals feature self-lubricating faces made from materials like **carbon or silicon carbide**, are independent of rotation direction, and are used in sensitive industries such as **pharmaceuticals and food processing**.



**MATERIALS**

- Seal Ring Faces : Spl. Carbon
- Seat Faces : SiC
- Elastomer : Viton, TTV, FEP and FFKM
- Metal Parts : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

- Shaft Dia. : 20mm to 150mm
- Pressure : Full Vacuum Up to 8 bar
- Temperature : -30°C to 140°C
- Speed : Up to 900 RPM

**FEATURES**

- Single seal
- Balanced
- Outboard mounted
- Independent of direction of rotation

**AGITATOR MECHANICAL SEAL**

**SV-AG225**

The **SV-AG225** is a **Agitator Mechanical Seal** from manufacturers like **Sealventures India** is a specialized sealing solution for mixers, designed to prevent fluid leakage despite significant shaft movement. Its robust, often cartridge-style, design handles high pressure and corrosive media, with materials like **silicon carbide and stainless steel**. It is used in **chemical, pharmaceutical, and food** industries to ensure safety and product integrity.

**MATERIALS**

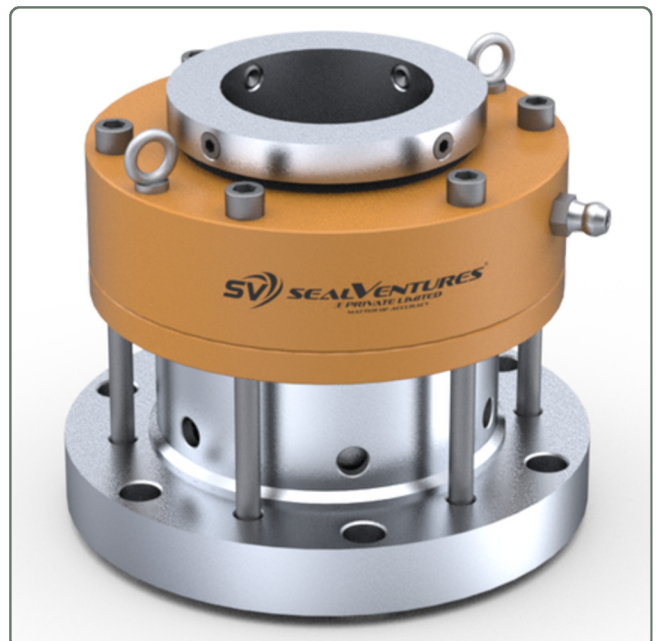
- Seal Ring Faces : Carbon and SiC
- Seat Faces : SiC and TC
- Elastomer : Viton, TTV, FEP and FFKM
- Metal Parts : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

- Shaft Dia. : 20mm to 150mm
- Pressure : Full Vacuum Up to 8 bar
- Temperature : -30°C to 150°C
- Speed : Up to 300 RPM

**FEATURES**

- Single seal
- Cartridge unit
- Independent of direction of rotation



**DOUBLE AGITATOR MECHANICAL SEAL**
**SV-AG325**

The **SV-AG325** is a **Double Agitator Mechanical Seal Seal** by **Sealventures India** is a compact, pre-assembled dual-sealing unit. It enhances safety and extends seal life by using a barrier fluid between two sets of seal faces to prevent leakage of hazardous fluids and protect against abrasive media. The self-contained design simplifies installation, making it ideal for critical applications in **chemical processing, oil & gas, and power generation**, with materials like **carbon, silicon carbide, and stainless steel**.

