

**Quality is Engineered  
For Your Comfort**



ISO 9001 : 2015



- Mechanical Seals
- Rotary Joints
- Pump Spares
- Rubber Products



## THE COMPANY

Ascomech Industries is the leading manufacturer of Mechanical Seals to suit for various Pumps, Agitators - Top, Bottom and Side entry, Metal Reactors, Glass Lined Reactors, Compressor, Mixers, Blowers, Homogenizers, Vacuum Booster, Dyno Mill, Rotary Vacuum Dryer (RVD), and Agitated Nutsche Filter Dryer (ANFD) in various industries like Bulk Drugs, Pharmaceuticals, Herbal, Biotech, Chemicals, Dyes, Paper and Pulp, Food and Dairy, Beverages, Paint, Automobile, Thermal, Veg Oil, Fatty Acid, Cosmetic Plants, Caustic, Fertilizers, Pesticides, Oil Refineries, Petrochemicals, Textile, Water and Sewage, Railways, Shipping and Submarine, Aluminium, Coal, Manganese, Iron and Mineral Extraction and Metal and Process Industries.

### Services

Our Manufacturing range includes Pusher seals and non - pusher seals. It includes with Single, Conical, Wave and multi spring as well as Rubber Bellow, PTFE Bellow designs. Non - Pusher seals includes Metal Bellow along with Single and Double arrangements.

We can also supply equivalent range of Mechanical Seals and Spares as per sample for leading brands like John Crane, Flowserve, Eagle Burgmann, Chesterton, Borg Warner, Hi-Fab and Leak Proof etc.

### Our Aim

Ascomech Industries manufactures all the above products to very precise tolerance under rigid quality controls. This product are tested with continues research and development program to fulfill the demand of high performance quality products for Mechanical Seals & Spares

## OUR PRODUCTS

### Single Spring - Type : AI 108/A1

#### M.O.C ( Material Of Construction):

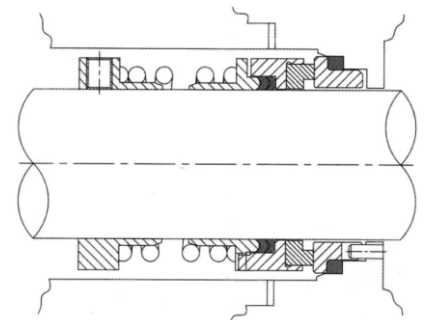
- Seal : SS 316, SS 304,
- Seal ring : Carbon / Sic / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : Viton / PTFE 'V' Ring

#### Limiting Parameters:

- Pressure : Upto 13.2kg/cm<sup>2</sup>
- Temperature : -23°C to 200°C
- Speed : 3000 RPM
- Size Range : 12 to 80mm

#### Main Advantages:

- Single Acting unbalance seal
- Bi-direction single spring drive
- Independent of direction of rotation
- Easy to install



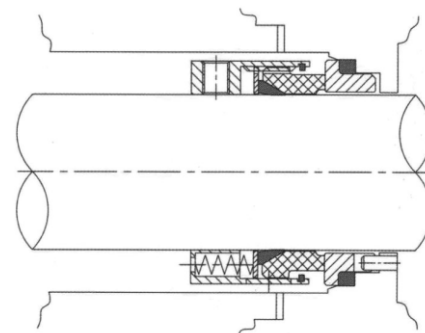
## Multi Spring - Type : AI 101/A1

### M.O.C ( Material Of Construction):

- Seal : SS 316, SS 304,
- Seal ring : Carbon / Sic / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : PTFE Wedge

### Limiting Parameters:

- Pressure : Upto 12kg/cm<sup>2</sup>
- Temperature : -25°C to 250°C
- Speed : upto 20 m/s
- Size Range : 14 to 200mm



### Main Advantages:

- Unbalanced Single Seal
- Multiple Springs
- Independent of direction of rotation
- PTFE wedge as a Secondary

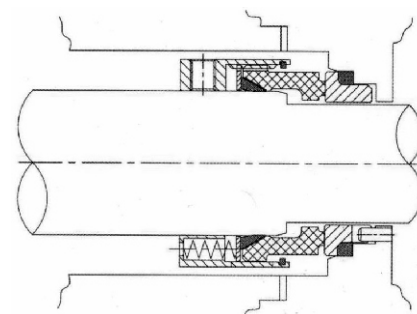
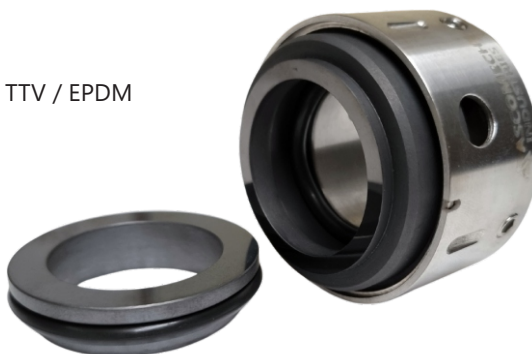
## Balanced Multi Spring - Type : AI 103/A1

