Hi-Tech Seal Pvt. Ltd.
AN ISO 9001:2008 CERTIFIED CO.

Mechanical Seals

The Experts for industrial Sealing technology
Introduction...

Hi-Tech Seal Pvt. Ltd. incorporated in the year 2002, is India's leading manufacturer of Mechanical seals. Our company pioneers in Designing, Manufacturing and Distribution of precision engineered Mechanical seals and sealing systems. We have set benchmarks on performance, cost and service in our line of products and services offered by us. Our philosophy while attending a seal requirement has been to develop and supply spares for seals giving good performance or develop alternative design to enhance seal performance.

For years, we as evolved leaders of engineered sealing solution provider, has sought to take sealing technology to new heights. We constantly update our technologies exceeding and surpassing customer expectations and industry standards. Seals are manufactured conforming to API and DIN standards. We are equipped with sufficient stock of spares which can be delivered ex-stock for all popular models working across the globe.

Our factory is located at Ankleshwar – INDIA on a 15,000 sq.ft. Area with well designed workshop / CNC machines, Quality Assurance equipment, Inventory (stores) with more than 15,000 components. We have a PAN India presence with 22 branch offices in all major locations catering to industries like, Bulk Drugs, Pharma, Herbal, Biotech, Chemicals, Dyes, Paper & Pulp, Food & Dairy, Beverages, Paint, Auto Mobile & White Goods, Paint Shops, Hydro Electric, Thermal, Atomic, Gas, Nuclear Power Plants, Veg Oil, Fatty Acid & Cosmetic Plants, Chloro-Alkali, Caustic, Chlorine, Fertilizers, Pesticides, Oil Refineries, Petro Chemicals, Textile, Polyester Plants, Leather Chemicals, Water & Sewage, Water Treatment, Desalination, Effluent Treatment, Refrigeration, Railways, Shipping & Submarine, Aluminum, Coal, Manganese, Iron & Mineral Extraction, Metal & Process Industries.


