





We Measuere Our Quality Standard Against The Result Achieved

www.maxflowind.com

About Our Company



MAX FLOW INDUSTRIES was established in 2005 by Mr. J.R. Salema. Who had a wide experience in Industrial PUMPS & SEALS manufacturing. This Gujarat based company has in depth knowledge of Customer requirements and manufacture a large range of PUMPS & SEALS for different kinds of applications and for service back up. Over the years, the company has expanded its footprint to other parts of the globe and has well-known companies from the Pharma, Food, Textile, Steel, Power and other industries in Asia, as customers.



OUR VISION

To acquire and maintain global leadership position in "Chemical Process Pump & Mechanical Shaft Seal" with a global perspective by exceeding customer's expectation in quality & service. To continuously create new opportunities for growth in our strategic business. To be among the top most admired companies to work for



OUR MISSION

To delight our customer's by consistently manufacturing world-class products of outstanding quality that give our customer a competitive advantage through superior products and value. So we can make every customer smile. To encourage people's ownership, empowerment and working under team structure.



OUR VALUES

- Honesty, integrity and
- Professionalism
- Customer's satisfaction and delight
- Superior quality of performance
- Passionate about excellence
- Hard work, dedication and achievement
- To provide a safe workplace and promote healthy work habits.



- To honor all promises and commitments
- To deliver results
- · To be welcomed back



BRAND PROMISES

The promise of performance reinforced through experience as a responsible manufacturer, we need to ensure that we adhere to our commitment to market our brand responsibly.



OUR OBJECTIVES

- To always achieve our customer's desired results
- To provide outside insight and information
- To be valued business partners for our customer's

PROCESS PUMPS



Chemical Pump

MFI-STS Series

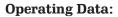
End Suction, Horizontal, Centrifugal Coupled PumpsWith Semi Open Impeller

Application:

Organic/Inorganic chemical, volatile liquids, corrosive chemicals, caustic process, effluent, filter press, slurry application.

Pharmaceutical, dyes, textiles, kerosene, diesel and other solvents. ETP, STP & waste water treatment plant, fertilizers, cement and steel industries.

For pumping chemicals, with solids in suspension polluted liquids. Widely used for public and civil engineering. Paper and pulp industries.



Capacity : Up to 80 M3/hr. Head : Up to 62 Mtr. Discharge Size : 25 mm to 150 mm

Temperature : 350°C

Speed : Up to 3500 rpm Pressure : Up to 4.8 kg/cm2

M.O.C : C. I., C. S., SS-304 / 304L, SS316 / 316L, 904L,

Alloy-20, CD4MCU, Hastalloy B & C, etc..



MFI-HPSP Series

Single Stage End Suction Back Pull-Out Type Centrifugal Pumps

Application:

Hot and cold water circulation, cooling water circulation.

Drip irrigation, water supply and building services.

Thermic fluid, jet, dyeing, volatile fluids.

Condensate handing, fire fighting system, environmental.

Engineering, marine, refrigeration and cooling tower installtion etc...

Chemical, petrochemicals, refineries, sugar, paper, laminates. Industries, rubber, handling of hydrocarbons, organic and inorganic chemicals, condensate, d.m. water, food industries, salt, textiles Industries

power stations and industries such as pulp, fertilizer, etc...

Corrsive and abrasive process chemicals like acids, alkalis, solvents, slurries, hydrocarbons, crystallizing liquids, nitric, ammonia, phosphate, chemical effluents, etc...

Operating Data:

Capacity : Up to 2200 M3/hr. Head : Up to 150 Mtr. Discharge Size : 25 mm to 300 mm

Temperature : 350°C

Speed : Up to 3500 rpm
Pressure : Up to 15 kg/cm2

M.O.C : C. I., C. S., SS-304 / 304L, Ss316

316L, 904L, Alloy-20, CD4MCU, Hastalloy B & C, etc..







Polypropylene Pump

MFI-PLP Series

Corrosion Resistant Polypropylene Pumps

Application:

Water treatment plant, effluent treatment plant, elecro plating, picking & steel rolling mills.

Excellent for transfer and loading- unloading like HCL, Sulphuric Acid/Alkali, Caustic Liquid.

Scrubbing of corrosive gases like NH3, CO2, SO3, SO2, SO2, I2, F2, Br2, Cl2, etc. For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, etc...

Ideal for circulation of chemical in metal finishing industry.