### M.O.C ( Material Of Construction):

- Seal : SS 316, SS 304,
- Seal ring : Carbon / Sic / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : PTFE Wedge / Viton / TTV / EPDM

### Limiting Parameters:

- Pressure : Upto 9.5kg/cm<sup>2</sup>
- Temperature : -23°C to 200°C
- Speed : 3000 RPM
- Size Range : 18 to 200mm



### Main Advantages:

- High Performance, Balance
- Low Maintenance Cost
- Easy to install

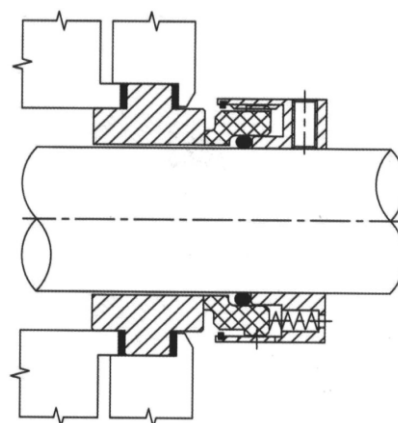
## Outside Mounted Reverse Balance - Type : AI 119

### M.O.C ( Material Of Construction):

- Seal : SS 316, SS 304,
- Seal ring : Carbon / Sic / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : PTFE Wedge / Viton / TTV / EPDM

### Limiting Parameters:

- Pressure : Upto 12kg/cm<sup>2</sup>
- Temperature : -25°C to 250°C
- Speed : upto 20 m/s
- Size Range : 14 to 200mm



### Main Advantages:

- Reverse Balance Single Seal
- Multiple Springs
- Independent of direction of rotation
- PTFE wedge as a Secondary

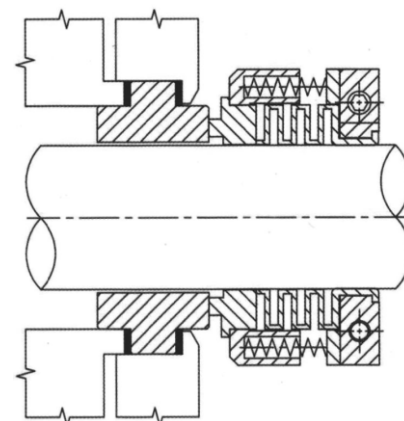
## Outside Mounted PTFE Bellow - Type : AI 105/A5

### M.O.C ( Material Of Construction):

- Seal : PTFE + GFT Composite + SiC  
Hast'C, SS316
- Seal ring : GFT/CFT/SiC
- Mating ring : Ceramic / SiC
- Secondary Seal : PTFE + GFT

### Limiting Parameters:

- Pressure : Upto 4.5kg/cm<sup>2</sup>
- Temperature : -45°C to 125°C
- Speed : 3000 RPM
- Size Range : 19 to 80mm



### Main Advantages:

- Outside mounted seal
- Easy to install
- Independent of direction of rotation

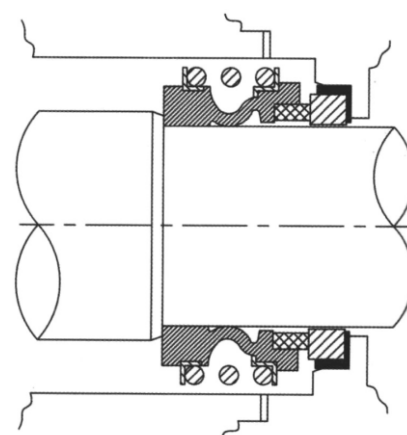
## Rubber Bellow - Type : AI 111/A60

### M.O.C ( Material Of Construction):

- Seal : SS 316, SS 304,
- Seal ring : Carbon / SiC / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : NBR / Viton / EPDM

### Limiting Parameters:

- Pressure : Upto 10kg/cm<sup>2</sup>
- Temperature : -20°C to 120°C
- Speed : Up to 10 m/s
- Size Range : 10 to 100mm