Special Seals have been developed to suit Alfa Laval, Fristam, Pharma Lab, BE, Heliege, KSB Movi Chrome, Grundfos, Ahlstrom, Sunds, Sundyne, Black Clawson, Ekato & Dietrich.
<table>
<thead>
<tr>
<th>Component Seals - Bellow Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HTS /open</strong></td>
</tr>
<tr>
<td>Inside Mounted, Balanced, Metal Formed Bellow</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 16 Kg/Sq. Cm (Max.) Temperature: -20 to 200°C Petrol &amp; Gen Chemicals, Light Slurries, Veg Oils, Hydrocarbons</td>
</tr>
<tr>
<td><strong>HTS /Close</strong></td>
</tr>
<tr>
<td>Inside Mounted, Balanced, Metal Formed Bellow With Non Dynamic Elastomer</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 20 Kg/Sq. Cm (Max.) Temperature: -23 to 200°C Petrol &amp; Gen Chemicals, Light Slurries, Veg Oils, Hydrocarbons</td>
</tr>
<tr>
<td><strong>HTS /M45</strong></td>
</tr>
<tr>
<td>Inside Mounted, Balanced, Metal Formed Bellow With Graphite Packing for high temperatures</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 20 Kg/Sq. Cm (Max.) Temperature: -23 to 350°C Petrol &amp; Gen Chemicals, Light Slurries, Veg Oils, Hydrocarbons</td>
</tr>
<tr>
<td><strong>HTS /M65</strong></td>
</tr>
<tr>
<td>Inside Mounted, Balanced, Metal Bellow Stationary With Graphite Packing for high temperatures &amp; vacuum appl.</td>
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<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 20 Kg/Sq. Cm (Max.) Temperature: -23 to 350°C Petrol &amp; Gen Chemicals, Light Slurries, Veg Oils, Hydrocarbons</td>
</tr>
<tr>
<td><strong>HTS /M46</strong></td>
</tr>
<tr>
<td>Inside Mounted, Balanced, Metal Bellow Integral Sleeve with Grafoil Packing for High Temperature Liquids, Thermic Fluid</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 20 Kg/Sq. Cm (Max.) Temperature: -23 to 350°C</td>
</tr>
<tr>
<td><strong>HTS /20M</strong></td>
</tr>
<tr>
<td>Outside Mounted, Reverse Balanced, Teflon Bellow</td>
</tr>
<tr>
<td>Size: 2mm to 150mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -20 to 100°C Corrosive Liquids, Hydro Chloric, Sulphuric, Nitric, Phosphoric Acids</td>
</tr>
<tr>
<td><strong>HTS /20R</strong></td>
</tr>
<tr>
<td>Outside Mounted, Reverse Balanced, Teflon Bellow Replaceable Face: Sic, Car</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -20 to 100°C Corrosive Liquids, Hydro Chloric, Sulphuric, Nitric, Phosphoric Acids</td>
</tr>
<tr>
<td><strong>HTS /20C</strong></td>
</tr>
<tr>
<td>Outside Mounted, Reverse Balanced, Teflon Bellow Replaceable Face: Sic</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -20 to 100°C Corrosive Liquids, Hydro Chloric, Sulphuric, Nitric, Phosphoric Acids</td>
</tr>
<tr>
<td><strong>HTS /20S</strong></td>
</tr>
<tr>
<td>Outside Mounted, Reverse Balanced, Teflon Bellow Replaceable Face: Sic</td>
</tr>
<tr>
<td>Size: 25mm to 100mm / 1&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -23 to 100°C Corrosive Liquids, Hydro Chloric, Sulphuric, Nitric, Phosphoric Acids</td>
</tr>
<tr>
<td><strong>HTS /open</strong></td>
</tr>
<tr>
<td>Inside Mounted, Rubber Bellow</td>
</tr>
<tr>
<td>Size: 3/8&quot; to 1&quot;</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -20 to 100°C Water, Oil, Domestic, Agri, Coolant Pumps.</td>
</tr>
<tr>
<td><strong>HTS /Close</strong></td>
</tr>
<tr>
<td>Inside Mounted, Rubber Bellow</td>
</tr>
<tr>
<td>Size: 06mm to 70mm</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -20 to 100°C Water, Oil, Domestic, Agri, Coolant Pumps.</td>
</tr>
<tr>
<td><strong>HTS /50U</strong></td>
</tr>
<tr>
<td>Inside Mounted, Rubber Bellow</td>
</tr>
<tr>
<td>Size: 12mm to 70mm / 0.5&quot; to 3&quot;</td>
</tr>
<tr>
<td>Pressure: 5 Kg/Sq.Cm (Max.) Temperature: -20 to 100°C Light Liquids, Water, Oil</td>
</tr>
<tr>
<td><strong>HTS /MG1</strong></td>
</tr>
<tr>
<td>Inside Mounted, Rubber Bellow</td>
</tr>
<tr>
<td>Size: 10mm to 100mm / 0.375&quot; to 4&quot;</td>
</tr>
<tr>
<td>Pressure: 10 Kg/Sq. Cm (Max.) Temperature: -20 to 100°C Light Liquids, Water, Oil, Weakly Corrosive Liquids.</td>
</tr>
<tr>
<td><strong>HTS /53U</strong></td>
</tr>
<tr>
<td>Inside Mounted, Rubber Bellow</td>
</tr>
<tr>
<td>Size: 14mm to 100mm</td>
</tr>
<tr>
<td>Pressure: 16 Kg/Sq. Cm (Max.) Temperature: -20 to 100°C Light Liquids, Water, Oil, Weakly Corrosive Liquids.</td>
</tr>
<tr>
<td><strong>HTS /12,13</strong></td>
</tr>
<tr>
<td>Inside Mounted, Rubber Bellow</td>
</tr>
<tr>
<td>Size: 14mm to 100mm</td>
</tr>
<tr>
<td>Pressure: 16 Kg/Sq. Cm (Max.) Temperature: -20 to 100°C Light Liquids, Water, Oil, Weakly Corrosive Liquids.</td>
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</tbody>
</table>
COMPONENT SEALS - SINGLE PUSHER

**SINGLE INSIDE BALANCED**

- **HTS /82B**
  - Multi Spring, Inside Mounted, Balanced
  - Size: 20mm to 150mm / 0.75" to 6'
  - Pressure: 40 Kg/Sq.Cm (Max.)
  - Temperature: -23 to 200° C
  - Petro Chemicals, General Chemicals, Clear Liquids, Light HydroCarbons.

- **HTS /82W**
  - Multi Spring, Inside Mounted, Balanced
  - Size: 16mm to 115mm / 0.375" to 4.500'
  - Pressure: 40 Kg/Sq.Cm (Max.) Temperature: -23 to 200° C
  - Petro Chemicals, General Chemicals, Clear Liquids, Light HydroCarbons.