Natural choice for pickling line & scrubber in steel plants.

High capacity transfer pump, filter press for dyes & chemicals, descaling, oil & Other fuels.



Operating Data:

Capacity : Up to 50 M3/hr
Head : Up to 45 Mtr.
Discharge Size : 25 mm to 100 mm
Temperature : Up to 80°C

Speed : Up to 3500 rpm
Pressure : Up to 6.5 kg/cm2
M.O.C : PP, UHMWPE

PVDF Pump

MFI-PVDF Series

Pvdf Centrifugal Process Pumps

Application:

Water treatment plant, effluent treatment plant, elecro plating, picking & steel rolling mills.

Excellent for transfer and loading - unloading like HCL, Sulphuric Acid/Alkali, Caustic Liquid.

Scrubbing of corrosive gases like NH3, CO2, SO3, SO2, SO2, I2, F2, Br2, Cl2, etc. For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, etc...

Ideal for circulation of chemical in metal finishing industry.

Natural choice for pickling line & scrubber in steel plants.

High capacity transfer pump, filter press for dyes & chemicals, descaling oil & other fuels.

Pesticide / Insecticide Plants, Chlorine Plants.

Pharmaceutical and bulk Drug Plants.

Operating Data:

Capacity : Up to 250 M3/hr Head : Up to 90 Mtr. Discharge Size : 25 mm to 100 mm

Temperature : Max. 420°C
Speed : Up to 3500 rpm
Pressure : Up to 9 kg/cm2

M.O.C : 100% SOLID PVDF & PVDF LINING





Teflon lined Pump

MFI-TFLP Series

Teflon Lined Centrifugal Process Pump

Application:

Water treatment plant, effluent treatment plant, elecro plating, picking & steel rolling mills.

Excellent for transfer and loading - unloading like HCL, Sulphuric Acid/Alkali, Caustic Liquid.

Scrubbing of corrosive gases like NH3, CO2, SO3, SO2, SO2, L2, F2, BR2, CL2, etc. For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, etc...

Ideal for circulation of chemical in metal finishing industry.

Natural choice for picking line & scrubber in steel plants.

High capacity transfer pump, filter press for dyes & chemicals, descaling oil & other fuels.

Pesticide / Insecticide Plants, Chlorine Plants.

Pharmaceutical and bulk Drug Plants.



Operating Data:

Capacity : Up to 250 M3/hr

Head : Up to 90 Mtr.

Discharge Size : 25 mm to 100 mm

Temperature : Max. 200°C

Speed : Up to 3500 rpm

Pressure : Up to 9 kg/cm2

M.O.C : PFA / FEP

Monoblock Pump

MFI-MNBK Series

Horizontal Centrifugal Monoblock Pumps

Application:

Dewatering, mud, marine, effluent, hotel, oils, spirits, swimming pools, gas oils.

Vessels, industrial-pumping petroleum products, chemical.

Filter press feeding, ETP, STP, waste water treatment plant, sewage pumping.

Mobile machinery – cooling water for marine engines and shovels.

Industries like chemical, pharmaceuticals, food, cement, paper, sugar, salt, steel an other

for liquid cargo from freighter, barges.

Gardening and irrigation.

Agriculture, farms, civil application.

Industries for clear water handling, cooling tower.

Operating Data:

Capacity : Up to 75 m3/ hr
Head : Up to 48 Mtr.
Suc. Head : Up to 5 Mtr.
Discharge Size : 25 mm to 100 mm
Solid Size : Up to 25 mm
Temperature : Up to 110°C
Speed : Up to 3500 rpm
Pressure : Up to 4.8 kg/cm2

M.O.C : C.I., C.S., SS-304 / 304L, SS316 / 316L, Polypropylene,

PVDF, Alloy-20, CD4MCU, Hastalloy B & C, etc...





Vertical Pump

MFI-VRTL Series

Vertical Sealess Glandless Long Shaft Sump Pumps

Application:

The "MFI" sump pump is suitable for handling thin, clean or slightly contaminated. liquids, such as water treatment plant, effluent treatment plant, electro plating, picking & steel rolling mills, cleaning products, chemicals and hydrocarbons. Sulphuric Acid application, acid transfer, aquariums, chemical processing, Chloralkali, General Processing Industry, Light slurries, organic Chemicals, Polymers, Petrochemical Processing, Slurries, Solvents, Waste Processing. Vessels, industrial-pumping petroleum products, chemical. Excellent for transfer and loading unloading like HCL, Sulphuric Acid/Alkai, Caustic Liquid.

