



# ANTICHEM EQUIPMENTS

## POLYPROPYLENE CHEMICAL PROCESS PUMPS



POLYPROPYLENE Process pump is a horizontal single end suction standardized process pump. PP series process pumps are supplied with mechanical seal / gland packing arrangement covering 85% of the chemical Industries requirement, The pumps are manufactured from Polypropylene copolymer-a chemically inert thermoplastic by the use of an exclusive moulding process. These pumps give you unusual protection against highly corrosive chemicals. The solid moulded casing and impeller ensure a smooth running pump for long life and a minimum wear. All pumps, shafts are fitted with sleeves of different materials compatible with the liquid handled.

### RANGE OF COVERAGE

Max. Capacity : 70 m<sup>3</sup>/hr

Max. Head : 38 mtr.

Max. Temperature : 75°C

Max. Speed : 3000 rpm

Material of Construction : Polypropylene.

Upto 2 Hp Monoblock / Non monoblock option available.



### APPLICATION :

Transferring of Concentrated HCL

Filter press for Dyes and Chemicals

Effluent Treatment.

Water treatment plants.

Scrubbing of Corrosive Gass like Cl<sub>2</sub>, Br<sub>2</sub>, F<sub>2</sub>, So<sub>2</sub>, So<sub>3</sub>, Co<sub>2</sub>, NH<sub>3</sub>.

Descaling, Electroplating.

### INDUSTRIES WHERE USED :

Dyes and Chemicals

Drugs and Pharmaceuticals

Causitic Soda Plants

Thermal and Atomic Power Plants

Fertilizer Plants, Copper, Zinc, Smelter

Pickling in steel Rolling Mills (Steel Plants)

Paper & Pulp Industries



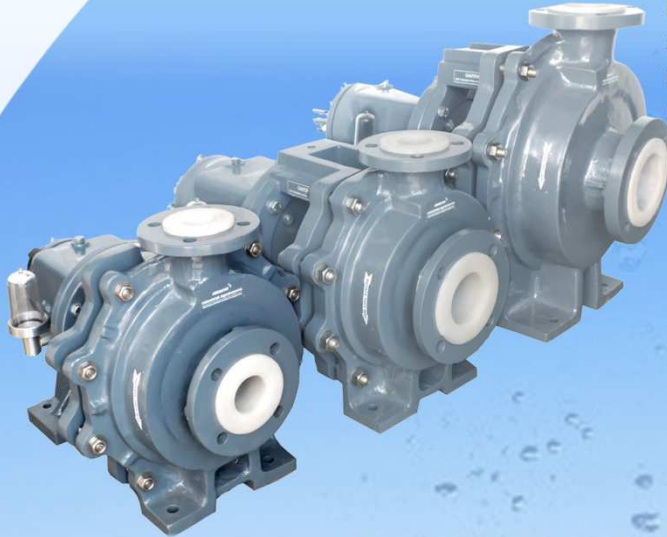
Molded PP Pumps have gained wide acceptance by chemical Industry for handling of corrosive media and ideal choice for handling of acids and alkalis. The pump incorporate robused design to handle corrosive fluids including corrosive slurries.





# ANTICHEM EQUIPMENTS

## FLUORO - POLYMER LINED PUMPS - PVDF, FEP, PFA



These Pumps are designed for handling of most several industrial duties & available in variety of lining materials to suit different requirements involving highly aggressive media at elevated temperature. The wetted parts of the pumps are lined with following fluoro - polymers.

- \* PVDF (Polyvinylidene fluoride)
- \* FEP (Fluorinated ethylene propylene),
- \* PFA (Perfluoroalkoxy)

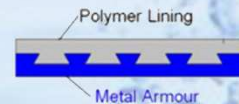
These pump having excellent chemical as well as temperature resistance similar to PTFE & cost effective alternatives to expensive metals & alloys hastalloy , tantalum, nickel etc.,



### Special Properties of PVDF

- \* Resistance to most chemicals & Solvents
- \* High thermal stability
- \* Mechanical strength at elevated temperature
- \* High purity
- \* High abrasion resistance
- \* Resistance to sunlight
- \* Resistance to nuclear radiation
- \* Low flame & smoke characteristics
- \* Resistance to fungus
- \* Low permeability to most gases & weldable
- \* Cold weather impact strength

### Advantage :



Polymer lining will reduce uneven shrinkages of the plastic while moulding.

Wetted parts of the pumps are of PVDF/FEP/PFA lined. Strong metal WCB / SG IRON Armor provides positive, solid support to polymer lining and anchoring grooves provide reinforcement. Hence these pumps can withstand for higher stress at elevated temperature and pressure than split armored / solid molded pump Available in 1440 as well as 2900rpm.

Flow rate upto 200 m<sup>3</sup>/hr.Head upto - 100mts.