- **HTS /80IB**
  - Multi Spring, Inside Mounted, Balanced
  - Size: 14mm to 200mm / 0.375" to 4.500'
  - Pressure: 40 Kg/Sq.Cm (Max.) Temperature: -50 to 200° C
  - Petro Chemicals, General Chemicals, Clear Liquids, Light HydroCarbons.

- **HTS /75U**
  - Spring, Out of Contact, Inside Mounted, Balanced Hydraulically Balanced Seal Face
  - Size: 20mm to 100mm / 0.75" to 4'
  - Pressure: 20 Kg/Sq.Cm (Max.) Temperature: -23 to 200° C
  - Petro Chemicals, General Chemicals, Light HydroCarbons.

- **HTS /80U**
  - Wave Spring, Inside Mounted, Balanced
  - Size: 18mm to 100mm / 0.75" to 4'
  - Pressure: 20 Kg/Sq.Cm (Max.) Temperature: -50 to 200° C
  - Petro Chemicals, General Chemicals, Light HydroCarbons.

- **HTS /80B**
  - Multi Spring, Inside Mounted, Balanced
  - Size: 18mm to 100mm Pressure: 22 Kg/Sq.Cm (Max.) Temperature: -50 to 200° C

- **HTS /80X**
  - Multi Spring, Inside Mounted, Balanced to suit DIN Cavity
  - Size: 18mm to 100mm Pressure: 16 Kg/Sq.Cm (Max.) Vacuum Temperature: -20 to 160° C
  - Water, Solvents, General Chemicals, Clear Liquids.

- **HTS /87U**
  - Multi Spring, Outside Mounted, Reverse Balanced
  - Size: 20mm to 100mm / 0.75" to 4'
  - Pressure: 10 Kg/Sq.Cm (Max.) - Vacuum Temperature: -23 to 150° C
  - Black Liquor, Salt Slurries, Corrosive Chemicals.

- **HTS /87W**
  - Single Spring, Inside Mounted, Unbalanced
  - Size: 20mm to 100mm / 0.75" to 4'
  - Pressure: 10 Kg/Sq.Cm (Max.) Temperature: -23 to 200° C
  - Petro Chemicals, General Chemicals, Light Slurries, Vegetables Oils.

- **HTS /2U**
  - Conical Spring, Inside Mounted, Unbalanced
  - Size: 10mm to 40mm
  - Pressure: 8 Kg/Sq.Cm (Max.) Temperature: -20 to 150° C
  - Water, Solvents, General Chemicals, Clear Liquids.

- **HTS /2W**
  - Conical Spring, Inside Mounted, Unbalanced
  - Size: 15mm to 75mm / 0.625" to 3'
  - Pressure: 10 Kg/Sq.Cm (Max.) Temperature: -23 to 200° C
  - Water Solvents, General Chemicals, Clear Liquids.

- **HTS /80B**
  - Multi Spring, Inside Mounted, Unbalanced
  - Size: 20mm to 150mm / 0.75" to 6'
  - Pressure: 10 Kg/Sq.Cm (Max.) Temperature: -23 to 200° C
  - Petro Chemicals, General Chemicals, Clear Liquids, Light HydroCarbons.

- **HTS /80A**
  - Multi Spring, Inside Mounted, Unbalanced
  - Size: 16mm to 115mm / 0.375" to 4.500'
  - Pressure: 10 Kg/Sq.Cm (Max.) Temperature: -23 to 200° C
  - Water Solvents, General Chemicals, Clear Liquids.

- **HTS /80U**
  - Wave Spring, Inside Mounted, Unbalanced
  - Size: 14mm to 200mm
  - Pressure: 10 Kg/Sq.Cm (Max.) Temperature: -50 to 200° C
  - Water Solvents, General Chemicals, Clear Liquids.

- **HTS /M70W-1**
  - Wave Spring, Inside Mounted, Unbalanced
  - Size: 16mm to 75mm / 1.000" to 3.000'
  - Pressure: 8 Kg/Sq.Cm (Max.) Temperature: -20 to 150° C
  - Water, Oil, Solvents, Clear Liquids.
STATIONARY FACES FOR COMPONENT SEALS

**DIN CAVITY**
Stationary Seat materials include Ni-Resist, Tungsten Carbide, Ceramic, Silicon Carbide, Crome Oxide Coated, Carbon etc.