Scrubbing of corrosive gases like NH3, CO2, SO3, SO2, SO2, I2, F2, Br2, Cl2, etc. For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, etc...

Ideal for circulation of chemical in metal finishing industry.

Natural choice for picking line & scrubber in steel plants.

High capacity transfer pump, filter press for dyes & chemicals, descaling, oil Pesticide / Insecticide Plants, Chlorine Plants.

Pharmaceutical and bulk Drug Plants.



Operating Data:

Capacity : Up to 325 m3/hr Head : Up to 60 Mtr. Discharge Size : 25 mm to 125 mm

Temperature : 60°C

Pump Length : Up to 4 Mtr.

Speed : Up to 3500 rpm

Pressure : Up to 6 kg/cm2

M.O.C : C.I, C.S., SS-304 / 304L, SS316 / 316L,

Polypropylene, PVDF, Alloy-20, CD4MCU, Hastalloy B & C, etc...

Advantage:

No. 1 Choice for effluent treatment plants since are no mechanical seals / glands.

Can run dry due to absence of shaft seals.

Few parts facilities maintenance.



Self Priming Pump

MFI-SLFP Series

Single Stage Horizontal, Non-Clog Self Priming Pumps

Application:

The "MFI" pump is suitable for handling thin, clean or slightly contaminated liquids, such as water treatment plant, effluent treatment plant, electro plating, picking & steel rolling mills, cleaning products, chemicals and hydrocarbons.

Sulphuric Acid application, acid transfer, aquariums, chemical processing, Chloralkali, General Processing Industry, Light slurries, organic Chemicals, Polymers, Petrochemical Processing, Slurries, Solvents, Waste Processing. Vessels, industrial-pumping petroleum products, chemical.

Excellent for transfer and loading - unloading like HCL, Sulphuric Acid/Alkai, Caustic Liquid.

Scrubbing of corrosive gases like NH3, CO2, SO3, SO2, SO2, I2, F2, Br2, Cl2, etc.

For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, etc...

Ideal for circulation of chemical in metal finishing industry.

Natural choice for pickling line & scrubber in steel plants.

High capacity transfer pump, filter press for dyes & chemicals, descaling, oil



Operating Data:

Capacity : Up to 450 M3/hr. Head : Up to 70 Mtr. Suc. Head : Up to 5 Mtr.

Discharge Size : 25 mm to 100 mm

Solid Size : Up to 50 mm

Temperature : Up to 300°C

Speed : Up to 3500 rpm

Pressure : Up to 5.5 kg/cm2 M.O.C : C. I. , C. S. , SS-304 / 304L, SS316 /

0.401 D.1 1 DVDE

316L, Polypropylene, PVDF,

Alloy-20, CD4MCU, Hastalloy B & C, etc..

The solution for suction left application:

"MFI" Priming Chamber" can take suction left of 3 meter with volume of 20-60 liter.

Priming Chamber are available for all M.O.C. as per customer requirement.



Progressive Cavity Pump

MFI-SCRW Series

Progressive Cavity Screw Pumps

Main Design Features:

Materials of construction, available in cast iron or stainless steel, with a choice of rotor and stator materials to suit individual application e.g. hard chrome plated rotor or natural stator.

Robust drives, specially selected drives and gearboxes for longer life. Options include electric motor drive units supplied as overhead vee belt driven. Direct-coupled or variable speed drives with mechanical variable speed or frequency inverter

Low running speed, reduced wear for a longer working pump life which extends the periods between routine maintenance, important in abrasive application.



Effluent treatment Cosmetics & medicines
Pulp & paper Sweets & confectionaries

Sugar & distilleries Dairy

Chemical & petrochemicals.

Paint & varnishes

Ceramics & insulator Fruits & vegetable processing

Starch industries Mining

Beverage industry

Operating Data:

Capacity : Up to 150 m3/hr

Head : Up to 30 kg/cm2

Discharge Size : 25 mm to 150 mm

Temperature : Max. 120°C

Speed : Up to 600 mm

Viscosity : Up to 1,00,000 CST

Solid Hand. Size : Max. 25 mm

M.O.C : C.I., WCB, SS-304, SS 304L, SS 316, SS 316L,

Alloy - 20, CD4MCU, SS410, Tool Steel etc...

