

# Run to Perform



**APEX PUMPS INDUSTRIES**



## About Us

**Apex Pumps Industries (API Pumps)** is being led under the efficient leadership of **Mr. Anil Patel**. Having an experience of 21 years in Manufacturing, Design Developing, Marketing and as an Application Engineer, the company is constantly striving to achieve new heights of excellence in every area. Excellence in performance with best quality is our motto. That's why we, at **API Pumps** say, it runs to perform.

## Multiple Options

**API Pumps** have a wide range of products to suit your requirement. We manufacture the pumps of Horizontal Centrifugal end Suction Pumps, Horizontal Single Stage Side Suction Pumps, Vertical Long Shaft Sump Pumps, High Pressure Multistage Pump, Polypropylene Centrifugal Pumps, Polypropylene Vertical Seal / Gland Less Pumps, Self Priming Non-Clog Pumps, Progressive Cavity Screw Pumps, Multi Purpose Rotary Gear Pump, Dosing Pumps, Water Separator Pump, Submersible Sewage Pump for various industrial functions.

It can be used for any mechanical seal, cartridge seal or packed gland arrangement, with flush, quench or independent circulation system is possible with the **Apex Pumps** range. Modular construction enables the pump to be engineered using standard stock components wherever possible. We can quickly produce any special parts against tight deadlines with utmost precision. Whatever is your requirement, we are there to fulfill it.

## Specialized Materials

**API Pumps** undertakes a constant research program with new materials and technologies for various types of material of the pumps. The objective is to create state-of-the-art equipment offering optimum component reliability. **API Pumps** carry large stocks of Cast stainless steel pump components, and operate fast track manufacture of specialist materials such as Duplex stainless steel. Cast Alloy, Cast Bronze, Cast Steel, Cast Iron, PP, PPCP and UHMWPE backed by full materials certification and traceability.

## Outstanding Services

We have a well planned service back up which facilitates our valued customers in case of any problem. We believe in solving the problem by reaching to its root cause, rather than solving it temporarily. This approach has helped us to win the trust of our honored customers.

## Competitive Prices

As a specialist manufacturer of centrifugal pumps, all **Apex Pumps** products are designed to be highly competitive without compromise to quality and good engineering practice. Yet they are priced at very competitive rates. So you can get the world class quality at very affordable prices. We always say that quality is a rule at **API Pumps**, and not an exception.

## Quality Matters

Quality is the most important aspect we thrive upon. The name **API Pumps** has become synonymous to quality and performance. Our quality standards equals to those of ISO standards. And we achieve it effortlessly.





## TYPE - APC SERIES

Horizontal Centrifugal End Suction Pumps

### Operating Range

Capacity	: Up to 1500 M <sup>3</sup> /hr
Head	: Up to 150 mtr
Discharge Size	: Dn 32 to 300 mm
Temperature	: Up to 350°C
Speed	: Up to 3500 rpm
Pressure	: Up to 15 kg/cm <sup>2</sup>

### Applications

- Chemical, Refinery, Petrochemical & Process.
- Pulp & Paper, Sugar, Starch industries.
- Fertilizer, Textiles, Laminate, Steel industries.
- Air-condition plants, Fire Fighting application.
- Power plants, Desalination plants, Sea Water.
- Marine, Irrigation, Building service, Food industries.
- Salt, Rubber, General industrial services etc.....

### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Cast bronze, cast steel, cast Iron
- Hastalloy - B & C, Alloy-20 etc.....

### Features

- Back pull out design
- Conform to iso 2858 dimensions
- High efficiency hydraulic design
- Heavy duty shaft, sleeve and bearings
- Low NPSH
- Noise and maintenance free
- Single and double mechanical seal
- Single stage closed impeller
- Steady head and capacity
- One roller bearing on pump end, two angular contact ball bearing with oil lubricated.
- Several flange drilling options according to valid standards.
- Suitable with V-belt drive or direct coupled with a motor.



## TYPE - APS SERIES

Horizontal Centrifugal End Suction, Open/Semi Open Impeller Non-Clog Pulp and Paper Stock Pump

### Operating Range

Capacity	: Up to 650 M <sup>3</sup> /hr
Head	: Up to 56 mtr
Discharge Size	: Dn 32 to 200 mm
Temperature	: Up to 140°C
Speed	: Up to 3500 rpm
Pressure	: Up to 5.6 kg/cm <sup>2</sup>

### Applications

- Handling pulp stock up to 7% consistency in Pulp & Paper industries.
- Handling Sugar Juice, Bagasse Slurries, Effluent, Water Thin & Thick Sludge in Sugar industries.
- All liquor applications in Pulp & Paper industries.
- Palm oil mills and Refineries, Food industries.
- Waste water treatment plant, Starch industries.
- Salt, Rubber, General industrial services etc.....

### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Cast bronze, Cast Steel, Cast Iron
- Hastalloy - B & C, Alloy-20 etc.....

### Features

- Single stage open & semi open impeller
- Casing wear plate for protect the volute casing.
- Back pull out design
- Conform to ISO 2858 dimensions
- High efficiency hydraulic design
- Heavy duty shaft, sleeve and bearings
- Low NPSH
- Noise and maintenance free
- Steady head & capacity
- One roller bearing on pump end, two angular contact ball bearing with oil lubricated
- Several flange drilling options according to valid standards.
- Suitable with V-belt drive or direct coupled with a motor.



## TYPE - AOP SERIES

Horizontal Centrifugal end Suction Pumps  
With Semi Open Impeller.

### Operating Range

Capacity	: Up to 42 M <sup>3</sup> /hr
Head	: Up to 46 mtr
Discharge Size	: Dn 25 to 50 mm
Temperature	: Up to 140°C
Speed	: Up to 3500 rpm
Pressure	: Up to 4.6 kg/cm <sup>2</sup>

### Applications

- Organic/ Inorganic Chemical Intermediates industries.
- Pulp & Paper, Sugar, Salt, Starch industries.
- Food, Textiles, Laminate, Cement & Steel industries.
- Pharmaceutical, Dyes, Textiles, Kerosene, Diesel & other Solvents, Caustic.
- ETP, STP & Waste Water treatment plant.
- EVA-operator, Scrubber application.
- Filter Press Feeding, Slurry transfer.
- Rubber, General industrial services etc.....

### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Cast bronze, cast Steel, cast Iron
- Hastalloy - B & C, alloy - 20 etc.....

### Features

- Back pull out non-clog design.
- Single stage semi open impeller.
- Compact design using less floor space.
- Easy maintenance, replaceable parts.
- High efficiency hydraulic design.
- Heavy duty shaft, sleeve and bearings.
- Low NPSH.
- Single and double mechanical seal.
- Grease/ oil lubricant bearings.
- Suitable with V-belt drive or direct coupled with a motor.



## TYPE - AFP SERIES

Horizontal Single Stage Side Suction Pumps  
In Filter Press Application.

### Operating Range

Capacity	: Up to 200 M <sup>3</sup> /hr
Head	: Up to 100 mtr
Discharge Size	: Dn 40 to 100 mm
Temperature	: Up to 140°C
Speed	: Up to 3500 rpm
Pressure	: Up to 10 kg/cm <sup>2</sup>

### Applications

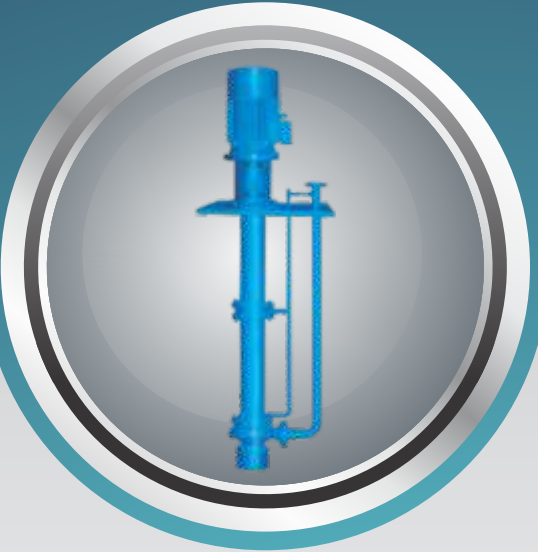
- Filter press feeding.
- ETP, STP & Waste Water treatment plant.
- EVA-operator, Scrubber application.
- Slurry transfer.
- Dyes & Intermediates, Steel Rolling mills.
- Pulp & Paper, Sugar, Salt, Starch industries.
- Zink & Copper plant.
- Ceramic, General industrial services etc.....

### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Cast bronze, cast Steel, cast Iron
- Hastalloy - B & C, alloy - 20 etc.....