**MATERIALS**

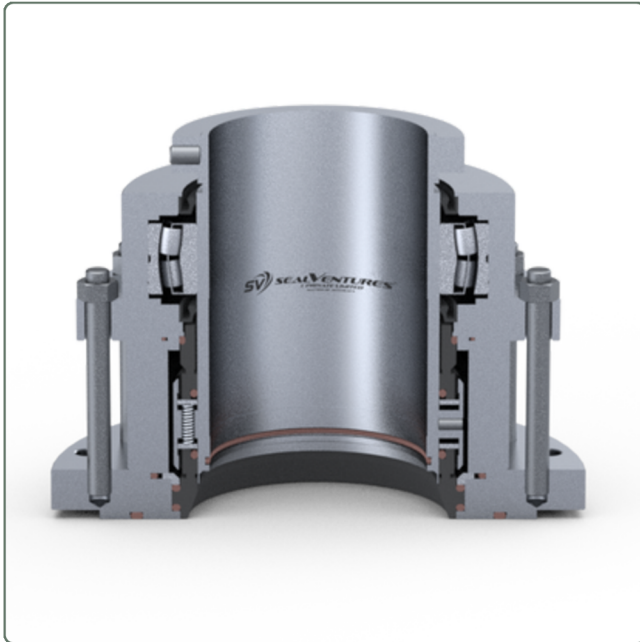
**Seal Ring Faces** : Carbon and SiC  
**Seat Faces** : SiC and Ceramic  
**Elastomer** : Viton, PTFE, FEP and FFKM  
**Metal Parts** : SS 304, SS 316, Hast-C, Alloy-20

**OPERATING RANGE**

**Shaft Dia.** : 40mm to 200mm  
**Pressure** : Up to 8 bar  
**Temperature** : -25°C to 260°C  
**Speed** : Up to 200 RPM

**FEATURES**

Double seal  
 Balanced  
 Cartridge unit  
 Bearing arrangement  
 Heat trap arrangement (Optional)  
 Independent of direction of rotation



**SV-SPL501****SPLIT MECHANICAL SEAL**

The **SV-SPL501** is a **Fully Split Mechanical Seal** designed for heavy-duty industrial equipment. Unlike traditional seals that require the removal of motors or bearings for maintenance, this seal is split into two halves, allowing for direct installation around the shaft. This design drastically reduces downtime in large-scale operations.

**MATERIALS**

Seal Ring Faces : Carbon, SiC, TC

Seat Faces : SiC and TC

Elastomer : Viton, FKM, FFKM, EPDM and NBR

Metal Parts : SS 304, SS 316, Hast-C, Alloy-20 & etc.

**OPERATING RANGE**

Shaft Dia. : 50mm to 150mm

Pressure : Up to 10 bar

Temperature : -30°C to 150°C

Speed : Up to 2900 RPM

**FEATURES**

Fully split design

Balanced

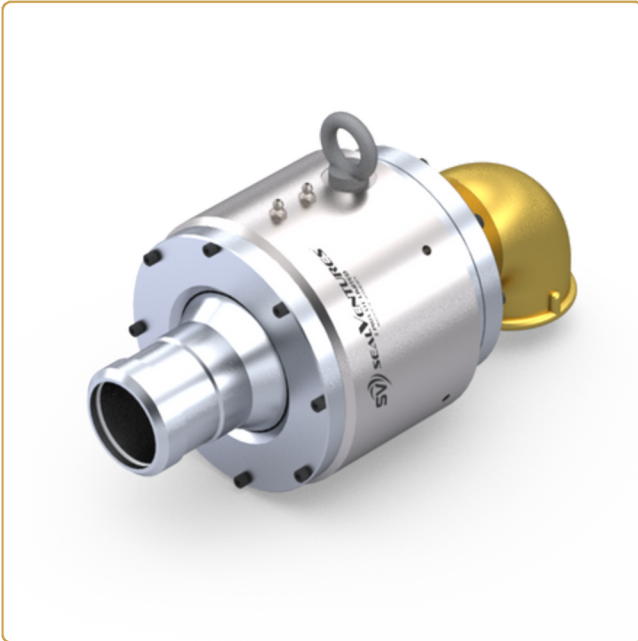
Semi cartridge unit

Single seal

Bi-directional

**SINGLE PASSAGE THERMAL & HOT OIL JOINT**
**SV-RJ-751**

The **SV-RJ-751** is a **Single Passage Thermal & Hot Oil Joint** designed for hot oil media. The durable steel rotor, supported by an extra-long carbon graphite bush bearing, provides a large surface area for extended, lubrication-free operation. This versatile unit can be configured for either mono or dual-flow applications with a siphon pipe provision. It's built from premium raw materials to ensure long-lasting performance


**MATERIALS**

<b>Bush Bearing</b>	: Carbon Graphite
<b>Sealing Faces</b>	: Antimony Carbon, Resin Bonded Carbon
<b>Elastomers</b>	: Klinger, Graphoil, GFT
<b>Metal Parts</b>	: SS 316, Carbon Steel, C.I (Nickel Plated)
<b>Size</b>	: 1/2" (DN15) – 6" (DN150)