Stator : Natural, nitrile, Neoprene, EPDM, Hypalon,

Viton, Food grade & Special Quality Rubber.





Magnetic Pump

MFI-MGNT Series

Seal Less Magnetic Driven Pumps

Application:

Pilot plants, Galvanizing, Anodizing, Plating Plants, Water treatment plants.

Coolant pumping for laser systems & and machine tools.

Etching machines, Metal finishing machines, Gas analysers, Spark errosion machines. X-ray photo processors, Color photo processors, Ultra sonic cleaners, Medical equipments.

Solar heating systems ,I.C. photo engraving machines, Display devices, TV tube processing.

Dairies, Soft drinks Bevarages, Pure water plant, Domestic Aquariem. General laboratories, Silver recovery systems, Water processors, ice makers.



Operation:

The centrifugal pump is driven by a pair of magnet which are incorporated in the impeller and motor shaft respectively. The sealess pump structure elliminates shaft seals such as conventional mechanical seals, because the pump chamber is shielded the casing and the impeller is operated by magnet. The combine couplig torque of the drive magnet and impeller magnet drives sufficient driving power against the motor torque .

Advantage:

Max Flow pump make leakproof without Mechanical seal and gland packing. Light weight, Portable.
Suitable for 0 to 80 deg temp.

Rotary Gear Pump

MFI-GRP Series

Multi Purpose Rotary Gear Pumps With Double Helical Gears

Application:

To deliver a variety of light and viscous liquids such as oil, fats, coal tar, paint, molasses.

Highly viscous or semi viscous liquids like ammonia, bleaches, coaltar, dyes, fruits juice, gasoline, glycerin, glue, grease.

Paints, soap solution etc...

Operation:

The centrifugal pump is driven by a pair of magnet which are incorporate in the impeller and motor shaft respectively. The sealess pump structure elliminates shaft seals such as conventional mechanical seals, because the pump chamber is shielded the casing and the impeller is operated by magnet. The combine couplig torque of the drive magnet and impeller magnet drives sufficient driving power against the motor torque .

Operating Data:

Capacity : Up to 200 m3/hr

Head : Up to 120 Mtr.

Discharge Size : 12 mm to 200 mm

Temperature : Up to 250°C

Speed : Up to 1500 rpm

Pressure : Up to 12 kg/cm2

M.O.C : C. I. , C. S. , SS-304 / 304L, SS316 /316L, Alloy-20, CD4MCU, Hastalloy B & C, etc.



MECHANICAL SEALS



Conical Spring Seal

Seal Type: MFI-CON 708

The Series 708 is a single conical unbalance mechanical seal. These type of seals are dependent of shaft direction of rotation. Clockwise rotating Shaft Required Right Handed Spring & Anticlockwise rotating Shaft Required Left Handed Spring. the conical helical spring should be pushed on the shaft with a twisting motionin the sense of the spring unwinding.

The Rotating Shaft transmit the torque to the spring. This seal are easy to install.



Product Features:

Dependent in the Direction of Rotation

Unbalanced

Internally Mounted

Applications:

Water Pumps

Chemical Process pumps

Petroleum Refinery

Material of Construction:

Seal body : AISI 304, AISI 316

Face Material : Carbon, Silicon Carbide, Ceramic (99.5%), Tungsten Carbide

Elastomers : Viton, EPDM, Nitrile, Neuprene, Aflas

Operating Limits:

Pressure : Upto 08 Bar Temperature : -20° C to $+200^{\circ}$ C Shaft Dia : 10mm to 100mm

Single Spring Seal

Seal Type: MFI-SIN 704

The Series 704 is bidirectional single spring Unbalance mechanical seal. This series of mechanical seal are design for the dirty media type applications. It is Independent in the direction of rotation. It is simple in construction and easy to install. The single coil Unbalance mechanical seal. It is internally mounted mechanical seal. It is dependent in the direction of shaft rotation. Clockwise rotating shaft required right handed spring & Anticlockwise rotating shaft

required left handed spring.

It is simple in construction. rotary seal ring is driven by the motion transmitted by the shaft to the spring. Torque transmission for seal ring will be done through its drive lug. All parts of the Seal are Interchangeable, one can easily convert MFI-704 only by changing it's

Elastomers.