### Features

- Single stage semi open impeller.
- Special design for filter press application.
- Reduce gland leakage.
- Heavy duty shaft, sleeve & bearings.
- Noise & maintenance free.
- Long life due to replaceable wearing parts.
- High efficiency low power consumption.
- Grease/ oil lubricant bearings.
- Only positive (+V) suction head.
- Suitable with V-belt drive or direct coupled with a motor.



## TYPE - ALSP SERIES

### Vertical Long Shaft Sump Pumps

#### Operating Range

Capacity	: Up to 300 M <sup>3</sup> /hr
Head	: Up to 35 mtr
Discharge Size	: Dn 25 to 125 mm
Temperature	: Up to 50°C
Speed	: Up to 2900 rpm
Pressure	: Up to 3.5 kg/cm <sup>2</sup>
Pump Length	: Up to 3 mtr

#### Applications

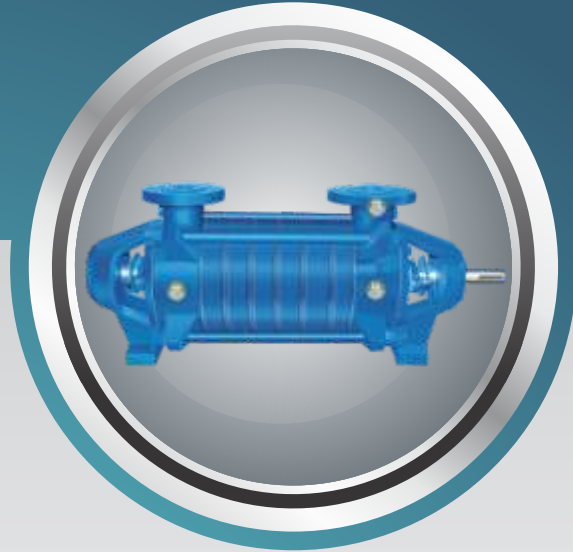
- Sulphuric Acid, Nitric Acid, HCL transfer.
- Solvents, Diesel & Petrol transfer.
- Light Slurries, Organic chemical processing.
- Water, Cooling Water, Effluent, Cleaning product & Hydrocarbons.
- Zink & Copper Plant.
- Salt, Pharmaceutical, General industrial services etc.....

#### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Cast bronze, Cast steel, Cast Iron
- Hastalloy - B & C, Alloy-20 etc.....

#### Features

- Designed to meet specific lengths & application requirements.
- Base plate designed to meet exiting support arrangements.
- Standardized & modular design.
- Standard shaft sealing by oil seal, mechanical seal or stuffing box packing.
- Connects the pump casing with the base plate.
- Column pipe protects the shaft.
- Supports the eventual intermediate bush bearings.
- Suction strainers, simple mounting & self priming.
- Optimized hydraulic performance.
- Compact design using less floor space.
- Close / Semi open impeller.
- Easy maintenance, replaceable parts.
- Heavy duty shaft, sleeve & bearings.



## TYPE - AHPP SERIES

### High Pressure Multistage Pump

#### Operating Range

Capacity	: Up to 75 M <sup>3</sup> /hr
Head	: Up to 280 mtr
Discharge Size	: Dn 32 to 65 mm
Temperature	: Up to 140°C
Speed	: Up to 3500 rpm
Pressure	: Up to 28 kg/cm <sup>2</sup>

#### Applications

- Mine - Dewatering & Descaling.
- Boiler feed water service.
- High pressure application in Pulp & Paper mills.
- General Water & Fire - Fighting systems.
- Main & Auxiliary condensate extraction.
- Sprinkler Irrigation.
- Filter Press Washing.
- Water supply to high raise buildings.

#### Materials

- SS-316, SS-316 L
- SS-304, SS-304L
- Cast bronze
- Cast steel
- Cast iron etc.....

#### Features

- Axial thrust compensated by balancing drum.
- Barrel type construction.
- Multi stage with single suction die casting closed impeller.
- Heavy duty ball bearings capable to carry thrust load on either direction. grease lubricated bearing for longer life.
- Un-cooled soft-packing are provided with sealing connection on a suction side. for higher pumped media temperatures, a stuffing box can be provided with cooling cover facilitating the external cooling.
- All the flanges are faced and drilled as per din standards.
- Pump designed to drive by an electric motor through flexible coupling. direction of rotation is a clock wise viewed from drive ends. suction is nearer to coupling & discharge at other end.