### Main Advantages:

- Unbalanced
- Long Elastomer Bellows
- Independent of direction of rotation

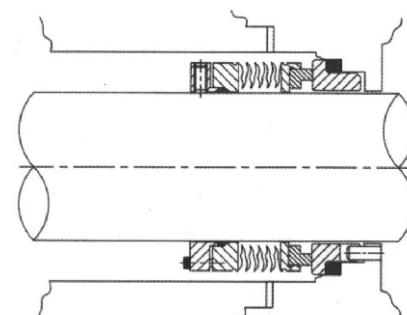
## Metal Bellow - Type : AI 124/A1

### M.O.C ( Material Of Construction):

- Seal : SS 316, CARP-42
- Seal ring : Carbon / SiC / TC
- Bellow : Hast-C, Am350, Inconel
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : Graphite

### Limiting Parameters:

- Pressure : 25kg/cm<sup>2</sup>
- Temperature : -20°C to 350°C
- Speed : Up to 20 m/s
- Size Range : 25 to 150mm



### Main Advantages:

- Inside mounted seal
- Independent of direction of rotation
- Thermic Fluid Applications

## Single Spring Conical - Type : AI 109/A1

### M.O.C ( Material Of Construction):

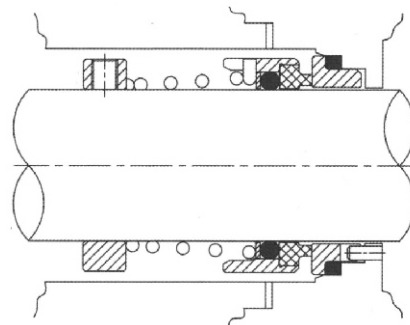
- Seal : SS 316, SS 304,
- Seal ring : Carbon / Sic / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : Viton / NBR / EPR

### Limiting Parameters:

- Pressure : Upto 9kg/cm<sup>2</sup>
- Temperature : -20°C to 180°C
- Speed : 3000 RPM
- Size Range : 12 to 80mm

### Main Advantages:

- Inside mounted • High performance
- Low maintenance cost
- Conical Spring Design



## Multi Spring - Type : AI 127

### M.O.C ( Material Of Construction):

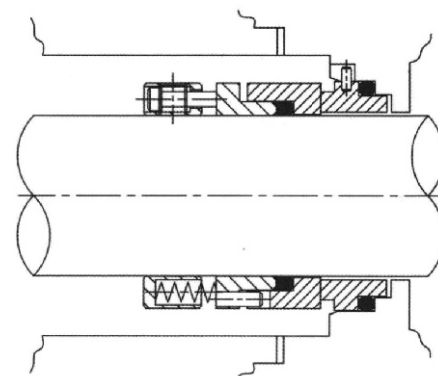
- Seal : SS 316, Hast'C, SS304
- Seal ring : SiC / TC
- Mating ring : TC / SiC / Ceramic / Carbon
- Secondary Seal : PTFE / Viton

### Limiting Parameters:

- Pressure : Upto 15kg/cm<sup>2</sup>
- Temperature : -45°C to 230°C
- Size Range : 10 to 100mm

### Main Advantages:

- Unbalanced Single Seal
- Multiple Springs
- Independent of direction of rotation



## Cartridge Seal - Type : AI 150

### M.O.C ( Material Of Construction):

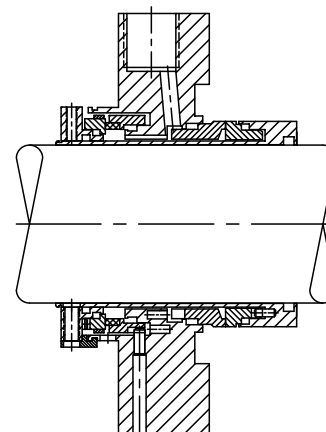
- Seal : SS 316, Alloy-20, Hast-C, SS304
- Seal ring : Carbon / Sic / TC
- Mating ring : TC / SiC / Ceramic
- Secondary Seal : PTFE / FEP / Viton / EPDM/TTV

### Limiting Parameters:

- Pressure : Full Vacuum to 10kg/cm<sup>2</sup>
- Temperature : -45°C to 200°C
- Speed : 3000 RPM
- Size Range : 25 to 100mm

### Main Advantages:

- Single acting Seals
- Suitable for Liquids containing Slurry
- Thermic Fluid Applications
- Independent of direction of rotation