**OPERATING RANGE**

<b>Media</b>	: Hot Water, Steam, Hot Oil
<b>Max. Pressure</b>	: 17 bar
<b>Max. Temperature</b>	: 280°C
<b>Max. Speed</b>	: 750 rpm

**SV-RJD-751**
**DUAL FLOW THERMAL & HOT OIL JOINT**

The **SV-RJD-751** is a **Dual Flow Thermal & Hot Oil Joint** designed for hot oil media. The durable steel rotor, supported by an extra-long carbon graphite bush bearing, provides a large surface area for extended, lubrication-free operation. This versatile unit can be configured for either mono or dual-flow applications with a siphon pipe provision. It's built from premium raw materials to ensure long-lasting performance

**MATERIALS**

<b>Bush Bearing</b>	: Carbon Graphite
<b>Sealing Faces</b>	: Antimony Carbon, Resin Bonded Carbon
<b>Elastomers</b>	: Klinger, Graphoil, GFT
<b>Metal Parts</b>	: SS 316, Carbon Steel, C.I (Nickel Plated)
<b>Size</b>	: 1/2" (DN15) – 6" (DN150)

**OPERATING RANGE**

<b>Media</b>	: Hot Water, Steam, Hot Oil
<b>Max. Pressure</b>	: 17 bar
<b>Max. Temperature</b>	: 280°C
<b>Max. Speed</b>	: 750 rpm





**SV-BI24**

**BEARING ISOLATOR**

The **SV-BI24** is a non-contacting labyrinth seal designed to protect rotating equipment bearings. Composed of a stationary stator and a rotating rotor, it uses a dynamic seal to prevent contamination and retain lubrication, extending bearing life and reducing maintenance costs. Made from materials like **bronze, stainless steel, and specialized polymers**, it is suitable for applications including **pumps, motors, and gearboxes**.

**MATERIALS**

Secondary seals: FKM, Aflas, NBR  
 Metal Parts : SS 304, SS 316 and Bronze

**OPERATING RANGE**

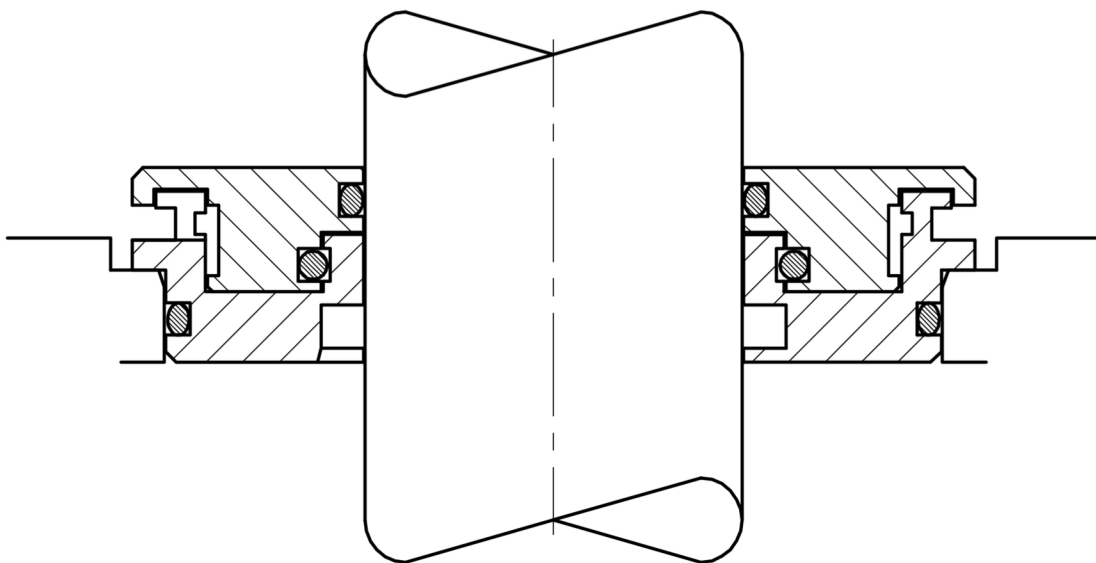
Shaft Dia. : 19mm to 200mm  
 Pressure : 0 Bar  
 Temperature : -25 °C to +200 °C  
 Speed : Up to 6000 RPM

**FEATURES**

- Bearings protection against moisture, grit and dust
- Groove designed in the stator part to hold the oil on the shaft and returns it to the bearing housing
- Easy to install due to cartridge unit
- Shaft wear protection compared to conventional oil seal

**APPLICATION**

Installs on bearing frames used in oil and gas, chemical, mining, pulp and paper, power and general industries.