## TYPE - APP SERIES

**Polypropylene Corrosion Resistant Centrifugal Pumps**

### Operating Range

Capacity	: Up to 295 M <sup>3</sup> /hr
Head	: Up to 60 mtr
Discharge Size	: Dn 25 to 100 mm
Temperature	: Up to 70°C
Speed	: Up to 3500 rpm
Pressure	: Up to 6 kg/cm <sup>2</sup>

### Applications

- Electro plating, Pickling & Steel rolling mills.
- Water treatment plant, Effluent treatment plant.
- Excellent for transfer & loading-unloading like HCL, Sulphuric Acid, Alkali, Caustic liquid.
- Scrubbing of corrosive gases like NH<sub>3</sub>, CO<sub>2</sub>, SO<sub>3</sub>, SO<sub>2</sub>, I<sub>2</sub>, F<sub>2</sub>, Br<sub>2</sub>, Cl<sub>2</sub>, 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.
- Filter press for Dyes & Chemicals, Descaling, Oil & other Fuels.

### Materials

- PP, PPCP, UHMWPE

### Features

- Designed to suit extremely corrosive duties in the process & chemical industries.
- Suitable for continuous service.
- Self venting type casing.
- Dynamically & hydraulically balanced impeller with aerodynamic profile vanes.
- Pump casing is provided with external metal ring for construction stability.
- Grease/oil lubricant bearings
- Pumps are fitted with either mechanical seal or gland packing depending on the service conditions.
- Shaft & sleeve of different material depending on the compatibility of the liquid to be handled.



## TYPE - AVP SERIES

**Polypropylene Corrosion Resistant Vertical Seal / Gland Less Pumps**

### Operating Range

Capacity	: Up to 55 M <sup>3</sup> /hr
Head	: Up to 45 mtr
Discharge Size	: Dn 25 to 50 mm
Temperature	: Up to 70°C
Speed	: Up to 3500 rpm
Pressure	: Up to 4.5 kg/cm <sup>2</sup>

### Applications

- Electro plating, Pickling & Steel rolling mills.
- Water treatment plant, Effluent treatment plant.
- Excellent for transfer & loading-unloading like HCL, Sulphuric Acid, Alkali, Caustic liquid.
- Scrubbing of corrosive gases like NH<sub>3</sub>, CO<sub>2</sub>, SO<sub>3</sub>, SO<sub>2</sub>, I<sub>2</sub>, F<sub>2</sub>, BR<sub>2</sub>, Cl<sub>2</sub>, 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.
- Filter press for Dyes & Chemicals, Descaling, Oil & other Fuels.

### Materials

- PP, PPCP, UHMWPE

### Features

- Designed to suit extremely corrosive duties in the process & chemical industries.
- No.1 choice for effluent treatment plants since there are no mechanical seals / glands.
- Can run dry due to absence of shaft seals.
- Few parts facilitates maintenance.
- Self venting type casing.
- Dynamically & hydraulically balanced impeller with aerodynamic profile vanes.
- Pump casing is provided with external metal ring for construction stability.
- Pumps are fitted with either mechanical seal or gland packing depending on the service conditions.
- Shaft and sleeve of different material depending on the compatibility of the liquid to be handled.



## TYPE - ASP SERIES

Self Priming Bare Shaft Non-Clog Pumps  
(Gland Type / Mechanical Seal Type)

### Operating Range

Capacity	: Up to 650 M <sup>3</sup> /hr
Head	: Up to 50 mtr
Discharge Size	: Dn 40 to 200 mm
Temperature	: Up to 80°C
Speed	: Up to 3500 rpm
Pressure	: Up to 5 kg/cm <sup>2</sup>

### Applications

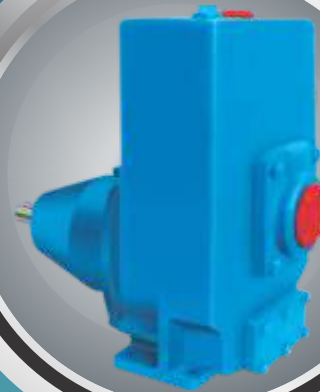
- Pier, Excavations, Pits, Pot-holes etc., Grampanchayat, Municipalities, Public Health Departments, Large Housing Colonies, industries like Chemical, Pharmaceuticals, Food, Cement, Paper, Sugar, Salt, Steel & Other for Liquid Cargo from Freighter, Barges.
- Mobile machinery - Cooling water for Marine Engines & Shovels.
- Civil construction dewatering foundations, Trenches & Pits, Filter Press Feeding, ETP, STP, Waste Water treatment plant.
- Dewatering, Mud, Marine, Effluent, Hotel, Loading & Transfer of Oils, Spirits, Swimming Pools, Gas, Oils, Engine cooling.
- Vessels, Industrial-pumping Petroleum products, Chemical.
- Public utilities-sewage pumping.

### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex Stainless Steel, Super Duplex Stainless Steel
- Cast Bronze, Cast Steel, Cast Iron
- Hastalloy - B & C, Alloy - 20 etc.....

### Features

- Non-clogging designed for high efficiency. Semi open type & are hand finished for perfect smooth flow.
- Heavy duty built in volute having self priming features & integrally cast with base from closed grained C.I. castings.
- Companion flanges are supplied along with pumps.
- Long life due to replaceable wearing parts.
- Quick automatic self priming action.
- Repairs possible without disturbing the pipe connection.
- Suitable for motor/engine, portable when fitted on trolley/trailer.
- No foot valve required. no priming of suction pipe line.
- Deep gland box used with graphite packing are lubricated by lantern ring with grease.



## TYPE - AMSP SERIES

Self Priming Bare Shaft Non-Clog Pumps  
(Mechanical Seal Type)

### Operating Range

Capacity	: Up to 75 M <sup>3</sup> /hr
Head	: Up to 48 mtr
Discharge Size	: Dn 32 to 280 mm
Temperature	: Up to 90°C
Speed	: Up to 3500 rpm
Pressure	: Up to 4.8 kg/cm <sup>2</sup>

### Applications

- Pier, Excavations, Pits, Pot-holes etc., Grampanchayat, Municipalities, Public Health Departments, Large Housing Colonies, industries like Chemical, Pharmaceuticals, Food, Cement, Paper, Sugar, Salt, Steel & Other for Liquid Cargo from Freighter, Barges.
- Mobile machinery - Cooling Water For Marine Engines & Shovels.
- Civil construction dewatering foundations, Trenches & Pits, Filter Press Feeding, ETP, STP, Waste Water Treatment Plant.
- Dewatering, Mud, Marine, Effluent, Hotel, Loading & Transfer of Oils, Spirits, Swimming Pools, Gas, Oils, Engine cooling.
- Vessels, Industrial-pumping Petroleum products, Chemical.
- Public utilities-sewage Pumping.

### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex Stainless Steel, Super Duplex Stainless Steel
- Cast bronze, Cast Steel, Cast Iron
- Hastalloy - B & C, Alloy - 20 etc.....

### Features

- Non-clogging designed for high efficiency. Semi open impeller.
- Heavy duty built in volute having self priming features and integrally cast with base from closed grained C.I. Castings.
- Quick automatic self priming action.
- No foot valve required. No priming of suction pipe line.
- Perfect sealing assured by high quality mechanical seal which cannot run dry because of internal oil reservoirs.
- Graded casting & SS shaft, increase service life.
- Bearings greased for life, save external lubrication. Minimum need for inspection & maintenance.
- Drive options of electric motor, coupled or belt-drive.

### Mechanical Seal Option:

- STV (Carbon v/s Ceramic/ Tc with NBR Elastomer)
- CCV (Carbon v/s Ceramic/ Tc with Viton Elastomer)
- CCT (Carbon v/s Ceramic/ Tc with PTFE Elastomer)



## TYPE - ACP SERIES

### Progressive Cavity Screw Pumps

#### Operating Range

Capacity	:	Up to 145 M <sup>3</sup> /hr
Head	:	Up to 250 mtr
Discharge Size	:	Dn 25 to 150 mm
Temperature	:	Up to 120°C
Speed	:	Up to 600 rpm
Pressure	:	Up to 25 kg/cm <sup>2</sup>

#### Applications

- Sewage effluent & Water treatment plant.
- Sugar, Starch, Cement, Pulp & Paper industries.
- Ceramics, Chemicals, Fertilizers, Soap & Detergents, Cosmetics.
- Paint, Varnish, Petrochemicals, Vegetable Oils, Mining, Steel, Rubber.
- Construction, Manmade fibers, Fisheries, Oil exploration.
- Pharmaceuticals, Cattle feed, Brewery & Distillery, Power.
- Dairies, Winery, Food & Beverages, Abattoir & Meat processing.
- Plantations, Fruit processing, Dye stuff, Textiles.

#### Materials

- SS-316, SS-316 L, SS-304, SS-304L, duplex stainless steel, super duplex stainless steel, cast bronze, cast steel, cast iron, hastalloy-B & C, alloy-20 etc...

