

SINCE 2001



**SUPERPROOF®**  
Innovative Sealing Solutions

**SUPERPROOF SEALS ENGINEERING PVT. LTD.**

Manufacturer of Mechanical Seals, Seal Support Systems & Bearing Isolators

- Petrochemicals
- Refineries
- Power Plant
- Fertilizers
- Pharma
- Chemical
- Marine
- Food & Beverages



ATEX 2014/34/EU



***“We Provide Innovative and Cost-Effective Industrial Solution”***



**SUPERPROOF®**  
Innovative Sealing Solutions

SUPERPROOF Seals Engineering Pvt. Ltd. was established in the year January, 2001 by one of our young and dynamic Directors name Mr. ZUBER H. CHAROLIA, Mr. AKIL I. MANASIYA in the name of M/s SUPER PROOF ENGINEERING WORKS

The team of Directors having vast experience of more than twelve years in this field before this firm was established. During his experience tenure he worked personally in machining, designing and troubleshooting solution and get lots of experience in sealing solutions of Mechanical Seals in the chemical process industries

After completion of ten (10) years we changed our proprietor firm to the private limited and named M/s SUPER PROOF SEALS ENGINEERING PVT. LTD. in the year January, 2011

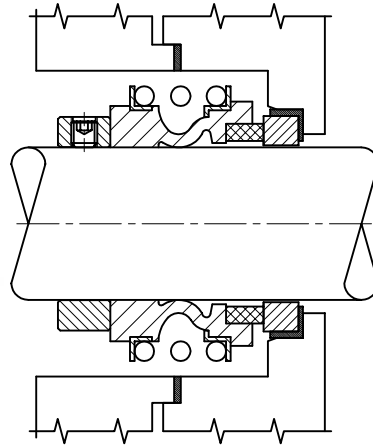
We having our manufacturing unit at Khali, (Siddhpur - Gujarat) with all modern and advanced equipment like CNC & VMC machines, lathe machines, drilling machines, grinding and lapping machines etc to testify to manufacture and reach out our valuable customers of their requirement of Mechanical Seals through Quality Control process. Our Mechanical Seals itself as explanatory products to sealing solutions in the chemical process industries.

SUPERPROOF made a research in sealing solution and developed our own type ZR100/D, ZR200/D, 531/D/B (Metallic Pump and mills) and ZR300/D (Non Metallic Pump) Mechanical Seals which is very suitable and given satisfactory performance for Slurry application in Process Industries (Metallic Pump and side entry mill) and Abrasive Slurry in Pickling and ARP plant of Steel Industries (Non Metallic Pump).

SUPERPROOF Seals are designed as per latest International Standard like En12756 to comply with International norms and regulations on Emission control. Also our firm is TUV Austria EN ISO-9001:2008 certified company which is proven of our quality products of Mechanical Seals

SUPERPROOF having vast clientele in all over India and as well as abroad like Bearing Isolator Kingdom of Saudi Arabia, Indonesia, Thailand, USA, Nigeria, Iran, South Africa etc

## Seal Type 21 - Rubber Bellow



### FEATURES

Unbalance Single Pusher Inside  
Mounted Rubber Bellow Seal,  
Independent Direction of Rotation.

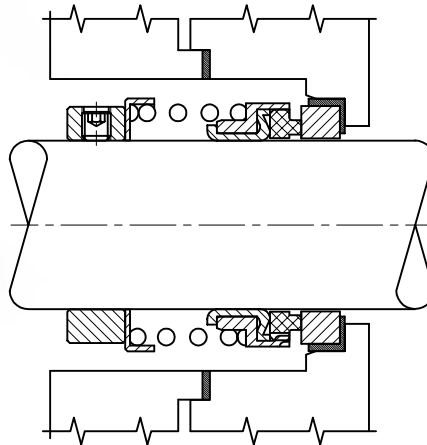
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : Ceramic, SIC, TC, Lecrolloy  
Elastomer : FKM, NBR, EPDM,  
MOC : SS304, SS316

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 140°C  
Speed : 3600 r.p.m.

## Seal Type 22 - Rubber Bellow



### FEATURES

Unbalance Single Pusher Inside  
Mounted Rubber Bellow Seal,  
Independent Direction of Rotation.

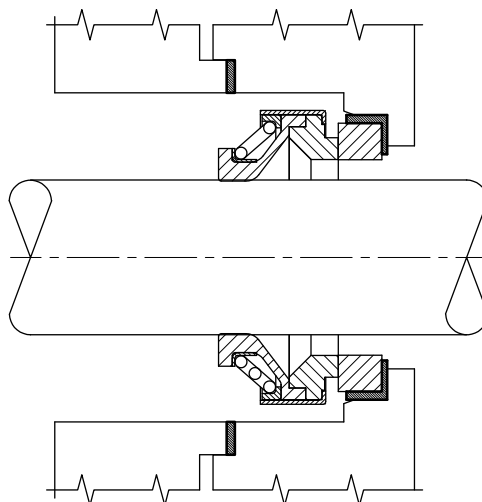
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : Ceramic, SIC, TC, Lecrolloy  
Elastomer : FKM, NBR, EPDM,  
MOC : SS304, SS316

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 140°C  
Speed : 3600 r.p.m.

## Seal Type 23 - Rubber Bellow



### FEATURES

Unbalance Short Length Single Pusher  
Inside Mounted Rubber Bellow Seal,  
Independent Direction of Rotation.

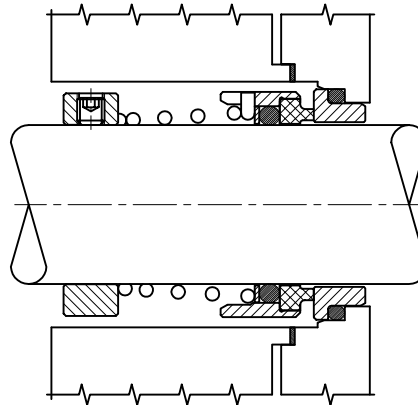
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : Ceramic, SIC, TC, Lecrolloy  
Elastomer : FKM, NBR, EPDM,  
MOC : SS304, SS316

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 140°C  
Speed : 3600 r.p.m.

## Seal Type 31 - Conical Spring



### FEATURES

Unbalance Pusher Seal, Inside Mounted Conical Coil Spring Mechanical Seal, Independent Direction of Rotation with Central Tapered Spring.

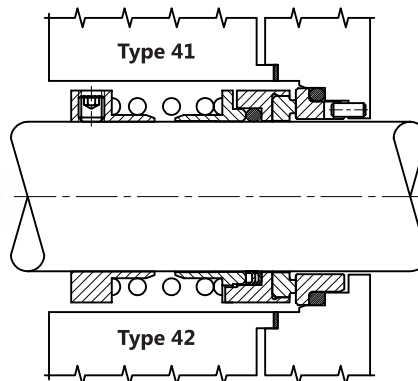
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : Ceramic, SIC, TC  
Elastomer : FFKM, FKM, PTFE, GFT, EPDM, NBR  
MOC : SS304, SS316, Duplex, Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 41 & 42 - Single Coil Spring



### FEATURES

Unbalance Pusher Seal, Inside Mounted Helical Single Coil Spring Mechanical Seal, Secondary Seal as 'O' Ring (Type-41) and 'V' packing as (Type-42). Independent Direction of Rotation.

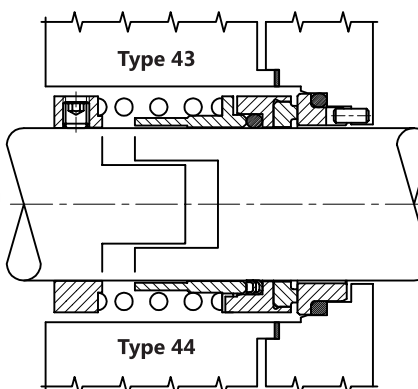
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : Ceramic, SIC, TC  
Elastomer : FFKM, FKM, PTFE, GFT, EPDM, NBR  
MOC : SS304, SS316, Duplex, Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 43 & 44 - Single Coil Spring



### FEATURES

Unbalance Pusher Seal, Inside Mounted Helical Single Coil Spring Mechanical Seal, Secondary Seal as 'O' Ring (Type-43) and 'V' packing as (Type-44). Independent Direction of Rotation through Study Lugs.