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# ANTICHEM EQUIPMENTS

## CENTRIFUGAL CHEMICAL PROCESS METALLIC PUMP



Top centerline discharge, self-venting casing arranged for back pull-out. Fully confined gasket. Foot support under casing for maximum resistance of misalignment and distortion from pipe loads. ANSI-B-16.5 (Class 150) flanges standard. ANSI-B-16.5 (Class 300) optional for working pressures to 2550 kpa with 3mm corrosion allowance. For Maximum Corrosion erosion resistance casing is supplied without tapped opening but gauge and drain plug opening are provided when specified.

Impeller matched to casing for high efficiency and low NPSH. Fully open, has partial shroud for maximum vane support without high thrust inherent in closed impellers. Stuffing box pressure reduced and entrance of solids prevented by back pump-out vanes. Large smoothly contoured flow passages combine best slurry and solid handling ability. Impeller is locked on shaft with impeller lock-out and are sealed by PTFE gasket. State of the art casting methods provide smoothest possible surfaces for highest efficiency. All impeller are statically and dynamically balanced.

### RANGE OF COVERAGE

- Max. Capacity : 80 m<sup>3</sup>/hr
- Max. Head : 60 mts
- Max. Working pressure : 16 Bar
- Max. Temperature : 200 C
- Max. Speed : 3000 rpm
- Material Of Construction : CI, CS, SS, Alloy20, Hastelloy B & C etc.



### APPLICATION :

- High Temperature liquids up to 260 C.
- Low specific gravity hydrocarbons
- Highly Viscous & high freezing point fluids
- Corrosive acids
- Caustic Services
- Slurries
- Outdoor or Indoor installations

### RANGE OF COVERAGE

- Max. Capacity :500 m<sup>3</sup>/hr
- Max. Head : 160 mts
- Max. Working pressure : 16 bar
- Max. Temperature : 200 C
- Max. Speed : 300 rpm
- Material of Construction: CI, CS, SS, ALLOY20, Hastelloy B & C, Monel, CD4mcu



### Applications

Chemicals, petrochemical Refineries, Sugar, paper Dyes, Textile, Rubber products, Environmental Engg., Handling of Hydrocarbons, Organic and Inorganic Chemicals , Condensate DM Water, Marine & Sea Water Application, food Stuff Industries etc.

PCF Process pump is a horizontal single end suction standardized back pull out process pump in accordance with ISO2858/DIN2456. The PCF series process pumps are single piece, self venting radially split volute casing with vortex discharge, close radial impellers have back vanes for hydraulic balancing & reducing box pressure. Dry shaft construction preventing .liquid contact with shaft.





# ANTICHEM EQUIPMENTS

## AXIAL FLOW PUMP

### DESIGN

The Axial flow pump generates flow by the thrust or lift action of rotating axial vanes of the impeller. The pump has an elbow that directs the flow through the suction and out the discharge end of the pump. It can be used in the top or end suction configuration depending upon the need and flange dimensions, bolt circles and holes comply with ANSI B16.5, 150#. The back pull out design (up to 14" size) allows for easy maintenance and repair as the rotating element may be removed without disturbing the pipe work. Pump has wear rings as standard and lifting eye on bearing bracket.



### APPLICATION

The JEC Axial Flow Pump is unmatched in the industry for high volume / Low head pumping requirements, especially when corrosive and/or abrasive solutions are involved. Mainly used in the following application:

- \* Evaporator and Crystallizer Circulation
- \* Phosphate, Soda Ash, Potash and Sodium Chloride Processing
- \* Black Liquor Evaporator, Chlorine Dioxide Generators
- \* Sewage Digesters
- \* Raw Water Pumping, Flood Control, Marine Ballast transfer



Horizontal non self priming pump with back pull out design (up to 14" size & bigger size available on request). The "back pull out" design allows for the maintenance of the pump without disturbing the pipe work connected to the casing, or the pump alignment.

### Operation data

**Pump Size : 5 inch to 36 inch (DN 125 to 900)**

**Flow up to : 20,000 m<sup>3</sup> / hr**

**Head upto : 9 mts**

**Temperature up to : 300° C**

**Max. working Pressure : 10 Bar**



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# ANTICHEM EQUIPMENTS

## AIR OPERATED DOUBLE DIAPHRAGM PUMP



We stand as a leading player of the market dealing in technically sound and productive range of **Air Operated Double Diaphragm Pump**. The offered pump is extensively used in the circulation of liquids and air. Finds application in chemical, pharmaceutical, beverages and many more industry, this pump is manufactured in compliance with predefined industry standards by making use of quality checked components and advanced technology. Moreover, this Air Operated Double Diaphragm Pump is available in various specification with complete range for our esteemed clients.