- DIN-Long
- DIN-Short
- BG2
- BG6
- BG909
- BG9
- BG16
- BG46
- BG60
- BG606
- JBC
- JBD
- JB0
- JBP

**NON-DIN CAVITY**
Stationary Seat materials include Ni-Resist, Tungsten Carbide, Ceramic, Silicon Carbide, Crome Oxide Coated, Carbon etc.

- CS
- DA
- T-Type
- Cool Seat
- Insert
- JN
- BG4
- BG13
- BG50
- JA
- JP
- JPL/JPP
- JV
- JW
- JWM

**SPECIAL PUMP SEALS**

**ALFA LAVAL**

- ALC-2
- EM
- FM
- GM
- LKH

**PHARMA LAB**

- I D M C

**HIELGE**

- 18, 24, 32, 38mm

**BE**

- 28, 38mm
- 18, 24, 28, 32mm

**GRUNDFOS**

- CR, CRI, CRN-1, 3, & 5
- CR-2, 4, 8, & 16
- CR-32, 45, 64 & 90
- CHI-2, 4, 8 & 12
- NK-80-160
- NK-200-400

**FRISTAM**

- SEV & SE1 PUMP
- SINGLE
- DOUBLE
**CARTRIDGE SEALS**

**HTS /90 B 31**
- Cartridge, Inside Mounted, Multi Spring, Balanced
- Without Flushing Plan
- Size: 25mm to 100mm / 1.000" to 4.000"
- Pressure: 25 kg/Sq.Cm (Max.)
- Temperature: -40 to 220° C
- Water, Chemical, Power, Pharma, Light HydroCarbons.

**HTS /90 B 32**
- Cartridge, Inside Mounted, Multi Spring, Balanced
- With Flushing Plan 11
- Size: 25mm to 100mm / 1.000" to 4.000"
- Pressure: 25 kg/Sq.Cm (Max.)
- Temperature: -40 to 220° C
- Water, Chemical, Power, Pharma, Light HydroCarbons.

**HTS /90 B 335**
- Cartridge, Inside Mounted, Multi Spring, Balanced
- With Flushing Plan 11, 62
- Size: 25mm to 100mm / 1.000" to 4.000"
- Pressure: 25 kg/Sq.Cm (Max.)
- Temperature: -40 to 220° C
- Water, Chemical, Power, Pharma.

**HTS /90 B 345**
- Cartridge, Inside Mounted, Multi Spring, Double Seal with Dual Balanced, with Plan 52 / 54
- Size: 25mm to 100mm / 1.000" to 4.000"
- Pressure: 25 kg/Sq.Cm (Max.)
- Temperature: -40 to 220° C
- Water, Chemical, Power, Pharma.

**HTS /90 B 38**
- Cartridge, Inside Mounted, Multi Spring, Balanced
- With Flushing Plan 11
- Size: 25mm to 100mm / 1.000" to 4.000"
- Pressure: 25 kg/Sq.Cm (Max.)
- Temperature: -40 to 220° C
- Water, Chemical, Power, Pharma.

**HTS /90 B 36**
- Cartridge, Inside Mounted, Multi Spring, Double Seal with Dual Balanced, with Plan 52 / 54
- Size: 25mm to 100mm / 1.000" to 4.000"
- Pressure: 25 kg/Sq.Cm (Max.)
- Temperature: -40 to 220° C
- Water, Chemical, Power, Pharma.

**HTS /90 B 39**
- Cartridge, Inside Mounted, Multi Spring, Balanced
- Used for High Pressure Application
- Size: 1.500" to 7.000"
- Pressure: 103 kg/Sq.Cm (Max.)
- Temperature: -40 to 204° C
- Boiler Feed Water Application.

**HTS /90 B 35**
- Cartridge, Inside Mounted, Multi Spring, Balanced
- Slurry Seal
- Size: 28mm to 152mm / 1.125" to 6.000"
- Pressure: 20 kg/Sq.Cm (Max.)
- Temperature: -40 to 177° C

**HTS /90 B 35D**
- Cartridge, Double Back to Back, Multi Spring, Balanced Slurry Seal
- Size: 28mm to 152mm / 1.125" to 6.000"
- Pressure: 20 kg/Sq.Cm (Max.)
- Temperature: -40 to 177° C
**API Plan 21**

NOTE
Recirculation From Pump Case Through Orifice and Cooler to Seal Connections ‘1’ For Flushing Inlet.