#### Features

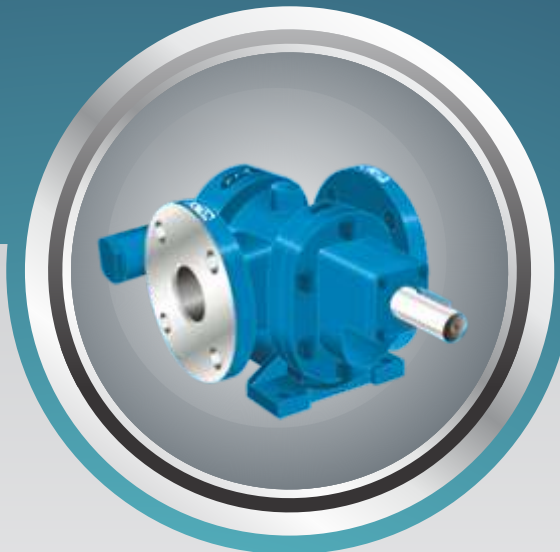
- Single rotating element, progressing cavities are generated which deliver a uniform, metered & non-pulsating flow.
- Head developed is independent of the rotational speed, where as the capacity is proportionate to the speed.
- Inherently self-priming, the pumps can work on snore & do not require a foot valve.
- Can Handle solids in suspension or medias containing a high percentage of solids.
- Suction lift capabilities of up to 9.5 mtr. and effective even in high vacuum conditions.
- Minimum degradation of shear-sensitive media & can also Handle highly viscous materials having pseudo-plastic characteristics.
- Due to the reversible rotation capabilities, progressive cavity pumps can perform with equal efficiency in either direction.
- Rotors turn inside a resilient stator & thus generate little noise.

#### Stator:

- Natural, Nitrile, High Nitrile, EPDM, Chloro-sulphonated Rubber, Fluoroelastomer

#### Rotor:

- Case hardened steel, alloy steel, HCP, stainless steel, up/HCP



## TYPE - ARP SERIES

### Multi Purpose Rotary Gear Pump

#### Operating Range

Capacity	:	Up to 195 M <sup>3</sup> /hr
Head	:	Up to 100 mtr
Discharge Size	:	Dn 12 to 200 mm
Temperature	:	Up to 200°C
Speed	:	Up to 1500 rpm
Pressure	:	Up to 10 kg/cm <sup>2</sup>

#### Applications

- To deliver a variety of Light & Viscous liquids such as Oil, Fats, Coal, Tar, Paint and Molasses.
- Highly viscous or semi viscous liquids like Ammonia, Bleaches, Coal, Tar, Dyes, Fruits Juice, Gasoline, Glycerin, Glue and Grease.
- Paints, Soap solution etc...

#### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel, super duplex stainless steel
- Cast bronze, cast steel, cast iron
- Hastalloy - B & C, alloy - 20 etc.....

#### Features

- Self priming pumps with five mtr. suction lifts.
- Compact in size, low noise, high efficiency.
- Easy maintenance, longer life, economical.
- An inbuilt pressure relief valve.
- Bush bearing with a heavy shaft.
- Double helical gears to reduce axial thrust.
- Continuous duty.
- Handle multiple liquids.
- Unique design.





## TYPE - ADPP SERIES

### Plunger Type Dosing Pumps

#### Operating Range

Capacity : Minimum- 0-0.7 LPH  
 Maximum- 0-10,000 LPH  
 Pressure : Up to 400 kg/cm<sup>2</sup>

#### Applications

- Polyelectrolyte dosing, Caustic dosing.
- Boiler chemicals dosing, Pressure testing.
- Dosing & transfer of viscous products like Cream.
- Syrup etc., Atomising of liquids etc.

#### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Hastalloy - B & C, alloy - 20 etc.....

#### Features

- Precise metering devices.
- Metering accuracy is almost independent of back pressure.
- Plunger is hard chrome plated.
- Flow rate is linear to stroke length variations.
- Multiple head plunger pumps with common drive for mixing two or more liquids in a desired ratio.
- Jacketed liquid heads can be heated by hot water/steam. ability to transfer & dose products which are highly viscous at room temperature.
- External arrangement for flushing the gland packing to increase its life is also possible.



