



ISO 9001:2015



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OUR JOB IS YOUR PRODUCTION

Antichem Equipments

(An ISO 9001:2015 Company)

Manufacturer & Supplier of All Type of Chemical
Process Pumps and Equipments

www.antichem.net



POLYPROPYLENE CHEMICAL PROCESS PUMPS

PP / PPH / GFPP Process pump is a horizontal single end suction standardized process pump. PP / PPH / GFPP process pumps are supplied with mechanical seal / gland packing arrangement covering 85% of the chemical Industries requirement, The pumps are manufactured from PP / PPH / GFPP a chemically inert thermoplastic by the use of an exclusive moulding process. These pumps gives 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 : 70m³/hr

Max. Head : 38 mtr.

Max. Temperature : PP: 60°C / PPH: 75°C / GFPP: 100°C

Max. Speed : 3000 rpm

Material of Construction : Polypropylene / PPH / GFPP

Upto 3 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 Ci₂, Br₂, F₂, So₂, So₃,Co₂, NH₃,
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 / PPH / GFPP 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 robust design to handle corrosive fluids including corrosive slurries.





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 with stand for higher stress at elevated temperature and pressure than split armored / solid molded pump Available in 1440 as well as 2900rpm.

Flow rate upto 400 m³/hr.Head upto - 100mts.





METALLIC CHEMICAL PROCESS 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 : 450 m³/hr

Max. Head : 100 mts

Max. Working pressure : 16 Bar

Max. Temperature : 260°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

PUMPS SUPPLIED - PLANT

Evaporation Plant

ATFD

Caustic Recovery Plant

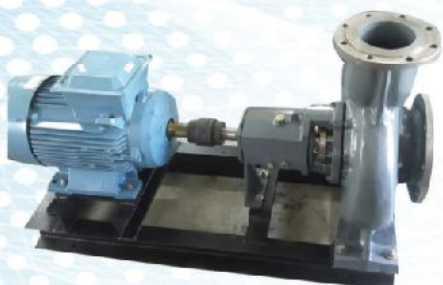
Refinery Plant

ETP & RO

Chlorination Plant

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.





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 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 m³ / hr
Head upto : 9 mts
Temperature up to : 300°C
Max. working Pressure : 10 bar





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.

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

PUMP FEATURES

- No electrical motor - non sparking.
- No mechanical seals or gland packing.
- The Pumps can run dry without damage.
- Safe for use in horizardous/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 value. 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.



MECHANICAL SEAL



Antichem Is Also Manufacturing Mechanical Seal For Our Pumps, Equipments & Other Make Pumps We Have Well Equipped Infrastructure With Modern Machineries For Manufacturing Mechanical Seal Antichem Specialised To Providing Sealing Solution For Pumps & Equipments Be Developing Mechanical Seal As Per Customer's Requirement We Also Do Repairing & Reconditioning Of Mechanical Seal

TYPES OF MECHANICAL SEAL

- Single & Multi Spring Mechanical Seal
- Single & Double Cartridge Mechanical Seal
- Agitator / Reactor Mechanical Seal
- Rubber Bellow Mechanical Seal
- Teflon Bellow Mechanical Seal
- Metal Bellow Mechanical Seal
- Rotary Joints



Face Available: Gft / Sic / Ceramic / Carbon / Tc. Etc
Sleeve: Ceramic / Ss / Titanium / Hast-C / A-20 / Copper / Sic, Etc

MONOBLOCK PUMPS



Antichem Make Monoblock Pumps Are Study Design & Gives You Good Performance & Life. All Monoblock Pumps Are Made Either Solid Injection Moulded Or Investment Casting – No Fabrication

ADVANTAGE OF MONOBLOCK PUMPS

- No Alignment Required
- No Bearing Lubrication Required
- Small Pump Required Less Space
- Easy To Maintain & Service

Metallic Monoblock Pumps

Pump Moc : SS-304 / SS-316 / A-20 / Hast-C. Etc
 Pumps Available In Single & Double Mechanical Seal
 All Hardware Are In SS
 Motor & Pump Shaft Are Separate
 Shaft Moc : SS-316
 Sleeve : Ss-316 & Other Alloy

Non Metallic Monoblock Pumps

Pump Moc : PP / PPH / GFPP / PVDF
 Pumps Available In Single & IMS Mechanical Seal
 All Hardware Are In SS
 Motor & Pump Shaft Are Separate
 Shaft Moc : SS-410
 Sleeve : Ceramic



•Head In Mts. & Flow In M³/Hr

Metallic Pump Performance Details					
Model	Size	Hp / Rpm	Head / Flow	Head / Flow	Head / Flow
25130m10	32 X25	1.0 / 2850	10 / 05	08 / 06	06 / 08
25130m15	32 X25	1.5 / 2850	15 / 07	10 / 10	08 / 12
25130m20	32 X25	2.0 / 2850	20 / 08	15 / 10	12 / 15
23180m30	32 X25	3.0 / 2850	28 / 08	20 / 12	15 / 15
40200m30	80 X40	3.0 / 1450	12 / 20	10 / 28	07 / 35
50200m50	80 X50	5.0 / 1450	12 / 25	10 / 35	06 / 45
Non metallic pump performance details					
Model	Size	Hp / Rpm	Head / Flow	Head / Flow	Head / Flow
PPC100m	25 X25	1.0 / 2850	10 / 02	08 / 05	05 / 06
PPC120m	32 X32	2.0 / 2850	15 / 03	10 / 10	07 / 14
PPC130m	32 X32	3.0 / 2850	20 / 08	15 / 14	10 / 18



SCREW PUMPS & VERTICAL GLANDLESS PUMPS



HELICAL ROTOR PUMP

The unique pumping principle applied employs a highly precision manufactured Metalic Single helical rotor turning inside a double internal helical resilientstator. 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.