Polypropylene		
1/2" BSP (15mm)	2" BSP (50mm)	1 1/2" BSP (40mm)
1" BSP (25mm)	3" BSP (80mm)	
Polyvinylidene Fluoride		
1/2" BSP (15mm)	2" BSP (50mm)	1 1/2" BSP (40mm)
1" BSP (25mm)	3" BSP (80mm)	
Stainless Steel		
1/2" BSP (15mm)	1 1/2" BSP (40mm)	2" BSP (50mm)
1" BSP (25mm)	3" BSP (80mm)	
Aluminum (AL)		
1" BSP (25mm)	2" BSP (50mm)	3" BSP (80mm)
1 1/2" BSP (40mm)		
Cast Iron (CI)		
1 1/2" BSP (40mm)	2" BSP (50mm)	3" BSP (80mm)

### PUMP FEATURES :

- No electrical motor - non sparking.
- No mechanical seals or gland packing.
- The Pumps can run dry without damage.
- Safe for use in hazardous/explosive environments.
- Variable flow - simply regulate the inlet air supply to adjust flow from zero to max.
- By opening discharge, flow starts automatically.
- Self-priming from a dry start up to 6 meters without a foot valve.
- Pressure up to 100 PSI (7 bar)
- Operates submerged or with flooded suction.
- No close fitting, sliding or rotating parts so can handle a wide range of fluids with high solid content.
- Gentle Non-shearing action.
- Quick assembly and disassembly.







# ANTICHEM EQUIPMENTS

## MECHANICAL SEAL



Complete Cartridge Design Special Seal,  
The Special Design Double Back To Back Seal Cartridge,  
Seal Type : 52BS SP / 52U,  
Seal Face Combinations :  
Silicon Carbide V/s Silicon Carbide ( In Board Side ) &  
Carbon V/s Silicon Carbide ( Out Board Side ),  
Seal , Seal Gland Plate, Sleeve MOC : SS 316,  
Seal Size : As Bellow Mentioned  
Recommended API Plan :  
API Plan : 54 ( None Pressurized Water Circulations System)

### Agitator Seal

Application:

For Aitators, Mixers, Vessels, Auto Claves

Design Features:

Top entry drive, Catridge Construction, Independent of direction of rotation

Seal Face Material:

Rotary : Carbon / Silicon Carbide

Stationary: Ceramic / Silicon Carbide / Tungsten Carbide / Stellite.



### Type II (Teflon Bellow Seal)

Application:

For highly corrosive clear / absrasive liquids from low to medium pressure.(Externally Mounted).

Seal face material:

Rotary :GFT / Slc

Stationary: Ceramic / Slc

Shaft sleeve: Ceremic / HB / SS Alloy - 20

Pressure:9 Kg/Cm<sup>2</sup>, Speed Upto 12 m/2

### Type 52 BS

Application:

Petroleum Products, Fertilizers, Chemicals, Solvents

Equipments:

Centrifugal pumps, Mixers, Compressors and other equipments having rotating shaft

Pressure: upto 15 Bar, Speed upto 6000 R.P.M.

Seal Face Material : Slc / Carbon



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# ANTICHEM EQUIPMENTS

## SCREW PUMPS & VERTICAL GLANDLESS PUMPS



### HELICAL ROTOR PUMP

The unique pumping principle applied employs a highly precision manufactured Metallic Single helical rotor turning inside a double internal helical resilient stator. Thereby forming cavities confined by a "Sealing Line" which is maintained at stand still and during rotation. Whilst the rotor rotates in the stator, the cavity formed between them progresses from suction to delivery side, gently carrying the medium.

Good self priming properties even with air or gas inclusion in the liquid upto 8.5MWC.

Handles solids in suspension or mixture containing high percentage of solids. Bigger size pumps upto 40mm dia.

Steady and smooth flow with little pulsation makes it suitable for dosing and metering duties.

Direction of the flow through the pump is reversible by merely changing direction of rotation of the prime mover.

The pressure head is independent of speed and capacity is proportional to speed.

Gate and check valves are not necessary.

The metal bonded high precision moulded stator ensures, high efficiency pressure and increased life.

### VERTICAL GLAND LESS PUMP

Zero maintenance pumps, eliminates the need for gland Packing and seal.

Leak proof and can run dry without damage of rotating parts.

Pumps to be mounted outside the suction tank vertical position and not to be submerged.

Vertical Glandless Pumps, similar in hydraulic design to any conventional centrifugal pumps, it differs in, so far as restriction is provided, escape by way of an overflow Connection in the upper pump body & return to the suction line.

Preferred selection for E.T.P.Plant because of seal less design & can run dry.

Low maintenance cost & makes maintenance easy.