Product Features:

Single Acting

Independent in the Direction of Rotation

Unbalanced

Internally Mounted

Applications:

Crystallizing Slurry Dirty Water & Slurry Petroleum Refinery General Chemicals

Material of Construction:

Seal body : AISI 304, AISI 316, Hastelloy-C, Alloy-20

Face Material : Carbon, Silicon Carbide, Ceramic (99.5%), Tungsten Carbide

Elastomers : Viton, EPDM, TTV, FEP, Aflas, Kalrez, PTFE, GFT, CFT

Operating Limits:

Pressure : Upto 06 Bar Temperature : -20° C to $+200^{\circ}$ C Shaft Dia : 15mm to 100mm



Multi Spring Seal

Seal Type: MFI-MLT 701

The Series 701 are multi spring mechanical seal made for various applications. It's compact Design is easy to install and also easy for maintainance. This seals are independent of direction of rotation. It is internally mounted balance mechanical seal. It may install to all types of centrifugal pumps due to its compact design.

By changing it's seal ring component it can be easily convert to 'Wedge type' 701 from 'O' Ring type or vice versa depends on it's application. For easy installation and removal of the seal, all components are held together with the snap ring. All parts are interchangeable, one can easily convert 701 by changing its seal ring and secondary seal. This concept is ideal for Stock rationalization.



Product Features:

Single Acting

Independent in the Direction of Rotation

Internally Mounted

Unbalanced and balanced

Applications:

Petrochemicals Petroleum Refinery General Chemicals Light Hydrocarbon

Material of Construction:

Seal body : AISI 304, AISI 316, Hastelloy-C, Alloy-20

Face Material : Carbon, Silicon Carbide, Ceramic (99.5%), Tungsten Carbide

Elastomers : Viton, EPDM, TTV, FEP, Aflas, Kalrez, PTFE, GFT

Operating Limits:

Pressure : upto 35 Bar Temperature : -20° C to $+200^{\circ}$ C Shaft Dia : 42mm to 400mm

Wave Spring Seal

Seal Type: MFI-WVE 706

The Series 706 is single Wave springs seal designed for universal applications and ideal suited for standardization. The main advantage of these seal is that it has a wave spring which is laterally stable, lightweight, compact, and easy to install.

Torque transmission will be done by retainer shell punch to seal ring. These seals are also used in Dirty applications as spring clogging does not occurs. One can convert 706 by changing only it's Seal Ring & Elastomers. This is ideal for stock rationalization



Product Features:

independent in the Direction of Rotation

Unbalanced

Internally Mounted

Applications:

Abrassive & Sewage handling pumps High Viscosity Handling pumps General Chemicals Application

Material of Construction:

Seal body : AISI 304, AISI 316

Face Material : Carbon, Silicon Carbide, Tungsten Carbide, Ceramic (99.5%)

Elastomers : Viton, EPDM, TTV, FEP, Aflas, Kalrez, PTFE, GFT, CFT

Operating Limits:

Pressure : Upto 10 Bar
Temperature : -20°C to +200°C
Shaft Dia : 15mm to 100mm



Teflon Bellow Seal

Seal Type: MFI-TFL 786

The Series 786 is Externally mounted low pressure mechanical seal with metal free contact parts due to corrosive pumping media. Series 786 is designed for highly corrosive chemicals such as concentrated acids, chemically active organic compound, Corrosive and Abbrasive liquid. This seals are independent of direction of rotation. Seal ring face can be changed or replaced due to its design feature. The face is positively driven by integral lugs which is on bellow, it imparts smooth drive to the face.



Product Features:

Single Acting

Independent in the Direction of Rotation

Internally Mounted

Applications:

Extremely Corrosive Services Acids & Alkalies

Material of Construction:

Seal body : AISI 316, Alloy-20, Hastelloy C

Seal Faces : Carbon, Silicon Carbide, Ceramic (99.5%), PTFE, GFT, CFT

Springs : AISI 316, Alloy-20, Hastelloy C

 $Elastomers \; : \; PTFE, \, GFT, \, CFT$

Operating Limits:

Pressure : upto 6 Bar

Temperature : -20° C to $+100^{\circ}$ C Shaft Dia : 18mm to 100mm

Metal Bellow Seal

Seal Type: MFI-MLT 701

The Series 701 are specially developed mechanical seal suitable for high temperature. The bellow is constructed by welding a series of diaphragms together at the edges. Each welded set of plates has a fixed axial movement along the shaft.