**API Plan 23**

NOTE
Recirculation From Seal with Pumping Ring Through Cooler and BACK to Seal Connection ‘1’ & ‘2’ for Circulation Inlet & Outlet

**API Plan 31**

NOTE
Recirculation From Pump case Through clone separator Delivering Clean Fluid Through Cooler to Seal & Fluid with Solids Back to Pump Suction Connection ‘1’ For Flushing Inlet
**API Plan 32**

**NOTE**
Connection ‘1’ For Flushing Inlet
External Liquid Mixes in the Pump Media
Injection to seal From External Source of Clean Liquid
The Purchase Will Specify The Fluid Characteristics and
The Vendor Shall Specify Volume Pressure &
Temperature Required

**API Plan 41**

**NOTE**
Connection ‘1’ For Flushing Inlet
Recirculation From Pump Case Through Cyclone
Separator Delivering Clean Fluid Through Cooler to Seal &
Fluid with Solids Back to Pump Suction

**API Plan 52**

**NOTE**
Connections ‘1’ & ‘2’ For Flushing inlet & Outlet for Out
Board Seal Non Pressurized Thermosyphon
**API Plan 53**

NOTE
Connection '1' & '2' For Flushing Inlet & Outlet
For Outboard Seal

**API Plan 54**

NOTE
Connection '1' & '2' For Flushing Inlet & Outlet

**API Plan 61**

NOTE
Connection '1' & '2' For Vent & Dran

**API Plan 61**

NOTE
Connection '1' & '2' For Quenching Inlet & Outlet
API Plan 1

Note
Integral (Internal) Connection for Flushing Exists in the Stuffing Box
Flushing Connection need not be Provided in the Gland Plate

API Plan 2

Note
Dead Ended Seal Box With No Circulation of Flushed Fluid, Water Cooled
Stuffing Box Jacket & Throat Bushing Required When Specified
Connections ‘1’ & ‘2’ Plugged for Possible Future Circulation

API Plan 11

Note
Recirculation From Pump Case Though Orifice To Seal
Connection ‘1’ For Flushing Inlet

API Plan 13

NOTE
Recirculation From Seal Chamber Through Orifice &
Back to Pump Suction
Connections ‘1’ For Flushing Liquid Circulation
CARTRIDGE SEALS

Inside Mounted, Single Spring, Balanced Slurry Seal
Size: 25mm to 125mm / 1.000' to 5.000'
Pressure: 15 kg/Sq.Cm (Max.)
Temperature: -40 to 120° C
Paper & Pulp, Power Plant.

Double Balanced, Dual Cartridge Slurry Seal
Size: 20mm to 125mm / 1.000' to 5.000'
Pressure: 15 kg/Sq.Cm (Max.)
Temperature: -40 to 180° C
Paper & Pulp, Power Plant, Board Mill.

Double Balanced, Dual Cartridge Slurry Seal
Size: 25mm to 125mm / 1.000' to 5.000'
Pressure: 20 kg/Sq.Cm (Max.)
Temperature: -40 to 120° C
Paper & Pulp, Power Plant, Board Mill.

Double Balanced, Dual Cartridge Slurry Seal
Size: 25mm to 125mm / 1.000' to 5.000'
Pressure: 20 kg/Sq.Cm (Max.)
Temperature: -40 to 180° C
Paper & Pulp, Power Plant, Board Mill.

Double Balanced Dual Cartridge Slurry Seal
Size: 25mm to 125mm / 1.000' to 5.000'
Pressure: 20 kg/Sq.Cm (Max.)
Temperature: -40 to 200° C
Paper & Pulp, Power Plant, Board Mill.