## TYPE - ADDP SERIES

### Hydraulically Actuated Diaphragm Type Dosing Pumps

#### Operating Range

Capacity : Upto 7000 LPH  
 Pressure : Upto 100 kg/cm<sup>2</sup>,

#### Applications

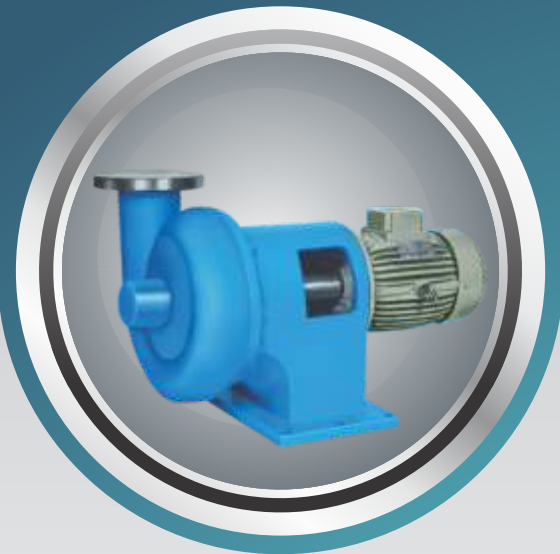
- All kinds of Acids, Flammable liquids.
- Corrosive liquids, Costly liquids.
- Sod, Hypochlorite, Ceramic slurry, Hazardous acids, Aggressive liquids, Food products

#### Materials

- SS-316, SS-316 L, SS-304, SS-304L
- Duplex stainless steel
- Super duplex stainless steel
- Hastalloy - B & C, alloy - 20 etc.....
- PP, PVC, PTFE, GFT
- Diaphragm – PTFE only

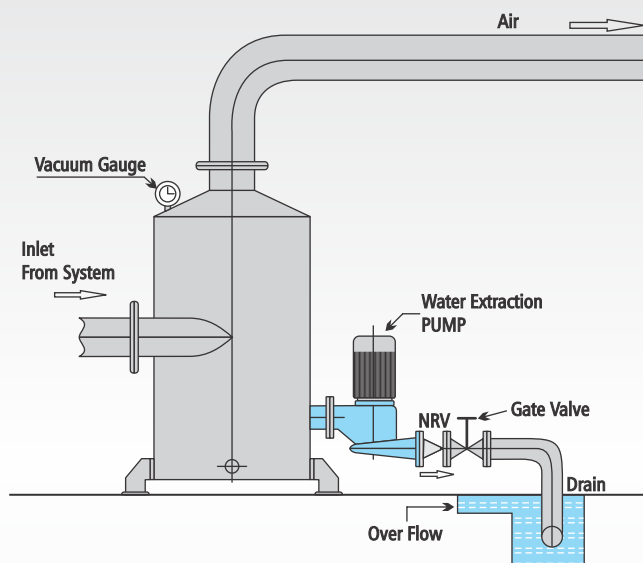
#### Features

- These are glandless and zero leakage pumps.
- Flow rate is linear to stroke length variation.
- Metering accuracy almost independent of back pressure.
- Diaphragm is always balanced between the pressure exerted by the hydraulic oil & the liquid to be dosed. longer diaphragm life.
- Automatic air bleeding from the hydraulic oil ensures better metering accuracy.
- Arrangement of in-built pressure relief valve to protect the pump from pressure exceeding the rated pressure.
- Rupture indication arrangement (ria) is an additional facility available with these pumps. these pumps with ria are provided with sandwich of two diaphragms. the rupture of any one of the diaphragms can be sensed by pressure sensing device.
- In case of metering pumps to be used in hazardous areas the liquid head can be kept at a remote place from drive side. the head & drive are coupled by hydraulic oil in flexible tube.



## TYPE - AVSP SERIES

Water Separator Pump For Under Vacuum Application



### Operating Range

Capacity	:	Up to 200 M <sup>3</sup> /hr
Head	:	Up to 25 mtr
Discharge Size	:	Dn 80 to 125 mm
Temperature	:	Up to 80°C
Speed	:	Up to 1500 rpm
Pressure	:	Up to 2.5 kg/cm <sup>2</sup>

### Applications

- AVSP pumps are gravity suction heavy duty pumps with specially designed for the low NPSH application like Water separator, Vacuum application, Hot water pumping application, etc.....

### Materials

- SS-316, SS-316 L, SS-304, SS-304 L
- Duplex stainless steel, super duplex stainless steel
- Cast bronze, cast Steel, cast Iron
- Hastalloy - B & C, Alloy - 20 etc.....

### Features

- Vertical type with flange mounted motor, single stage, gravity suction, radial split volute casing with radial flow impeller, sealing  
Type : Gland packing, mechanical seal, hydraulic sealing.