Type 701 having a grafoil, is used as a secondary member having excellent temperature range upto 400° C. It has an shrunk fit seal face which minimize face distortion. And in type 701 having 'O' ring due to change in its application. Bellow will eliminates the need of spring and provide flexibility to the seal.



Product Features:

Self cleaning, non-clogging construction Highly corrosion resistant

High performance Easy to install

Applications:

Petrochemicals
Refineries
Soap Plant
Chemical Plants

Material of Construction:

Seal body : SS 316, Carpenter-42, Alloy 20, Hastelloy-C

Material of bellow : AM 350

Face Material : Carbon, Silicon Carbide, Tungsten Carbide

Elastomers : Viton, Aflas, Grafoil, Kalrez.

Operating Limits:

 $\begin{array}{lll} \mbox{Pressure} & : \mbox{ Upto 18 Bar} \\ \mbox{Temperature} & : -20^{\circ}\mbox{C to} + 400^{\circ}\mbox{C} \\ \mbox{Shaft Dia} & : 20\mbox{mm to 100\mbox{mm}} \end{array}$



Grundfos Seal

Seal Type: MFI-GRD 705

Max Flow Industries is one of the manufacturer of Grundfos Mechanical Seals in India. We have got a good reputation from our product Grundfos seals and good response from market. We offer the widest range of Grundfos seals as per client requirement . we are instrumental in offering superior quality Grundfos pump Catridge seals these Grundfos seals have sophisticated design for tough slurries.

MFI series Grundfos seals range is available in a variety of sizes, dimensions and other such specification to choose from. The Grundfos pump seal used for Stainless Steel, Vertical, Multistage, Centrifugal and Booster Pump. The Grundfos pump seal are available in various models as per different specification. It is suitable to Grundfos pump CR(N) 32,45,64,90,150, multi spring seal for Grundfos Pump.



Product Features:

Single Catridge Seals

Single Seals Unbalanced

Applications:

Grundfos pump Slurry pumps Pulp & paper

Petrochemicals, Refineries General Chemicals.

Material of Construction:

Seal body : AISI 304, AISI 316

Face Material : Carbon, Silicon Carbide, Tungsten Carbide

Elastomers : Viton, EPDM, Nitrile, Neuprene

Operating Limits:

Pressure : 30 Bar Temperature : 180 Deg c,

Shaft Dia : 12mm, 16mm, 22mm

High Pressure Seal

Seal Type: MFI-HPS 703

The Series 703 type is a simple to install, unitized cartridge mounted, balanced, multiple spring mechanical seal which requires no measuring for installation. The seal faces are protected from damage and contamination from dirt and foreign particles.

Simply slide the seal onto the shaft, bolt down the gland, tighten the set screws, and remove the location plate. The seal faces are positioned in the gland for maximum protection. The flush position maximizes face cooling.



Product Features:

Single Acting Independent in the Direction of Rotation Easy to install Cartridge Design

Applications:

Sludge & Syrup pump Petroleum Refinery Chemical, Refineries

Material of Construction:

Seal body : AISI 304, AISI 316, Hast'C', Alloy-20

Face Material : Carbon, Silicon Carbide, Tungsten Carbide, Ceramic (99.5%) Elastomers : Viton, EPDM, Nitrile, Neuprene, Aflas, Kalrez, PTFE, GFT

Operating Limits:

Pressure : 5 to 25 BarTemperature : $-20^{\circ}\text{C} \text{ to } +200^{\circ}\text{C}$ Shaft Dia : 20 mm to 400 mm



Dry Seal

Seal Type: MFI-DRY 707

The Series 707 design are basically used as dry running seals and can be used for corrosive services. The Advantage of these Seals are that it does not require any lubricant or Quenching for cooling.

These seals are use for mixers, agitators and reactors for clean ability. These seals were developed for sanitary applications where product contamination from barrier fluids is unacceptable. Hence this Seals are used.