### MATERIALS

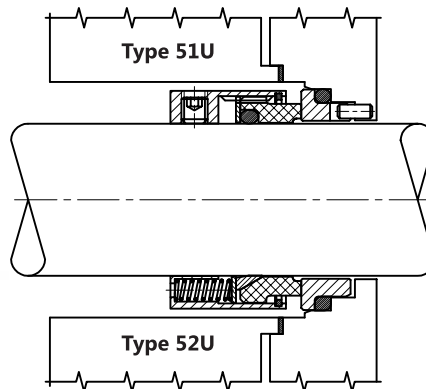
Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : Ceramic, SIC, TC  
Elastomer : FFKM, FKM, PTFE, GFT, EPDM, NBR  
MOC : SS304, SS316, Duplex, Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 250°C  
Speed : 3600 r.p.m.



## Seal Type 51U & 52U - Multi Spring



### FEATURES

Unbalance Pusher seal, Inside Mounted Multi Spring Type Mechanical Seal, Secondary Seal as 'O' Ring (Type-51U) and PTFE Wedge as (Type 52U). Dual Directional Design.

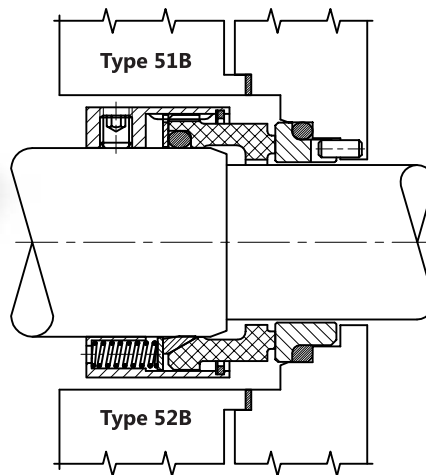
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIC, TC  
Seat Faces : Ceramic, SIC, TC  
Elastomer : FFKM, FKM, PTFE, GFT, EPDM, NBR  
MOC : SS304, SS316, Duplex, Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 51B & 52B - Multi Spring



### FEATURES

Balance Pusher Seal, Inside Mounted Multi Spring Type Mechanical Seal, Secondary Seal as 'O' Ring (Type-51B) and PTFE Wedge as (Type 52B). Dual Directional Design.

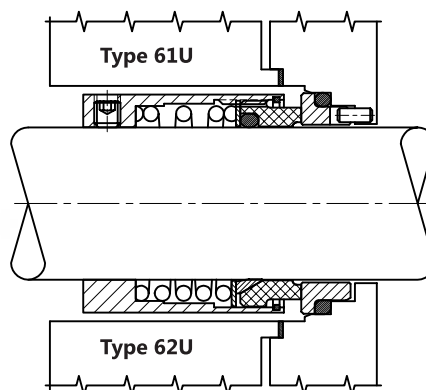
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIC, TC  
Seat Faces : Ceramic, SIC, TC  
Elastomer : FFKM, FKM, PTFE, GFT, EPDM, NBR  
MOC : SS304, SS316, Duplex, Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 20 bar  
Temperature : -20° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 61U & 62U - Single Coil Spring



### FEATURES

Unbalance Pusher Seal, Inside Mounted Helical Single Coil Spring Mechanical Seal, Secondary Seal as 'O' Ring (Type-61U) and PTFE Wedge packing as (Type-62U). Independent Direction of

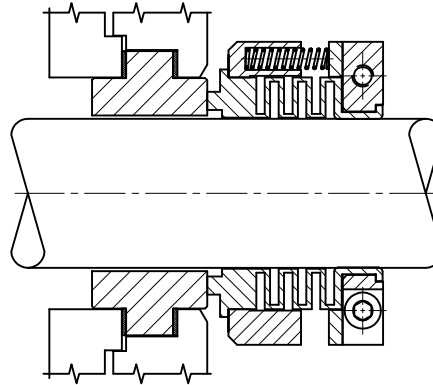
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIC, TC  
Seat Faces : Ceramic, SIC, TC  
Elastomer : FFKM, FKM, PTFE, GFT, EPDM, NBR  
MOC : SS304, SS316, Duplex, Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -20° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 71 - PTFE Bellow



### FEATURES

Outside Mounted Seal, Hydraulically Balanced PTFE Bellow Mechanical Seal, Independent Direction of Rotation, Dual Directional Multi Spring Design.

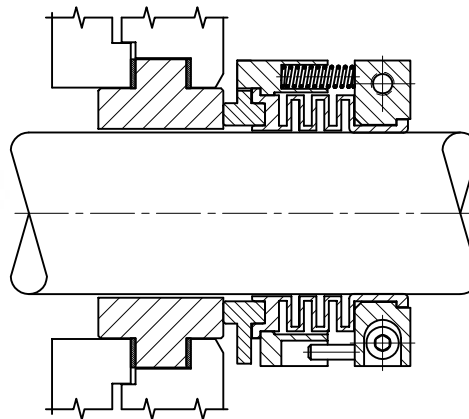
### MATERIALS

Seal Ring Faces : GFT, SIFT  
Seat Faces : Ceramic, SIC  
Elastomer : PTFE, GFT  
MOC : SS316, Alloy-20, Hast-C  
Bellow MOC : PTFE + GFT Composite

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 100mm  
Pressure : Up to 5 bar  
Temperature : -30° to 110°C  
Speed : 3600 r.p.m.

## Seal Type 72 - PTFE Bellow With Replaceable Face



### FEATURES

Outside Mounted Seal with Replaceable Face, Hydraulically Balanced PTFE Bellow Mechanical Seal Independent Direction of Rotation, Dual Directional Multi Spring Design.

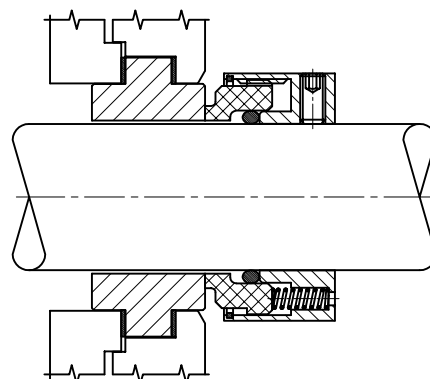
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIFT, SIC  
Seat Faces : Ceramic, SIC  
Elastomer : PTFE, GFT  
MOC : Alloy-20, Hast-C  
Bellow MOC : PTFE + GFT Composite

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 100mm  
Pressure : Up to 5 bar  
Temperature : -30° to 110°C  
Speed : 3600 r.p.m.

## Seal Type 73 - Reverse Balance Multi Spring



### FEATURES

Outside Mounted Seal, Reverse Balance Design, all Metallic Parts Isolated from Pumping Media. Independent Direction of Rotation. Dual Directional Multi Spring Design.

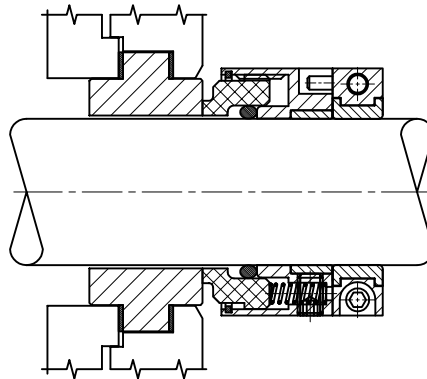
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIC, TC  
Seat Faces : Ceramic, SIC  
Elastomer : FFKM, FKM, PTFE, TTV,  
: EPDM, NBR  
MOC : SS304, SS316, Duplex,  
Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 12mm to 100mm  
Pressure : Up to 8 bar  
Temperature : -30° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 74- Reverse Balance Multi Spring



### FEATURES

Outside Mounted Seal, Reverse Balance Design, all Metallic Parts Isolated from Pumping Media. Specially Design Clamp Ring Eliminates Slipping on Shaft. Independent Direction of Rotation. Dual Directional Multi Spring Design.