SPECIAL SEALS

MODULAR
Modular Contacting Seal for Agitators.
Size: 50 to 250mm
Pressure: Vac. to 35 Bar.
Temperature: -40 to 200° C

MODULAR
Modular Non-Contacting Lift Off Seal for Agitators.
Size: 50 to 250mm
Pressure: Vac. to 6.7 Bar.
Temperature: -40 to 200° C

ANF SEALS
Seal for Agitated Nutsche Filter (ANF)
Size: 60 to 250mm
Pressure: Vac. to 6.7 Bar.
Temperature: -40 to 200° C

BOTTOM ENTRY DILUTOR
Bottom Entry Reactor Seal (RMRD)
Filter (ANF)
Size: 60 to 250mm
Pressure: Vac. to 35 Bar.
Temperature: -40 to 200° C

SEALS FOR VOTATOR / PERFECTOR

Seal for Votator / Perfector
Size: 45 to 150mm
Pressure: Vac. to 40.0 Bar.
Temperature: -40 to 200° C
Vegetable Oil Plant

Seal for Votator / Perfector
Size: 45 to 150mm
Pressure: Vac. to 40.0 Bar.
Temperature: -40 to 200° C
Vegetable Oil Plant
**API SEALS**

**TYPE - A ARRANGEMENT - 1**

Balanced Single Inside Mounted, Cartridge Design
Size: 20mm to 110mm / 0.750" to 4.250"
Pressure: Vacuum to 42.0 Bar (Max.)
Temperature: -40 to 176°C
Refinery, Petrochemical, Power Plant

**TYPE - C ARRANGEMENT - 1**

Balanced Single Inside Mounted, Cartridge Flexible Element Stationary With Graphite Packing
Size: 20mm to 110mm / 0.750" to 4.250"
Pressure: Vacuum to 20.0 Bar (Max.)
Temperature: -40 to 400°C
Refinery, Petrochemical, Power Plant, Thermic Fluid.

**TYPE - A ARRANGEMENT - 2**

Balanced Dual Unpressurised Cartridge Design
Size: 20mm to 110mm / 0.750" to 4.250"
Pressure: Vacuum to 42.0 Bar (Max.)
Temperature: -40 to 176°C
Refinery, Petrochemical, Power Plant

**TYPE - C ARRANGEMENT - 2**

Balanced Dual Unpressurised Cartridge
Size: 20mm to 110mm / 0.750" to 4.250"
Pressure: Vacuum to 20.0 Bar (Max.)
Temperature: -40 to 400°C
Refinery, Petrochemical, Power Plant, Thermic Fluid.

**TYPE - A ARRANGEMENT - 3**

Balanced Dual Pressurised Cartridge Design
Size: 20mm to 110mm / 0.750" to 4.250"
Pressure: Vacuum to 42.0 Bar (Max.)
Temperature: -40 to 176°C
Refinery, Petrochemical, Power Plant

**TYPE - C ARRANGEMENT - 3**

Balanced Dual Pressurised Cartridge
Size: 20mm to 110mm / 0.750" to 4.250"
Pressure: Vacuum to 20.0 Bar (Max.)
Temperature: -40 to 400°C
Refinery, Petrochemical, Power Plant, Thermic Fluid.

**SUNDYNE LMV & LMC - 311, 322**

**SINGLE SEAL**
Size: 1.250" to 1.500"
Pressure: Upto 53.0 Bar
Temperature: -40 to 204°C
Speed: Upto 18,000 rpm

**DUAL UNPRESSURISED SEAL**
Size: 1.250" & 1.500"
Pressure: Upto 53.0 Bar
Temperature: -40 to 204°C
Speed: Upto 18,000 rpm

**DUAL PRESSURISED SEAL**
Size: 1.250" & 1.500"
Pressure: Upto 53.0 Bar
Temperature: -40 to 204°C
Speed: Upto 18,000 rpm

**DOUBLE SEAL**
Size: 0.375
Pressure: Upto 16.0 Bar
Temperature: -40 to 204°C
Speed: Upto 18,000 rpm
**SEALS FOR THERMAL POWER PLANTS**

**BOILER FEED PUMPS**

Mechanical Seals for BHEL 150 KHI (60MW), 200 KHI (110MW), FK 6D 30 (210/250MW), FK 4E 36 (500MW) Seals also available for KSB HDA, HGC, HGM & Sulzer HPT Models

**BOOSTER PUMPS**

**CONDENSATE EXTRACTION PUMPS**

Mechanical Seals for BHEL 150 CJAV (60MW), 150 CJJV (110MW), EN 5J 40 (210/250MW) & EN 7J 32 (210/250MW) & EN 7J 40 (500MW).

**POWER PLANT PROCESS DIAGRAM**

Diagram showing a power plant process with components such as Steam Turbine, Generator, Condenser, Low Pressure Preheater, Feedwater Tank, Boiler Feed Pump, High Pressure Preheater, Circulation Water Pump, and Condensate Extraction Pump.