## Reactor Seal - Type : AI 152/BJC

### M.O.C ( Material Of Construction):

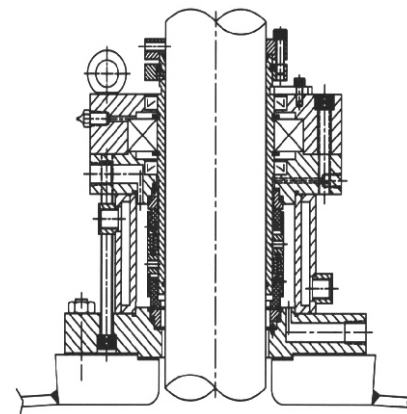
- Seal : SS 316, SS 304, MS
- Seal ring : Carbon / Sic / TC
- Mating ring : Carbon / Sic / TC
- Secondary Seal : PTFE / GFT / Viton

### Limiting Parameters:

- Pressure : Full Vacuum to 30kg/cm<sup>2</sup>
- Temperature : -45°C to 200°C
- Speed : 400 r.p.m (Max.)
- Size Range : 25 to 150mm

### Main Advantages:

- Double acting Back to Back Seals
- Cooling Jacket a standard feature
- Independent of direction of rotation
- Operated with Pressurized Barrier Fluid



## Rotary For Coolant

### Rotating Unions for continuous Coolant Service

#### Features :

- Single passage for coolant or MQL
- Closed seals for transfer line and similar applications
- Full-flow design has no obstructions to trap chips or debris
- Bearing-supported with threaded rotor for easy installation
- Deep Groove radial ball bearings for smooth operation
- Labyrinth system and large vents to protect ball bearings
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Anodized aluminum housing resists CORROSION



#### Operating Parameters:

- Media : Water-based Coolant  
: MQL (oil mist) up to 10 bar (145 psi)
- Filtration : ISO 4406 Class 17/15/12, 60 micron
- Max. Speed : 15,000 min < 1: 15000 rpm
- Max. Pressure : 105 bar : 1520 psi
- Max. Flow : 201/min : 5.3 gpm
- Max. Temp. : 160°F : 71°C

## Rotary Joint for Water- Type : AVI 102

### Seals for Water Service

#### Features

- Monoflow and duoflow design
- Self-supported rotating union
- Radial housing connection
- Balanced mechanical seal
- Keyed rotor seal
- Easy and quick replacement of sealing components (rotor seal, floating seal)
- Ball bearings lubricated for life
- For Poor water quality (E.L.S)
- 3 Vent holes
- Forged stainless steel housing
- Stainless • steel rotor
- Special options: threaded vent house



#### Operating Data :

- Maximum Water Pressure : 150 PSI : 10 bar
- Maximum Water Temperature : 200°F : >200°F

## Rotary Joint for Water- Type : AVI 104

### Seals for Water Service

#### Features :

- Monoflow and duoflow design
- Self-supported rotating union
- Radial housing connection
- Balanced mechanical seal
- 3 Vent holes
- Forged stainless steel housing
- Stainless steel rotor
- Special options: threaded vent house low torque design



#### Seal Combinations :

- Carbon Graphite/Bronze for water-standard
- Carbon Graphite/Ceramic for hot oil, hot water and saturated steam-Optional
- Multi-purpose applications.

#### Seal Combinations - E.L.S

- Tungsten Carbide/Ceramic for severe conditions (poor water quality), max temperature 200°F

## Hydraulic Unions - Type : AVI 119

### Deu-Plex Low Speed Air - Hydraulic Unions

#### Features :

- Duoflow design
- Self-supported rotating union
- Composite bearing
- Special seals
- Hardened sealing surface
- Aluminum housing
- Steel rotor



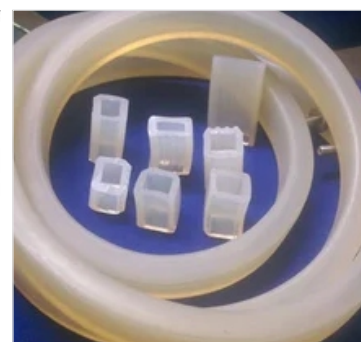
#### Operating Data

- |                              |         |         |
|------------------------------|---------|---------|
| • Maximum Air Pressure       | 150 PSI | 10 bar  |
| • Maximum Vacuum Pressure    | 28"     | 6.7 kPa |
| • Maximum Hydraulic Pressure | 3000PSi | 207 bar |
| • Maximum Speed              | 250 RPM | 250/min |
| • Maximum Temperature        | 250°F   | 120°C   |

#### Optional

- Tandem model ass triple - passage design

## Silicon Rubber Gasket For Pharma Equipment





Mfg.: Mechanical Seals, Rotary Joints, & Pump Spares

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