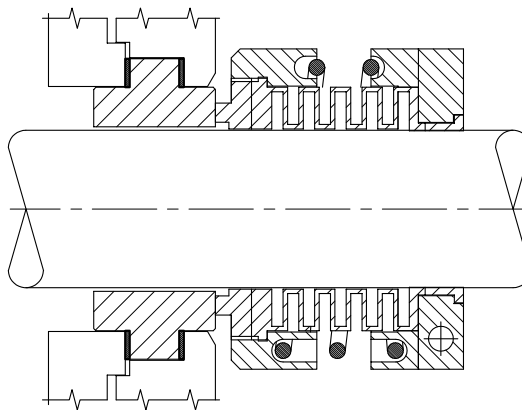
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIC, TC  
Seat Faces : Ceramic, SIC  
Elastomer : FFKM, FKM, PTFE,  
: TTV, EPDM, NBR  
MOC : SS304, SS316, Duplex,  
Alloy-20, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 12mm to 70mm  
Pressure : Up to 8 bar  
Temperature : -30° to 250°C  
Speed : 3600 r.p.m.

## Seal Type 75- Single Spring PTFE Bellow



### FEATURES

Outside Mounted Seal, Hydraulically Balanced PTFE Bellow Mechanical Seal, Independent Direction of Rotation, Dual Directional Single Spring Design.

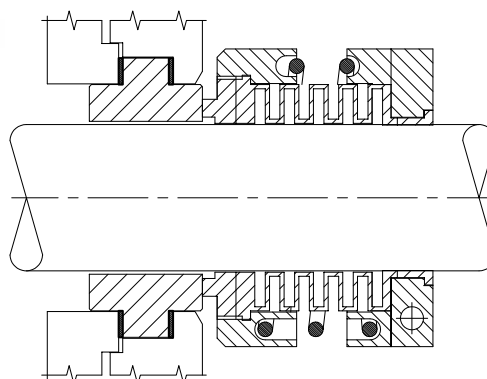
### MATERIALS

Seal Ring Faces : GFT, SIFT  
Seat Faces : Ceramic, SIC  
Elastomer : PTFE + GFT  
MOC : SS316, Alloy-20, Hast-C  
Bellow MOC : PTFE + GFT Composite

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 100mm  
Pressure : Up to 5 bar  
Temperature : -30° to 110°C  
Speed : 3600 r.p.m.

## Seal Type 76- Single Spring PTFE Bellow with Replaceable Face



### FEATURES

Outside Mounted Seal with Replaceable Face, Hydraulically Balanced PTFE Bellow Mechanical Seal, Independent Direction of Rotation, Dual Directional Single Spring Design.

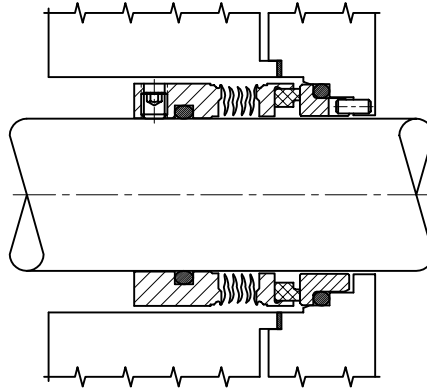
### MATERIALS

Seal Ring Faces : Carbon, GFT, SIFT, SIC  
Seat Faces : Ceramic, SIC  
Elastomer : PTFE + GFT  
MOC : SS316, Alloy-20, Hast-C  
Bellow MOC : PTFE + GFT Composite

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 100mm  
Pressure : Up to 5 bar  
Temperature : -30° to 110°C  
Speed : 3600 r.p.m.

## Seal Type 81- Metal Bellow (O-Ring Type)



### FEATURES

Single Acting Dual Directional Design,  
Inside Mounted Seal. Inherently Balanced  
Metal Bellow Mechanical Seal.  
Independent Direction of Rotation.

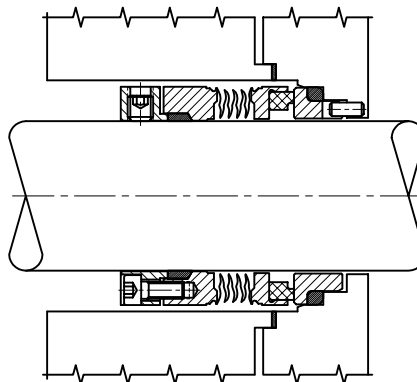
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : TC, SIC  
Elastomer : FFKM, FKM, PTFE, FEP  
End Fitting MOC : SS316, Duplex,  
Carpenter-42, Hast-C  
Bellow MOC : AM350, Inconel, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 100mm  
Pressure : Up to 20 bar  
Temperature : -70° to 260°C  
Speed : 3600 r.p.m.

## Seal Type 82- Metal Bellow (Packing Type)



### FEATURES

Single Acting Dual Directional Design,  
Inside Mounted Seal. Inherently Balanced  
Metal Bellow Mechanical Seal.  
Independent Direction of Rotation.

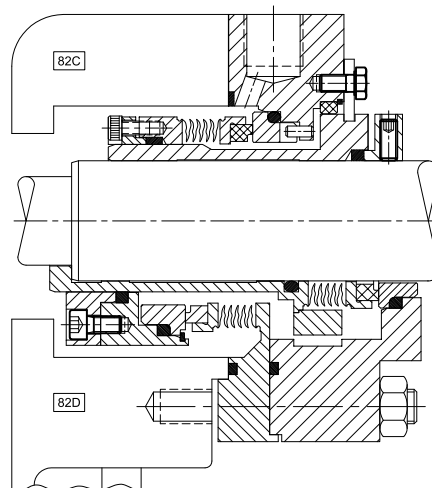
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : TC, SIC  
Elastomer : Flexible Graphite  
End Fitting MOC : SS316, Duplex,  
Carpenter-42, Hast-C  
Bellow MOC : AM350, Inconel, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 70mm  
Pressure : Up to 20 bar  
Temperature : -70° to 350°C  
Speed : 3600 r.p.m.

## Seal Type 81/C & 82/D- Single & Double Metal Bellow



### FEATURES

Single & Double Cartridge Metal Bellow  
Mechanical Seal, Specialty for High  
Temperature Application, Inside  
Mounted Seal, Unitized, Easy to fit  
Design Suitable for API Plan 52, 53, 54,

### MATERIALS

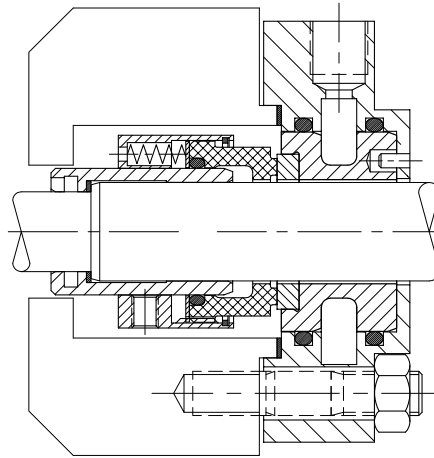
Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, Graphite  
End Fitting MOC : SS316, Duplex,  
Carpenter-42, Hast-C

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Full Vacuum to 8 bar  
Temperature : -70° to 350°C  
Speed : 3600 r.p.m.



## Seal Type 51B/HW - Single Balance Semi Cartridge



### FEATURES

Single Semi Cartridge Balance Mechanical Seal, Specialty for Condenset Water, Unitized, Easy to Fit Design Cooled Seat Matting Ring Design Seal.

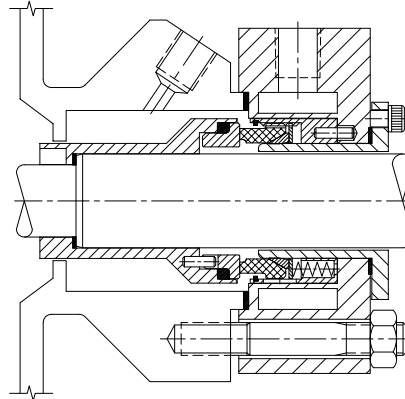
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM  
End Fitting MOC : SS316, Ss304, Alloy-20, Hast-C and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Up to 20 bar  
Tempreture : -30° to 240°C  
Speed : 3600 r.p.m.