**THERMOSYPHON SYSTEMS**

**SV-TS780**

The **SV-TS780** is a passive, self-contained **Thermosyphon System** that cools and lubricates mechanical seals using natural convection. Operating without a pump, it circulates fluid to dissipate heat and prevent contamination, thereby extending seal life. Its simple, low-maintenance design is made from durable materials like stainless steel (SS316) for reliable performance in harsh environments.



**MATERIALS**

- Secondary seals : PTFE
- Cooling coil : SS 304, SS 316 and copper
- Vessel shell : Carbon Steel, SS 304 and SS 316

**OPERATING RANGE**

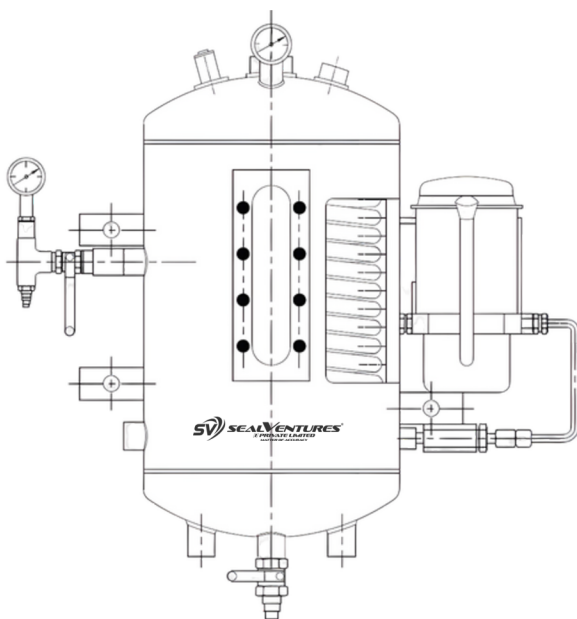
- Vessel capacity : 7 to 12 ltrs.
- Pressure : Max 50 bar
- Temperature : -40 °C to +200 °C

**FEATURES**

- Available with or without cooling coil
- buffer/barrier fluid supply to double and tandem seals
- Sight glass for level monitoring
- Equipped with all standard and necessary accessories

**APPLICATION**

Installs on bearing frames used in oil and gas, chemical, mining, pulp and paper, power and general industries.





**SV-CP1**

**CHEMICAL PROCESS PUMP**

The **SV-CP1** is a chemical process pump is a specialized pump engineered for the safe and efficient handling of corrosive, abrasive, or hazardous fluids. Key features include robust, corrosion-resistant construction using materials like stainless steel or specialized polymers, leak-proof sealing options (such as mechanical seals or sealless magnetic drives) to prevent the escape of dangerous fluids, and a durable design that can withstand high temperatures and pressures. These pumps are built for low maintenance, high reliability, and operational safety to minimize downtime in demanding applications across industries like chemical, pharmaceutical, and wastewater treatment.

**MATERIALS**

- Casing : PP / GFPP / PVDF
- Shaft : SS 410 / SS 316 / SS 304
- Impeller : PP / GFPP / PVDF

**OPERATING LIMIT**

- Pressure : Upto 5 kg/cm<sup>2</sup>
- Capacity : Upto 110 CU MT / HR
- Head : Upto 55 Meters
- Temperature : 0° to 150°C
- Speed : Upto 3500 RPM

**SALIENT FEATURES**

- Cooling jacket help for maintaining temperature as per requirement.
- Available with / without bearing.
- Easy to install.
- It has a high performance.