Product Features:

Single Acting

Independent in the Direction of Rotation

Easy to install

Applications:

Corrosive Applications Pharma Reactors Petroleum Refinery General Chemicals

Material of Construction:

Seal body : AISI 304, AISI 316, Hast'C', Alloy-20

Face Material : Carbon, Silicon Carbide, Tungsten Carbide, Ceramic (99.5%)

Elastomers : Viton, Aflas, FEP, Kalrez,, TTV, PTFE, GFT

Operating Limits:

Pressure : upto 10 Bar Temperature : upto 120°C Shaft Dia : 20mm to 150mm

Double Mechanical Seal

Seal Type: MFI-DBL 800

The Series 800 are multi spring double mechanical seal design where absolute leak proof sealing is necessary due to toxic, hazardous nature of fluid. This seals is a combination of two conventional seals installed back to back inside stuffing box.

The inner seal prevents the circulated fluid to enter the system and the outer seal prevents it from leaking it to atmosphere. The circulation of the fluid reduces the heat generated on the seal faces. This seals are available in different design combination suiting to service conditions.



Product Features:

Single Acting
Independent in the Direction of Rotation
Internally Mounted
Back to Back Design

Applications:

Petrochemicals
Petro Refinery
General Chemicals

Material of Construction:

Seal body : AISI 304, AISI 316, Hastelloy-C, Alloy-20

Face Material : Carbon, Silicon Carbide, Ceramic (99.5%), Tungsten Carbide

Elastomers : Viton, EPDM, TTV, FEP, Aflas, Kalrez, PTFE, GFT, CFT

Operating Limits:

Pressure : upto 30 Bar Temperature : -20°C to +200°C Shaft Dia : 12mm to 100mm



Agitator Seal

Seal type: MFI-AGT 709

The Series 709 Agitator seals are design for handling severe services including products emitting highly toxic vapours during Reaction process. Packed in one compact, unitized cartridge assembly design which is easy for installation. These Seals are independent in the Direction of Rotation used in various type of Equipment like Agitator, Reactors, Mixers & Glass line vessel

These Seals require Cooling & quenching for better performance. The Jacketed Cooling also helps to maintain the cool environment around the seal. This seal are also supported by the Thermosyphon system to maintain the temperature & pressure inside the Seal Housing.



Product Features:

Single Acting

Independent in the Direction of Rotation

Easy to install

Cartridge Design

Applications:

Petrochemicals Light hydrocarbon

General chemical etc

Material of Construction:

Seal body : AISI 304, AISI 316, Hast'C', Alloy-20

Face Material : Carbon/ Silicon Carbide / Ceramic (99.5%), Tungsten Carbide

Elastomers : Viton, Aflas, FEP, Kalrez,, TTV, PTFE, GFT

Operating Limits:

Pressure : Full Vacuum to 25 Bar

Temperature : 60°C to 200°C Shaft Dia : 30mm to 450mm

Thermosyphon System

Thermosyphon system can be used for supplying buffer fluid, source of clean & pressurizing barrier fluid to double cartridge mechanical seals in back to back and nonpressurised buffer fluid for tandem seal arrangement. The Barrier fluid enters the Thermosyphon system, where it is cooled by water circulating through cooling coil to bring down the temperature of barrier fluid and back to the seal chamber. Super Thermosyphon arrangement is very effective. The pressure of the barrier fluid is higher than the pressure of the fluid being sealed thus maintaining the temperature and pressure at the sealing area

Thermosyphon system are equipped with all necessary connections & fittings which is used for the storage, pressure maintenance and cooling of buffer fluid in cartridge mechanical seal.



Performance Limits:

Capacity : 7.5 Liter
Hyd. Test Pressure : 30 Kg
Working Pressur : 20 Kg
Max. working temp : 180°C

Heat Transfer area of cooling coil : 0.3m² Cooling water flow rate

Note:

Thermosyphon of higher pressure can also be designed if required.

Alarm system can be supplied along with Thermosyphon on demand.

Connection Size:

Buffer fluid Inlet - A $\frac{1}{2}$ " NPT Buffer fluid Outlet - B $\frac{1}{2}$ NPT Cooling water Inlet - C $\frac{1}{2}$ " NPT Cooling water Outlet - D $\frac{1}{2}$ " NPT

Hand Pump Connection – $E - \frac{1}{4}$: NPT (Refilling Connection)

Filling Connection – F –1 $^{1\prime}4$ " NPT Pressure Gas Connection – G $^{1\prime}2$ " NPT Pressure Gauge Connection – H 3/8" NPT

 $Drain - I \frac{1}{2}$ " NPT

Safety Valve Connection – J ½" NPT



Oil & Gas Industry

Chemical Industry

Pharmaceutical Industry





Office Address

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