RANGE OF COVERAGE

Capacity : 200 m³/hr
Pressure : 24 bar
Viscosity : 100000 Cst
Temp. : 200°C

VERTICAL GLAND LESS PUMP

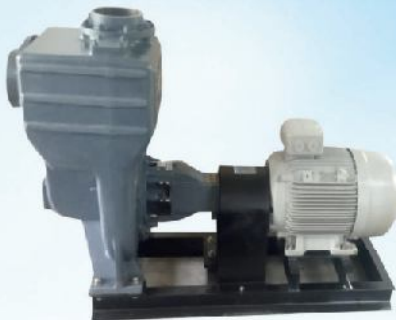
Zero maintenance pumps, eliminates the need for gland Packing and seal. leak proof and can run dry without damage of rotating parts. Pumps to be mounted out side the suction tank vertical position and not to be submerged. Vertical Glandless Pumps, similar in hydraulic design to any conventional centrifugal 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.

RANGE OF COVERAGE

MOC : UHMWPE
PRESSURE : 5 Kg/Cm² max.
FLOW : 45 m³/hr. max.
TEMPERATURE : 100°C
SPEED : 3000 rpm max.



SELF PRIMING CENTRIFUGAL MUD/SEWAGE PUMP



MSP/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

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.,

PINCH VALVES

Sealless & 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 /Cm²

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

Also available in flanged end.





BARREL PUMP



Pump type : vertical submersible barrel pump

Drive : Electrical / Air Operated Barrel Pump

Moc : PP With Ss Shaft / Ss-316 / Ms Chrome

Pump Length : 700mm / 1000mm / 1250mm

Viscosity : Up To 500 Cp

Pump Type : Vertical Submersed Self Priming

Head : 10 mts Maximum

Flow : 100 Lpm Maximum

Temperature : 60° C Maximum

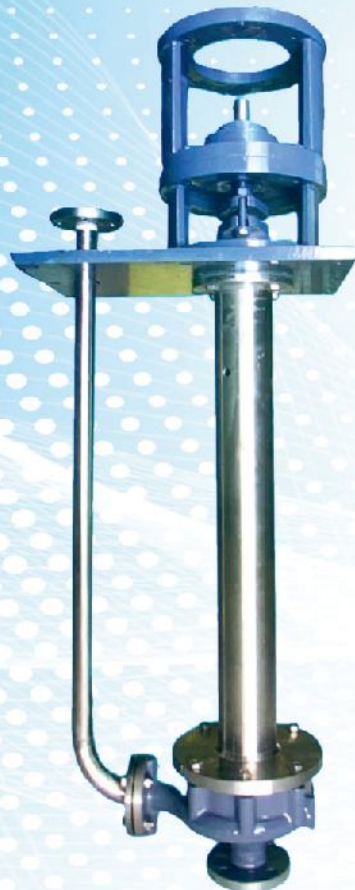
Electric Motor : 1500 rpm, Single Phase AC, 400w, 230v, 50Hz,
Shock Proof & Chemical Resistance Body

Pneumatic Motor : 1500 rpm, Operated On Compressed Air At 4-6 bar
Pressure With 5 To 8 Cfm

Suitable For : 35 / 50 Lts Carboy & 200 / 1000 Lts Barrel

Application : Pharmaceutical Industry / Food Industry / Solvents /
Diesel / Paint / Perfume

VERTICAL SUBMERSIBLE PUMPS



Antichem make vertical submersible pump are heavy in design & suitable for chemical & effluent transfer application

The Rotating Shaft Within The Column Can Be Supported At 3 Or 5-Foot Intervals Through Sleeve Bushings. These Are Placed Within The Column & Greased By The Water Flowing Past Them. The Discharge Head Of The Pump Will Be Located At The Surface Of This Pump That Allows The Water Flow To Modify Direction, In The Direction Of The Discharge Pipe. A Vertical High Push AC Motor Is Placed On The Top Of The Discharge Head.

Pump Type : Vertical Submersible Centrifugal Pump

Pump Moc : PP / CI / SS

Pump Length : Up To 2.0 Mts From Casing To Mounting Plate

Head : Up To 50 Mts Maximum

Flow : Up 50 M³/Hr Maximum

No Mechanical Seal

No Cooling Required

No Priming Required

Vertical Centrifugal Pumps Will Definitely Take Up Less Floor Space. They Are Well-Suited For Liquids With High Temperatures And The NPSH Can Be Altered To Handle A Wider Range Of Applications. Have Low Maintenance Needs And Can Stand Extreme Challenges And Temperatures. Vertical Submersible Centrifugal Pumps Are Suitable For Wastewater, Mining, Pulp & Paper And Other Industrial, Municipal applications & chemical transfer



DOSING PUMPS

We Are Also Supplying Dosing Pump For Various Chemicals For Processing, Etp, Ro, Etc Application Performance Of Dosing Pumps Has Been Critically Evaluated And The Company Has Established A Name As A Comprehensive Dosing Solution Provider.

ELECTROMAGNETIC DOSING PUMPS



Flow Available : 0.44 Lph To 54.6 Lph
Maximum Pressure : 25 Kg/Cm²
Moc Available : PP / PVDF / SS

ELECTROMECHANICAL DOSING PUMP



Flow Available : 25 Lph To 800 Lph
Maximum Pressure : 22 Kg/Cm²
Moc Available : PP / PVDF / SS

MACHINE SHOP



TESTING BENCH





ANTICHEM EQUIPMENTS

SALEM FACTORY

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DEALERS