**Seal face**

- carbon - R
- carbon - M
- Tungsten Carbide
- Nickel bonded
- Cobald bonded
- Silicon carbide
- Special chrome casting
- glass filled PTFE
- Chrome oxide coating
- Phosphorus Bronze
- Stellite
- Ni-resist
- Lecrolloy
- Ceramic
- Carpentar-42
- CFT

**Secondary Seal**

- Vitobn
- Grafoil
- Karlez (PFE)
- Silicon rubber
- PTFE
- Glass filled PTFE (GFT)
- Nitriol
- EPR
- TCV (Teflon Coated Viton)
- Chemraz
- Fluorosilicone

### MATERIALS

Most of the seal designs have stood the test of time and are still in regular usage. The improvements, however, have been tremendous in the seal face materials. The development of superior and highly reliable resin impregnated carbon as also antimony impregnated carbon has enable successful seal operation even in marginal lubrication conditions particularly in light hydrocarbon and high temperature water applications.

For corrosive liquids resin impregnated carbon and sintered silicon carbide grades have proved the ideal solutions. The hardness and thermal conductivity of silicon carbide is extremely high as shown in the table below.

### ELASTOMERS

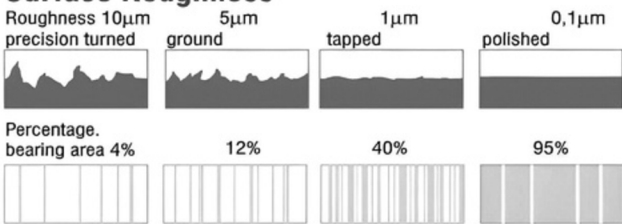
Generally seal face materials easily withstand high temperatures, typically 330°C. However temperature limitations on the part of secondary elastomers decide the seal temperature capability.

So while selecting the seal these limits are to be taken into account.

Material description	min	Temperature limits	max
Fluoroelastomer	0°F/-18°C		400°F/204°C
Ethylene Propylene (EPDM)	-40°F/-40°C		300°F/149°C
Neoprene	-40°F/-40°C		300°F/140°C
Nitrile Butadiene (Buna N)	-40°F/-40°C		300°F/125°C
Kalrez® 1050LF	240°F/-7°C		550°F/288°C
PTFE	-100°F/-73°C		450°F/232°C
Flexible graphite	-320°F/-196°C		800°F/427°C
Chemraz®	-20°F/-29°C		450°F/310°C

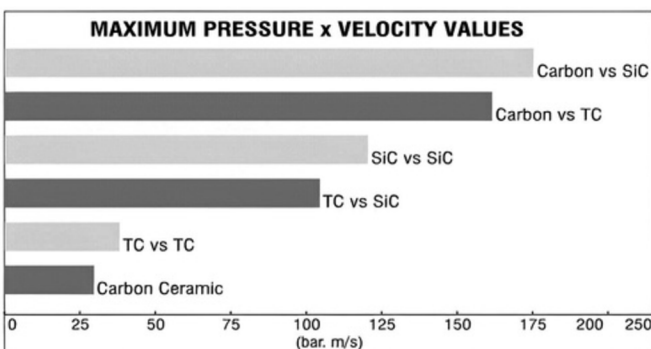
Material	Compressive Strength N/mm <sup>2</sup>	Density g/cm <sup>3</sup>	Modulus elasticity of kN/mm <sup>2</sup>	Coeff. of Thermal Expansion x10 <sup>-6</sup> /°C	Thermal Conductivity W/m°C	Hardness
Carbon, resin impregnated	250	1.83	234	2.88	6	100*
Carbon, antimony impregnated	350	2.15	262	3.96	8	115*
Tungsten Carbide	4750	15	635	5	100	1500*
Silicon Carbide	2750	3.1	365	4.5	145	2400*
Alumina Oxide	2620	3.9	385	4.32	25	1800**