## Seal Type 52U/HO - Single Unbalance Semi Cartridge



### FEATURES

Single Semi Cartridge Unbalance Mechanical Seal, Specialty for Vacuum Application for Food oil Industries, Seat Mounted Design Seal, Unitized, Easy to Fit Design

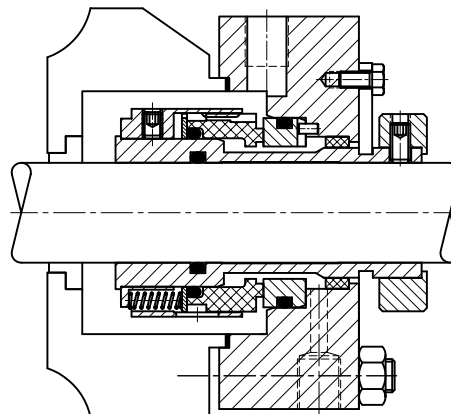
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, Graphite + PTFE  
End Fitting MOC : SS316, SS304, Alloy-20, Hast-C and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Full Vaccum to 8 bar  
Tempreture : -30° to 240°C  
Speed : 3600 r.p.m.

## Seal Type 55B/C - Single Balance Cartridge



### FEATURES

Single Cartridge Balanced Mechanical Seal Dual Directional Design, Inside Mounted Seal, Unitized, Easy to Fit Design.

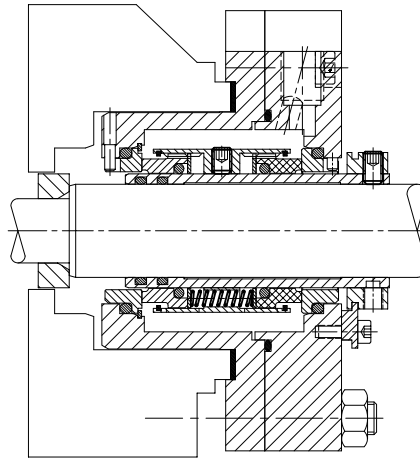
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, PTFE, EPDM  
End Fitting MOC : SS316, SS304, Alloy-20, Hast-C and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Up to 35 bar  
Tempreture : -30° to 240°C  
Speed : 3600 r.p.m.

## Seal Type 51U/D & 52U/D- Back To Back Double Cartridge



### FEATURES

Double Back to Back Cartridge Design,  
Inside Mounted Double Seal, Unitized,  
Easy to Fit Design Suitable for API Plan  
52, 54

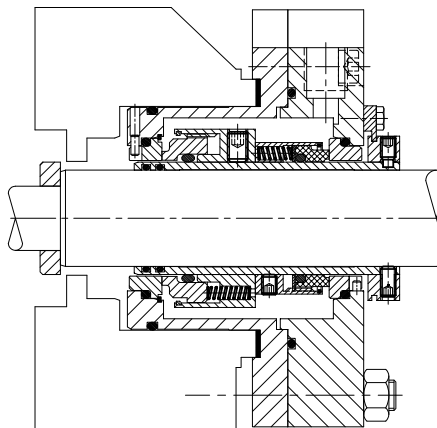
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM  
TTV, PTFE  
End Fitting MOC : SS316, SS304, Alloy-20,  
Hast-C and other MOC  
as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Up to 8 bar  
Temperature : -30° to 240°C  
Speed : 3600 r.p.m.

## Seal Type 73/51U/D - Reverse Balance Double Cartridge



### FEATURES

Double Reverse Balance Cartridge Design,  
Inside Mounted Double Seal, Inboard  
Reverse Balance, Outboard Unbalance,  
Unitized, Easy to Fit Design Suitable for  
API Plan 52, 53, 54

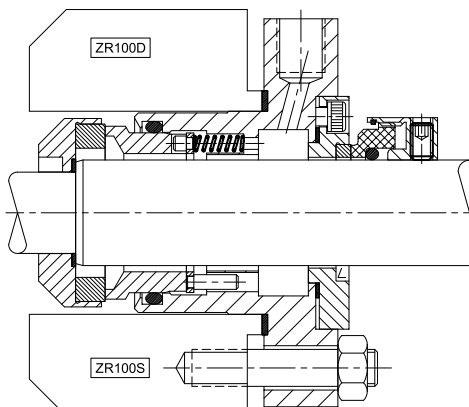
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM  
TTV, PTFE  
End Fitting MOC : SS316, SS304, Alloy-20,  
Hast-C and other MOC  
as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Up to 8 bar  
Temperature : -30° to 240°C  
Speed : 3600 r.p.m.

## Seal Type ZR100/S & ZR100/D - Single & Double Semi Cartridge



### FEATURES

Single & Double Semi Cartridge  
Mechanical Seal, Dual Directional Design,  
Slurry Seal up to 20% Inside Mounted  
Seal Balanced Seal, Unitized, Easy to Fit  
Design.

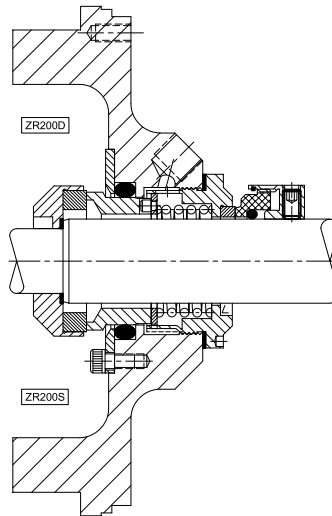
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV  
MOC : SS316, SS304, Duplex and  
other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 80mm  
Pressure : Full Vacuum to 8 bar  
Temperature : -30° to 260°C  
Speed : 3600 r.p.m.

## Seal Type ZR200/D- Single & Double Semi Cartridge With Back Plate



### FEATURES

Single & Double Semi Cartridge  
Mechanical Seal, Slurry Seal up to 60%  
Due to it's Specially Design of Stuffing  
Box. Inside Mounted Seal, Balanced Seal,  
Unitized, Easy to Fit Design.

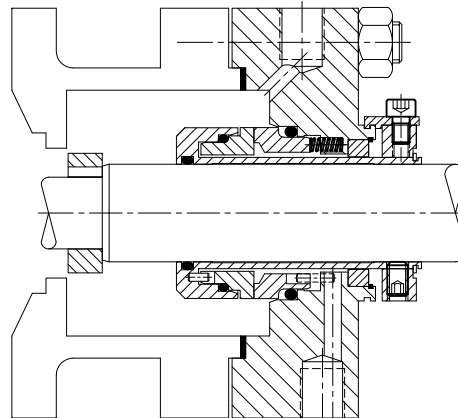
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV  
MOC : SS316, SS304, Duplex  
and other MOC as per  
Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 80mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30° to 260°C  
Speed : 3000 r.p.m.

## Seal Type ZR600/S - Single Cartridge Seal



### FEATURES

Single Cartridge Balance Mechanical Seal,  
Specially for Vacuum Application, Slurry  
Application Unitized, Easy to fit Design.

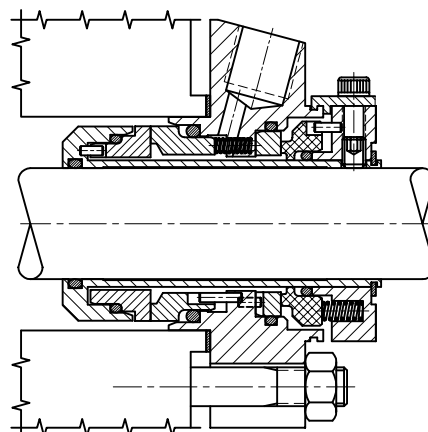
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM,  
TTV, PTFE  
MOC : SS316, SS304, Duplex  
and other MOC as per  
Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30° to 260°C  
Speed : 3600 r.p.m.