Capacity : 200M<sup>3</sup>/Hr  
Pressure : 24Bar  
Viscosity : 100000 Cst  
Temp. : 200 c



MOC : UHMWPE  
PRESSURE : 5 Kg/Cm<sup>2</sup> Max.  
FLOW : 45 m<sup>3</sup>/hr. Max.  
TEMPERATURE : 100° C  
SPEED : 3000 RPM Max.





# ANTICHEM EQUIPMENTS



## PINCH VALVES

- \* Seatless & glandless valves
- \* Field replaceable elastomer Sleeve / muff
- \* Rubber sleeve / muff has four reinforced lugs
- \* Flanged ends & drilled to DN, ANSI, BS-10, IS etc., This valve incorporates all design modification based on our experience & good quality finishing to abrasive and corrosive media.

## ROTARY GEAR PUMPS

Positive displacement external Rotary Gear Pumps are most efficient and economic range with variety of materials, which has special features like Simple & Compact design, Low noise level, High in efficiency and Easy to maintain. The Pumps are ideal for handling Oils and Viscous Liquids like all kinds of Fuel Oil, mineral Oils, Lubricating Oil, Fish & Animal Oils, Vegetable Oils, Asphaltants, sugar Syrups, Molasses, Starch, Inks, Paints, Colors, Varnishes Viscous Chemicals etc.,

**Sizes: 1/2" to 3" BSP CONNECTION**

**Capacity : 5Lpm to 500 Lpm**

**Pressure : Upto 10Kg/Cm<sup>2</sup>**

**M.O.C. : C.I.SS.**

**Also available in flanged end.**



## SELF PRIMING CENTRIFUGAL MUD/SEWAGE PUMP



**Application**

Ideal for pumping sewage muddy water with solid upto 17mm.

To handle polluted liquids, diesel, kerosene, effluents of chemical industries.

Dewatering foundations.

Widely used for public and civil engineering.

**Material of Construction:**

CI,CS,SS,Alloy20 etc.,

SPM pump is a single stage, Horizontal, Centrifugal, self Priming, End Suction Coupled pump. Automatic and quick self priming, no foot valve required. No priming of suction pipe line. Sturdy construction, simple design. Minimum maintenance required. Non closing and handles solids up to 17 mm.

**Range of Coverage**

Solids up to 17 mm.

Max. Capacity : 77 lps

Max. Head : 64 mtr.

Power rating for motor drive: 1.0 HP to 25.0 HP

For engine drive: 6.0 HP to 26.0 HP

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# ANTICHEM EQUIPMENTS

## BARREL PUMP



NON FLAME PROOF MOTOR

### SS Barrel Pump

#### Material Of Construction :

All wetted parts like pumping chamber, pump base, discharge tee, nozzle, wing nut and impeller are made of SS316 investment castings. The outer & inner pipes are seamless type made of SS-316. Shaft is made of SS-316 bright bar. Guide Sleeve and lip seals are made of Teflon.

### PP Barrel Pump

#### Material Of Construction :

All wetted parts like pumping chamber, pump base, discharge tee, nozzle, wing nut and Impeller are made of Molded Polypropylene. Outer & Inner pipes are made of Polypropylene, Shaft is made of Hastalloy-B-2 or, SS-316 also available. Guide sleeve and lip seals are made of Teflon & Impeller Also Available in ETFE/PVDF (If required)



FLAME PROOF MOTOR

### Teflon Barrel Pump

#### Material Of Construction :

All wetted parts like pumping chamber, pump base, discharge tee, nozzle, wing nut, impeller are made of TEFLON, Outer & Inner pipes & Guide sleeve are made of Teflon, Shaft is made of Hastalloy-B2. Impeller is made of ETFE (Moulding grade of Teflon)

#### Drive :

Pumps Available with Pneumatic / Flameproof / Non Flameproof Motor & also Available with Regulating System.

#### OPERATING

**DATE** : Upto 110 Lts / Min. At open discharge head  
Upto 560cp

**PUMPING TYPE** : Submerged, Self Priming

Antichem Barrel Pumps are widely accepted barrel and container pumps for handling highly fluid and viscous liquids max. upto 560cp.

Pumps has been designed such that it can be used for various containers range from 25Lts. Caboy to 500 Lts. Barrels

Pumps are available in three different pump Tube lengths. i.e L= 700, 1000, 1250mm.

#### APPLICATION

Pharamacueticals, Cosmetics, Food, Brewries, Distilleries, Chemicals, Paints, Pesticides, Engineering, Textiles etc.

#### NOTE

**Do Not Run the Pump Dry.**  
Pumps are only for clear liquid only.







# ANTICHEM EQUIPMENTS

## OTHER PUMPS



SS SELF PRIMING PUMP



OIL CUP



SS ROTARY GEAR PUMP



DOSING PUMP



MONOBLOCK GEAR PUMP

## PUMP SPARES



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