### Surface Roughness



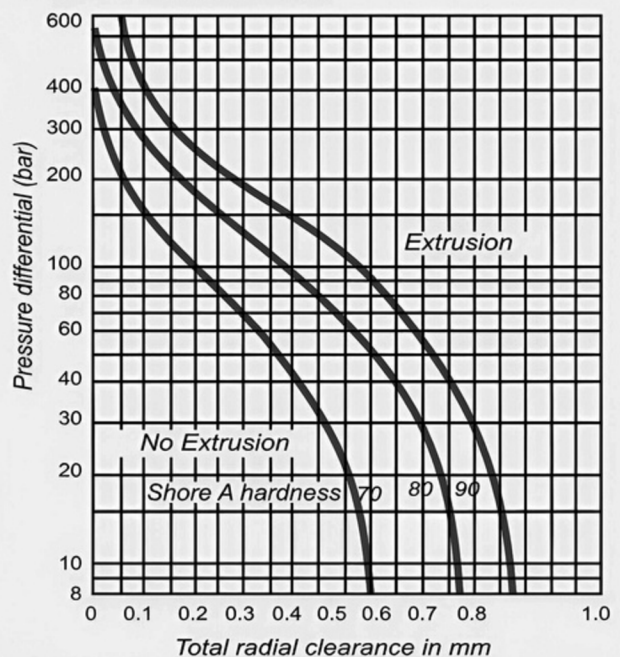
Lapped sliding face made out of different materials having the following average, arithmetic mean roughness values (Ra)

- Tungsten carbide 0.01µmm
- Silicon carbide 0.04µmm
- Carbon graphite 0.10µmm
- Aluminium oxide 0.15µmm



### Extrusion characteristics of elastomeric O-rings

The extrusion resistance of elastomeric O-rings can be greatly enhanced by use of support rings.





**Sealventures** offers precision-engineered mechanical seal faces in materials like Carbon Graphite, Tungsten Carbide, Silicon Carbide, and Ceramic for reliable sealing in diverse rotating equipment.



**CARBON GRAPHITE**

Sealventures India's carbon graphite seal faces are engineered for superior performance in mechanical seals. Their self-lubricating properties and exceptional wear resistance guarantee long service life and reliable operation. With a low coefficient of friction and chemical inertness, these seal faces effectively minimize heat generation and can handle a wide range of aggressive media.

**CERAMIC**

Ceramic materials are an excellent choice for mechanical seal faces because of their exceptional durability and resistance to harsh operating conditions. Their high hardness and ability to withstand corrosion make them incredibly wear-resistant, ensuring a long operational life. Furthermore, their low thermal expansion means they maintain their structural integrity and sealing effectiveness even when exposed to significant temperature fluctuations.



**SILICON CARBIDE**

Silicon carbide is an ideal material for mechanical seal faces. Its exceptional hardness gives it outstanding resistance to wear, while its high thermal conductivity helps dissipate frictional heat, preventing damage. Additionally, its excellent corrosion resistance makes it suitable for use with many different chemicals.

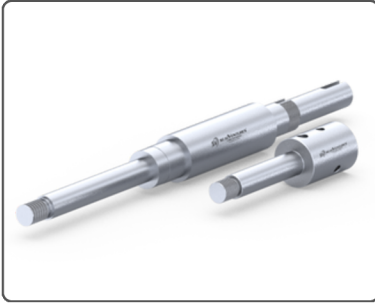
**TUNGSTEN CARBIDE**

Tungsten carbide is an exceptional material for mechanical seal faces. Its remarkable hardness and high wear resistance make it highly effective in challenging applications with abrasive materials and intense pressures. This durability ensures a longer service life and reliable performance. Furthermore, tungsten carbide possesses a high modulus of elasticity and excellent corrosion resistance.





We are suppliers of replacement parts for pumps from several manufacturers. Our inventory includes spares for pumps made by **Kirloskar, KSB, Beacon, Johnson, and Mather & Platt**. We specialize in providing high-quality components to ensure the longevity and efficient operation of your pumping systems.



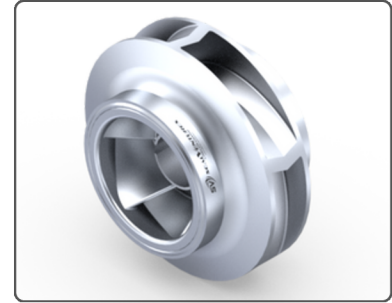
**SHAFT**

Pump shafts are rotating mechanical components of a pump that transmit power from the motor to the impeller. They are typically made of precision machined steel and can be subjected to high stress and vibration levels.



**SHAFT SLEEVE**

A shaft sleeve refers to a hollow metal tube that has a cylinder-like shape. It is mounted over a shaft and shaft assembly. Such mounting is done so that it can be protected against any erosion or corrosion that is likely to occur in the due course of action.