## Seal Type ZR600/D - Double Cartridge Seal



### FEATURES

Double Cartridge Balance Mechanical  
Seal, Specially for Vaccum Application,  
Slurry Aplication Inside Mounted Seal,  
Unitized, Easy to fit Design Suitable for  
API Plan 54

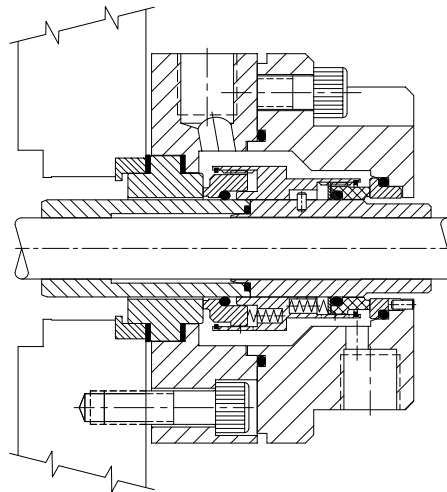
### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM,  
TTV, PTFE  
End Fitting MOC : SS316, SS304, Alloy-20,  
Hast-C and other MOC  
as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30° to 240°C  
Speed : 3600 r.p.m.

## Seal Type 73/51U/D- Double Seal for Non Metallic Pump



### FEATURES

Double Reverse Balance Semi Cartridge  
Inside Mounted, Mechanical Seal for Non  
Metalic Pump (PP, PVDF), Suitable for API  
Plan 53, 54

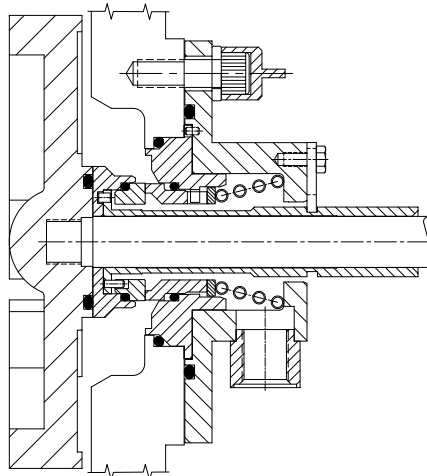
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : SIC, Ceramic  
Elastomer : FFKM, FKM, PTFE, GFT  
End Fitting MOC : SS316, Alloy-20, Hast-C  
and other MOC as per  
Required

### OPERATING CAPABILITIES

Shaft Dia : 10mm to 100mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30° to 120°C  
Speed : 3600 r.p.m.

## Seal Type ZR300WC- Single Seal for Non Metallic Pump



### FEATURES

Single Semi Cartridge Inside Mounted,  
Mechanical Seal for Non Metalic Pump  
(PVDF, PFA, FEP), Special Dry Running  
Seal without External Cooling.

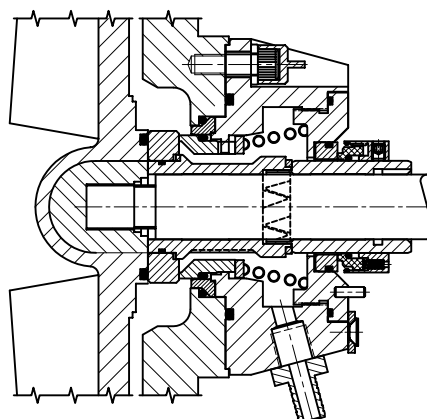
### MATERIALS

Seal Ring Faces : SIC  
Seat Faces : SIC  
Elastomer : FFKM, FKM, AFLAS, EPDM  
End Fitting MOC : SS316, SS304, Alloy-20,  
Hast-C and other MOC  
as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 70mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30° to 160°C  
Speed : 3600 r.p.m.

## Seal Type ZR300/D IMS - Slurry Seal For Non-Metalic Pump



### FEATURES

Double Semi Cartridge Mechanical Seal,  
Abrasive Slurry Seal up to 30% due to it's  
Specially Design of Back Plate and Shaft,  
Inside Mounted Balanced Seal. Suitable  
for API Plan 54

### MATERIALS

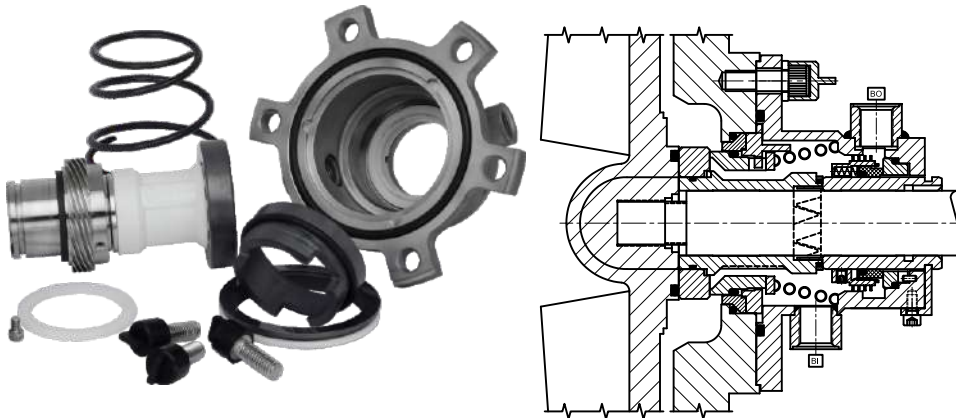
Seal Ring Faces : Carbon, SIC  
Seat Faces : Ceramic, SIC  
Elastomer : FFKM, FKM, AFLAS, EPDM  
MOC : SS316, PVDF and other  
MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 80mm  
Pressure : Up to 5 bar  
Tempreture : Up to 120°C  
Speed : 3600 r.p.m.



## Seal Type ZR300/51U/P IMS - Slurry Seal For Non-Metalic Pump



### FEATURES

Double Cartridge Mechanical Seal, Abrasive Slurry seal up to 30% due to it's Specially Design of Back Plate and Shaft, Additional Pumping Ring Helps to Provide Better Lubrication to Seal Faces, Inside Mounted Balanced Seal. Suitable for API Plan 53, 54

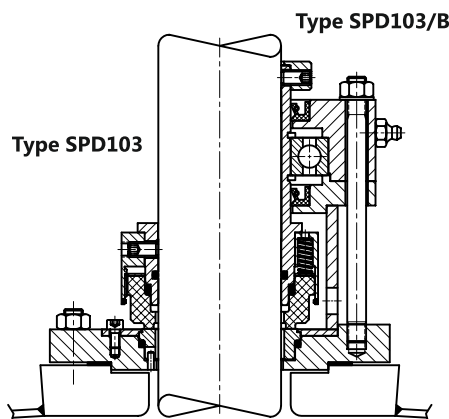
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : Ceramic, SIC  
Elastomer : FFKM, FKM, AFLAS, EPDM  
MOC : SS316, PVDF and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 80mm  
Pressure : Up to 8 bar  
Tempreture : Up to 120°C  
Speed : 3600 r.p.m.

## Seal Type SPD103 & SPD103/B - Dry Running Seal



### FEATURES

Dry Running Balance Mechanical Seal, This Seal are Excellent with Low RPM Operation in Vacuum & Pressure Conditions, Design without Bearing (Type - SPD103) OR with Integral Bearing (Type - SPD103/B), Design For Top & Bottom and Side Entry.

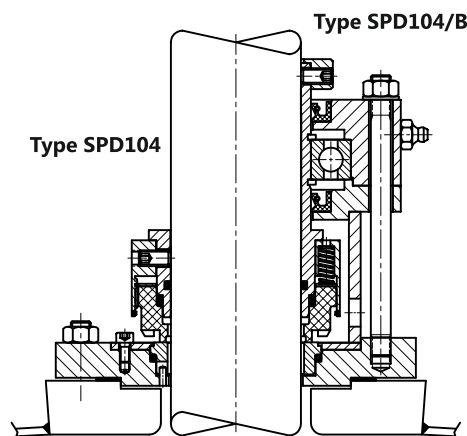
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304, MS and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 150mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30° to 250°C  
Speed : 3600 r.p.m.

## Seal Type SPD104 & SPD104/B - Dry Running Seal For High Speed



### FEATURES

High speed Dry Running Balance Mechanical Seal, This Seal are Excellent with High RPM Operation in Vacuum & Pressure Conditions, Design without Bearing (Type - SPD104) OR with Integral Bearing (Type - SPD104/B), Design For Top & Bottom and Side Entry.