## TYPE - ASSP SERIES

Submersible Sewage and Effluent Pump

### Operating Range

Capacity	:	Up to 450 M <sup>3</sup> /hr
Head	:	Up to 45 mtr.
Temperature	:	45°C
Hp	:	0.75 to 50 (1 to 3 HP In Single Phase)
rpm	:	Up to 2880
Delivery Size	:	32 mm to 200 mm
Solid Size	:	100 mm
Connection	:	Dol, Star Delta, ATS
Voltage and Phase	:	415v, 3Phase / 215v, 1 Phase upto 3HP
Insulation/protection	:	'F' Class / IP 68
Motor	:	Two Pole Continues Duty Dry Type Squirrel Cage Induction Motor
Cable	:	PVC Insulated Double Heated Copper Conductor Flexible Cable
Mechanical Seal	:	Bi-directional Twin Mechanical Seal With Various Face Combination Looking to The Application.

### M.O.C.

: C. I., C. S.

### Optional Parts

: Impeller, Casing, Wearplate with Various M.O.C. Bronze, CF8, CF8M, CD4MCU etc...

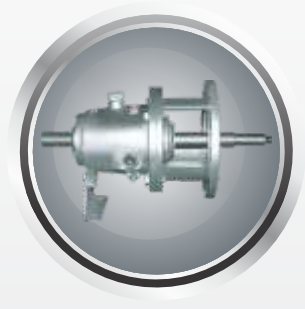
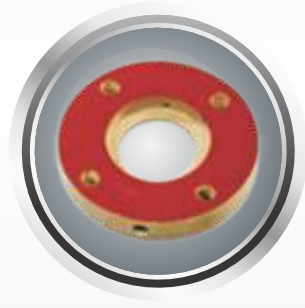
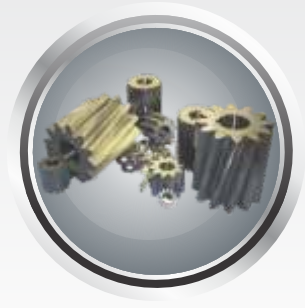
### Applications

- Muddy water transfer.
- Swimming pool.
- Dewatering of Ponds, Basement of huge building.
- Power Plant.
- Effluent transfer, ETP, STP, Waste Water treatment plant.
- Used in Hotel, Hospitals, Railways, Dairy, Chemical industry, Sugar, Steel, Cement, Food beverages etc...

### Features

- These pumps are wet-installed type submersible motor pumps with non-clog impeller. pumps have a robust design for continuous duty operation for various slurry applications.
- Handling of all types of abrasive or aggressive waste water in water & waste water engineering as well as industry, especially untreated sewage containing long fibers & solid substances, fluids containing gas/air, as well as raw, activated & digested sludge; sea water desalination.

# Pumps Spare



## APPLICATION INSTALLATION LIST

### Chemical

Sulphuric Acid  
Sodium Hydroxide  
Hydrochloric Acid  
Acetic Acid  
Ammonium Chloride  
Brine  
Chlorosulphonic Acid  
Ethanol

Phosphoric Acid  
Oleum  
Nitric Acid  
Maleic Acid  
Citric Acid  
Sodium Chloride  
Vinyl Acetate

### Petrochemical

Butadiene  
Benzene  
Toluene  
Ammonia  
Methanol  
Vinyl Chloride  
Ethylene Glycol  
Maleic Anhydride

Acrylonitrile  
Urea  
Formaldehyde  
Phenol  
Styrene  
Ethylene Oxide  
Xylene

### Pulp & Paper

Pulp Stock  
Shower Water  
White Water  
Chlorine Dioxide  
Sodium Hypochlorite

Fresh Liquor  
Black Liquor  
Green Liquor  
Dregs Washer  
White Liquor

### Brewing

Sprague Water  
Hot / Cold Wort  
Chilled Water  
Beer  
Reclaim Water  
Mash

Blow Black Beer  
Spent Grain Liquor  
Alcohol Transfer  
Yeast Brink  
Sulphuric Acid  
Caustic

### Primary Metal

Copper Cyanide  
Sodium Cyanide  
Chromic Acid  
Sodium Sulphate  
Ferric Chloride

Ferrous Sulphate  
Copper Sulphate  
Ammonium Sulphate  
Silver Cyanide

### General

Condensate  
Demonized Water  
Shower Water  
Hot Oil  
Wine

Sugar Cane Juice  
River Water  
Pond Water  
Cooling Tower Water



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