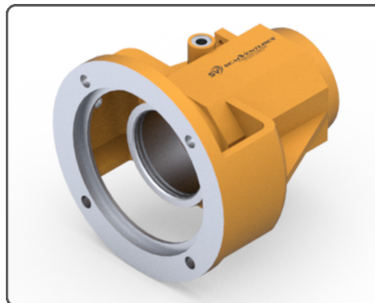
**IMPELLER**

An impeller is a rotating component of a centrifugal pump that accelerates fluid outward from the center of rotation, thus transferring energy from the motor that drives the pump to the fluid being pumped.



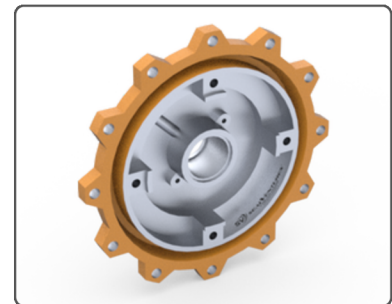
**CASING**

The pump casing refers to the outside shell of the pump. It has to seal off the inside of the unit to the outside with respect to pressure and fluids. The structure of the casing differs depending on the type of pump.



**BEARING HOUSING**

The pump bearing housing is a protective enclosure that supports the shaft and bearing assembly, ensuring precise alignment while dissipating heat and excluding contaminants. It simultaneously serves as a lubricant reservoir, maintaining a steady oil or grease supply to minimize friction and extend the pump's operational life.



**STUFFING BOX**

A stuffing box of a pump houses a gland that compresses the packing used to seal the pumped fluid. It prevents leakage along the shaft that passes through a hole in the pump. Stuffing box reliability is critical to the condition and performance of the whole fluid sealing program.



**BEARING COVER**

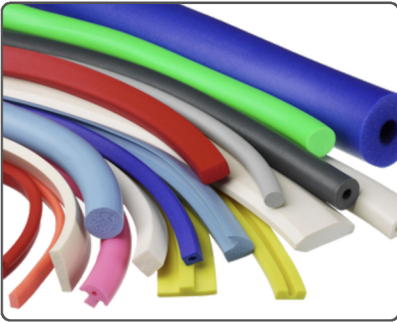
The pump bearings support the hydraulic loads imposed on the impeller, the mass of impeller and shaft, and the loads due to the shaft coupling or belt drive.



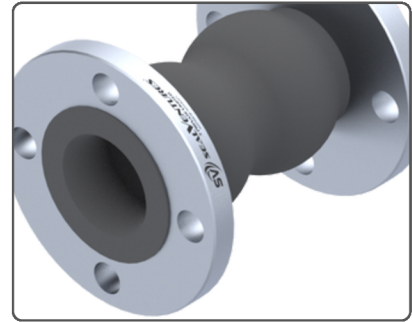
**WEAR RING**

Pump wear rings are the contact zone between rotating and stationary parts. During start-up, shut down, and off-design operation, the rotating and stationary rings come into contact.





**SILICONE SPONGES STRIPS**



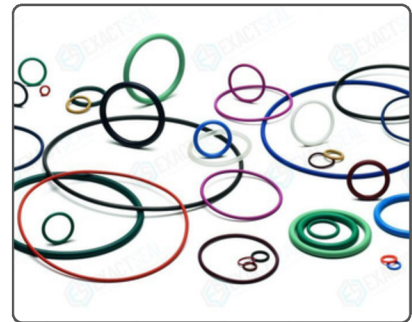
**RUBBER EXPANSION BELLOWS**



**RUBBER DIAPHRAGMS**



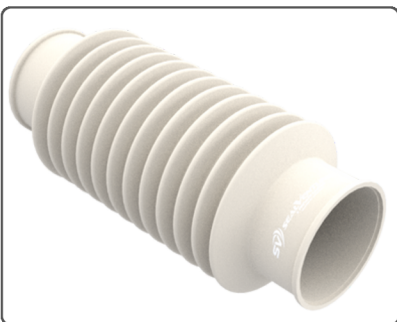
**FBD GASKET**



**ALL TYPES OF O'RING**



**TRI CLAMP GASKET (T.C GASKET)**



**SILICONE BELLOWS**



**FBD GASKET**



## Quality Assured

At Sealventures India Private Limited, we maintain quality management system with strong emphasis on the continuous improvement quality, engineering, manufacturing & business process.



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