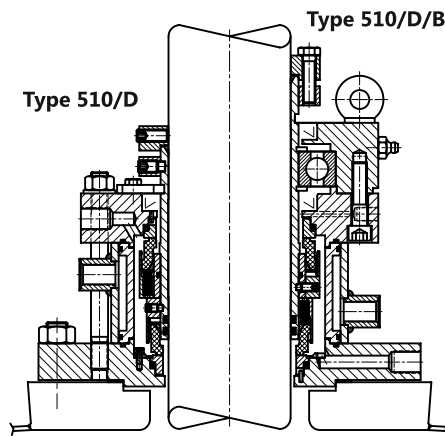
### MATERIALS

Seal Ring Faces : Spl Carbon  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304, MS and MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 150mm  
Pressure : Full Vacuum to 8 bar  
Tempreture : -30°C to 250°C  
Speed : 900 r.p.m.

## Seal Type 510/D & 510/D/B - Double Seal For SS Reactor



### FEATURES

Double Balanced Mechanical Seal. This Seal is Excellent with low RPM Operation in Vacuum & Pressure Conditions, Design without Bearing (Type - 510/D) OR with Integral Bearing (Type - 510/D/B), Design For Top & Bottom and Side Entry.

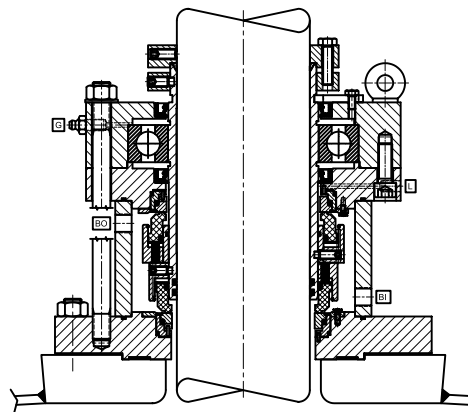
### MATERIALS

Seal Ring Faces : SIC, Carbon  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304, MS and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 200mm  
Pressure : Full Vacuum to 30 bar  
Temperature : -30°C to 260°C  
Speed : 300 r.p.m.

## Seal Type 511/D/B - Double Seal For Hydrogenator



### FEATURES

High Pressure Double Balanced Mechanical Seal for Hydrogenator. This Seal is Excellent with Low RPM Operation in Vacuum and High Pressure Conditions. Design with Integral Bearing. Design for

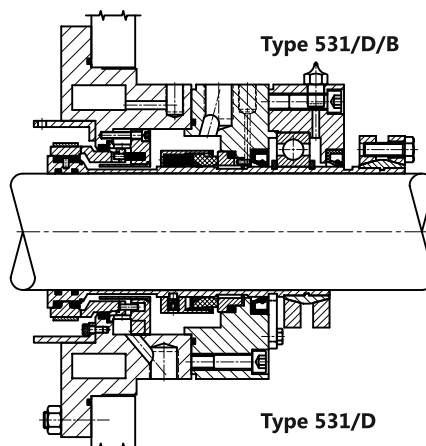
### MATERIALS

Seal Ring Faces: Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304 MS and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 200mm  
Pressure : Full Vacuum to 50 bar  
Temperature : -30°C to 260°C  
Speed : 400 r.p.m.

## Seal Type 531/D & 531/D/B - Double Seal For Mill



### FEATURES

Double Balance Mechanical Seal for Mill & Mixture. This Seal is Excellent with High RPM Operation in Vacuum and Pressure Conditions, Design without Bearing (Type - 531/D) OR with Integral Bearing (Type - 531/D/B), Design For Side Entry.

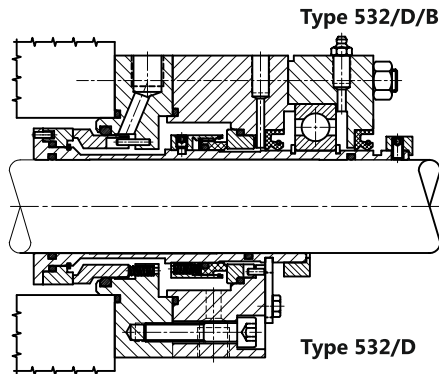
### MATERIALS

Seal Ring Faces: Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304 and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 50mm to 85mm  
Pressure : Full Vacuum to 10 bar  
Temperature : -30°C to 200°C  
Speed : 1500 r.p.m.

## Seal Type 532/D & 532/D/B - Double Seal For Bottom Entry



### FEATURES

Double Balanced Mechanical Seal, This Seal is Excellent with Low RPM Operation in Vacuum and Pressure Conditions, Design without Bearing (Type - 532/D) OR with Integral Bearing (Type - 532/D/B), Design for Side and Bottom Entry.

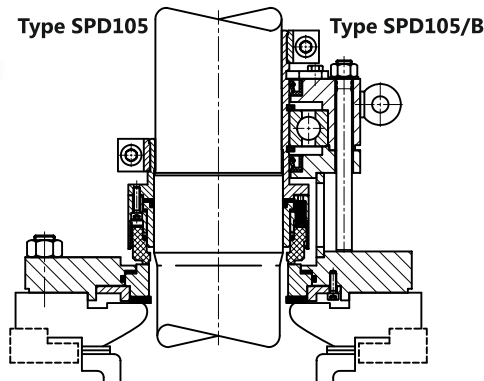
### MATERIALS

Seal Ring Faces : SIC, Carbon  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304 and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 150mm  
Pressure : Full Vacuum to 10 bar  
Temperature : -30°C to 260°C  
Speed : 300 r.p.m.

## Seal Type SPD105 & SPD105/B - Dry Running Seal For Glass Lined



### FEATURES

Dry Running Balance Mechanical Seal for Glass Lined Reactor. This Seal is Excellent with Low RPM Operation in Vacuum and Pressure Conditions, Design without Bearing (Type - SPD105) OR with Integral Bearing (Type - SPD105/B), Design for Top Entry.

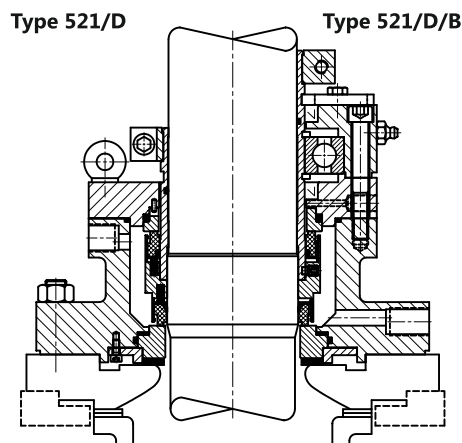
### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : Ceramic, SIC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304 and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 150mm  
Pressure : Full Vacuum to 8 bar  
Temperature : -30° to 150°C  
Speed : 250 r.p.m.

## Seal Type 521/D & 521/D/B - Double Seal For Glass Lined Reactor



### FEATURES

Double Balance Mechanical Seal for Glass Lined Reactor, This Seal is Excellent with Low RPM Operation in Vacuum and Pressure Conditions, Design without Bearing (Type - 521/D) OR with Integral Bearing (Type - 521/D/B), Design for Top Entry.

### MATERIALS

Seal Ring Faces : Carbon, SIC  
Seat Faces : Ceramic, SIC  
Elastomer : FFKM, FKM, EPDM, TTV, PTFE  
MOC : SS316, SS304 and other MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 25mm to 150mm  
Pressure : Full Vacuum to 12 bar  
Temperature : -30°C to 260°C  
Speed : 250 r.p.m.

## Seal Type 541/B & 541/D/B - Single & Double Mechanical Seal For ANFD



### FEATURES

Single & Double Balanced Mechanical Seal for ANFD (Agitator Nutsche Filter Dryers), This Seal is Excellent with Low RPM Operation in Vacuum and Pressure Conditions. The Bellow Assembly is for Long Fatigue Life. Design with Solid Antifriction Liner Integral Bearing (Type- 541/D/B), Design for Top Entry.

### MATERIALS

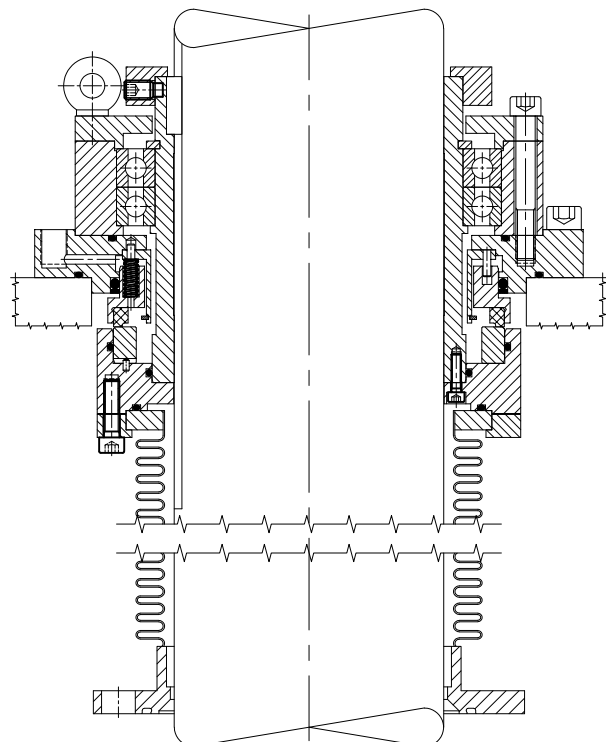
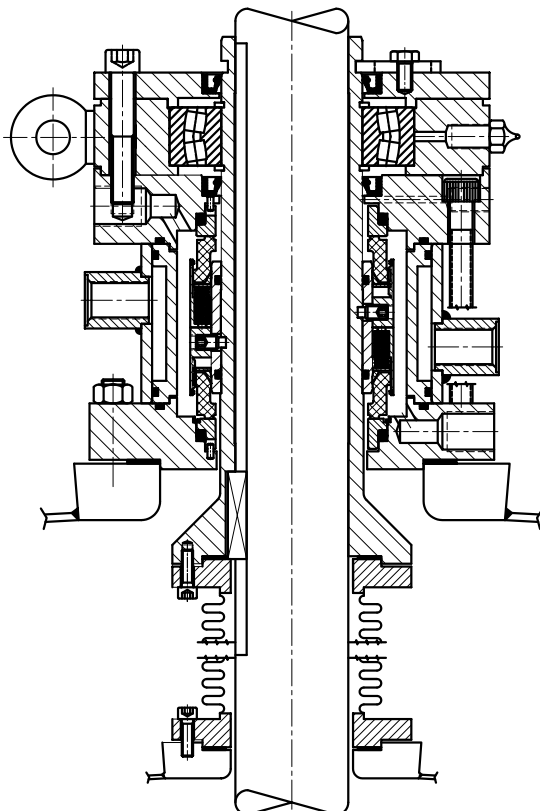
Seal Ring Faces: Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM,  
TTV, PTFE  
MOC : SS316 - Duplex,  
Hastelloy - C and other  
MOC as per Required

### OPERATING CAPABILITIES

Shaft Dia : 50mm to 200mm  
Pressure : Up to 5 bar  
Temperature : -30°C to 260°C  
Speed : 100 r.p.m.

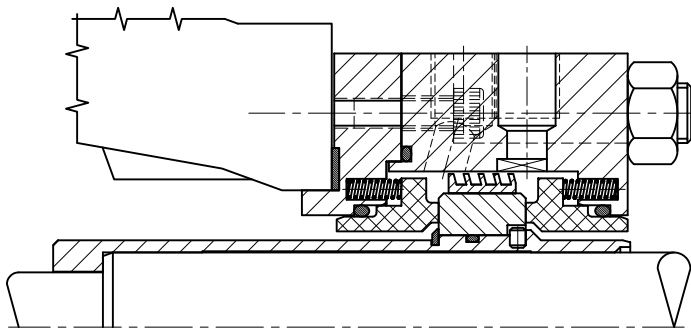
### APPLICATION

Agitator Nutsche Filter and Dryers  
Rotary Vacuum Paddle Dryers  
Horizontal Reactors with Expanding Shaft





## Seal Type ZR400/D - Face to Face Seal



### FEATURES

Face to Face Double Balanced Mechanical Seal, This Seal is Excellent for High Pressure and High Speed Conditions.

### MATERIALS

Seal Ring Faces : Sp. Carbon, SIC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, NBR  
MOC : SS316, Duplex,  
Super Duplex  
Hastelloy C

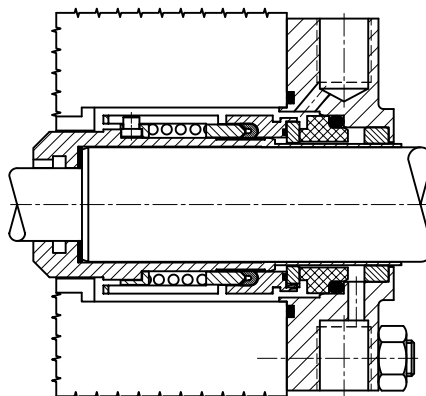
### OPERATING CAPABILITIES

Shaft Dia : 20mm to 100mm  
Pressure : Up to 60 bar  
Temperature : -30°C to 260°C  
Speed : 3600 r.p.m.

### APPLICATION

Ideal for Boiler Feed Water and Heavy Duty Process Pumps.

## Seal Type 44UC - Single Spring



### FEATURES

Single Spring Balanced Mechanical Seal, This Seal is Excellent for High Pressure Conditions, Large Cross Section Elastomer U - Cup Dynamic Gasket.

### MATERIALS

Seal Ring Faces : Carbon, SIC, TC  
Seat Faces : SIC, TC  
Elastomer : FFKM, FKM, EPDM, NBR  
MOC : SS316, Duplex,  
Super Duplex,  
Hastelloy C

### OPERATING CAPABILITIES

Shaft Dia : 20mm to 100mm  
Pressure : Up to 40 bar  
Temperature : -30°C to 260°C  
Speed : 3600 r.p.m.

### APPLICATION

Ideal for Boiler feed Water and Hot Water Service.

## Seal Type TS 20 & TS 40 - Thermosyphon System

### FEATURES

The Thermosyphon provides Lubrication, Dissipate Heat and Maintain the Temperature and Required Pressure Gradient Across The Seal Faced in Case of Double Back to Back and Tandem Seal Arrangement for Pumps and Agitator Seal. Plan 52 and 53A Configurations, Economical Light and Heavy Duty Reservoir for General Service Applications. Instrumentation on each Reservoir is According to Local Standard and Can be Adepted to Suit Application and Customer Requirements. 304 and 316 Stainless Steel construction. Cooling Coil is Optional.

### MATERIAL

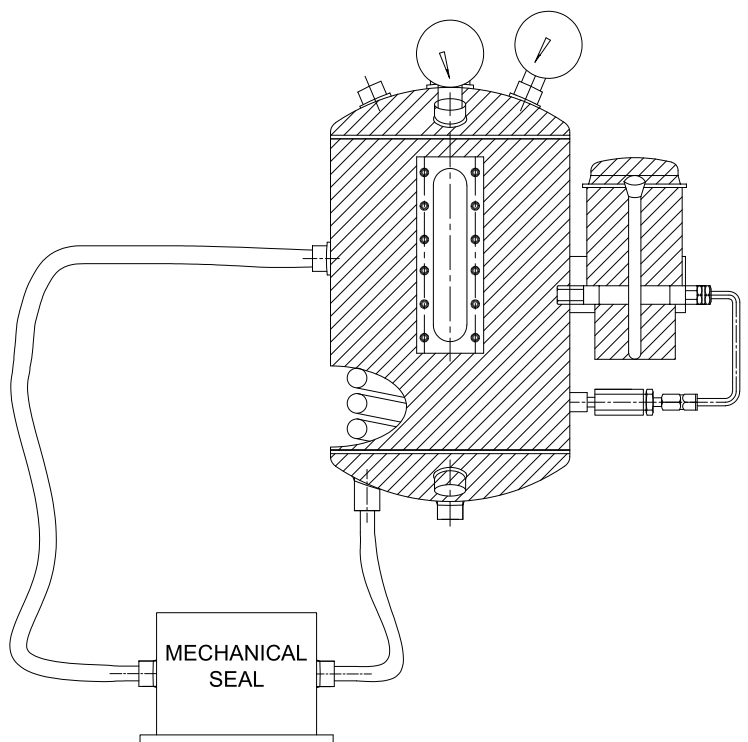
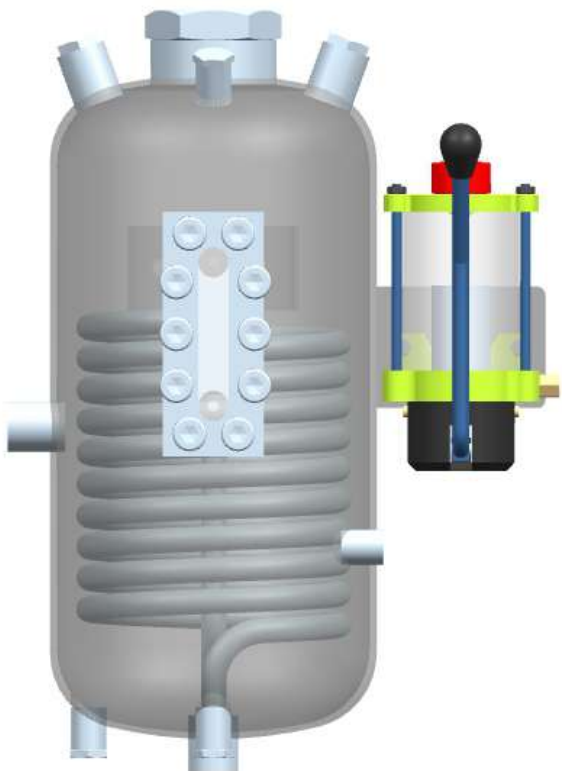
MOC : SS 316 ,SS 304 and MS

### OPERATING CAPABILITIES

TS 20 Pressure Limit : 20 bar

TS 40 Pressure Limit : 40 bar

Temperature : Up to 200°C



## Bearing Isolator



### APPLICATION

- \* Pumps
- \* Electric Motors
- \* Gear Box
- \* Turbines
- \* Blowers

### TYPES OF BEARING ISOLATOR

- \* Standard
- \* Magnetic
- \* Split Type
- \* Flange Type
- \* Surface Mount

### FEATURES

Bearing Isolator is Advanced Sealing Solution, That is used to Protect Bearings Againsts Moisture, Grit and Dust, which Extending Bearing Life, No more Shaft Wearing as Compare to Conventional Oil Seal. Bearing Isolator Used in Rotating Equipment, such as Electric Motors, Gearboxes, Pumps and Turbines. In Simple Terms a Bearing Isolator Consists of a Stationary Component (Stator) and a Rotary Component (Rotor), The assembly of these components Creates a Narrow Labyrinth Path through the Seal, This Design Prevents Ingress of Contaminants in to a Bearing Arrangement.

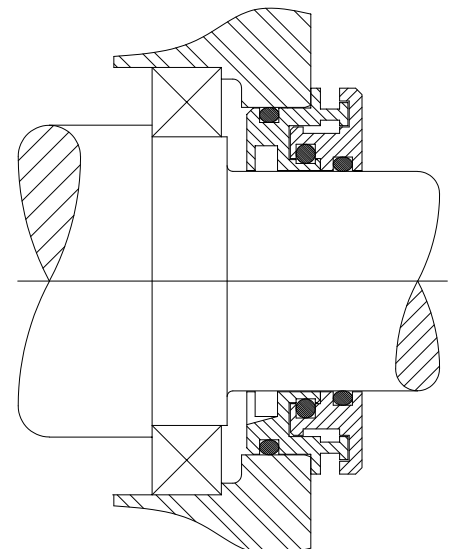
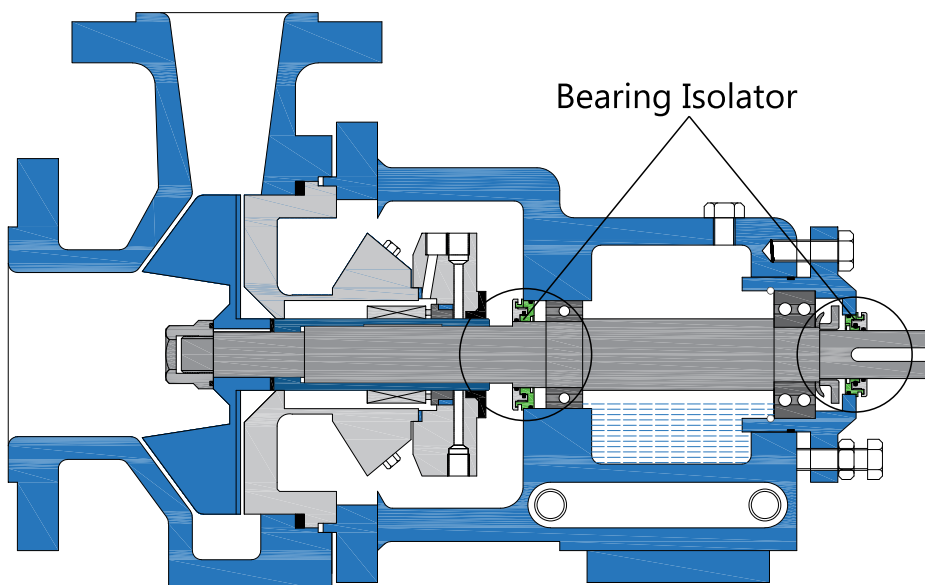
### FEATURES

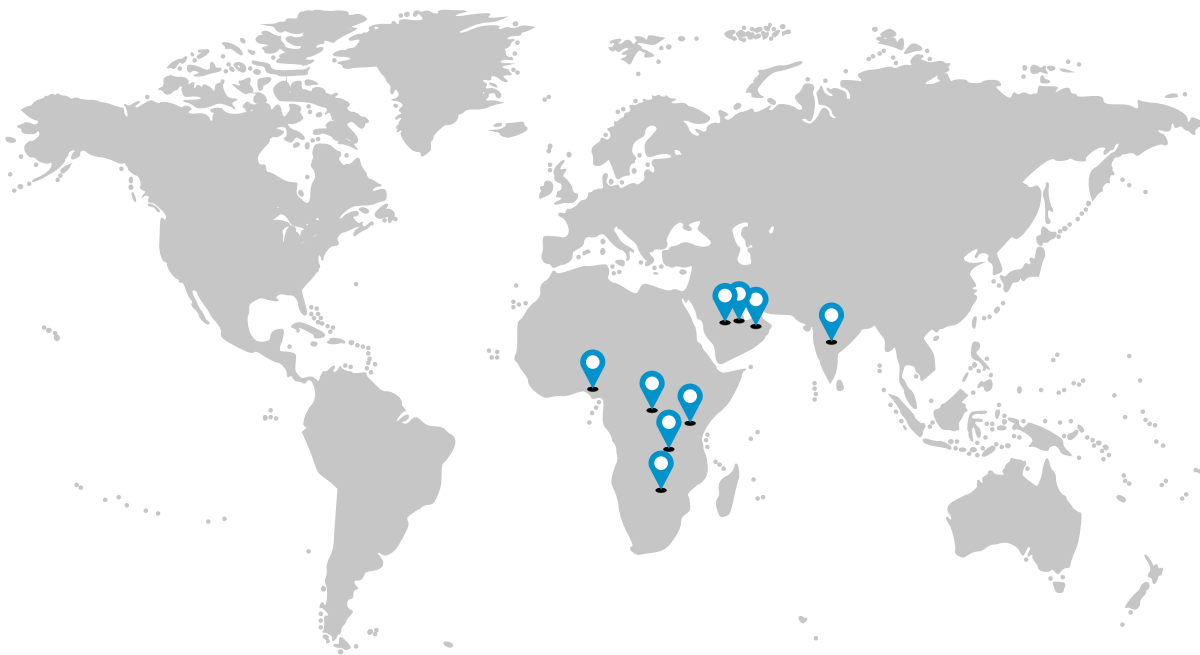
Material MOC : Standard Material: Bronze, on Request it can be Manufacturing in other material such a Stainless Steel, Aluminium, PTFE

Range : 15mm to 500mm

Tempressure : -30 to 200

Pressure : 0 Bar





SINCE 2001



# SUPERPROOF<sup>TM</sup>

## Innovative Sealing Solutions

### SUPERPROOF SEALS ENGINEERING PVT. LTD.

Manufacturer of Mechanical Seals, Seal Support Systems & Bearing Isolators

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