



**mrp**

**MRP PUMPS & SEALS**



## About us

# MRP PUMPS AND SEALS

Process Pumps of the best quality are manufactured by MRP Pumps and Seals, a firm that excels in this field. As a result of Mr. Patel's 15 years of involvement in the same business, earned name as leading pump manufacturing company in all over Ahmedabad as well as in India.

The company also relies on its strategically advantageous position in Kathwada, Ahmedabad, which is home to some of the nation's largest industrial foundations. A free-flowing commerce channel is ensured by its connectivity to the air and road networks.

Our product line comprises High End Process Pumps utilised in Thermic Fluid Heaters, Plywood, Laminates, Paper, Salt, Fertilizer Plant & Refinery, Chemical, Petrochemical, Sugar, IBR Boiler, Textiles, Oil, Mining, Agro, and many more industries.



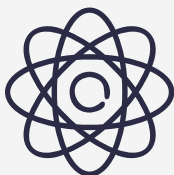
### Vision

We Want to Provide Prompt, Effective Service to all of Our Clients. Preserving Positive Business Relationships with each and Every one of our Clients. Providing the Greatest Technical Support based on each Customer's Unique needs, Together with Accurate and Timely Information on Available Options. Providing the Finest Business Terms and Competitive Pricing Feasible. Delivering Materials in their Original Packaging, Which is Sealed by the Business and Guarantees the Material's Exact Quality and Quantity.



### Mission

We Want to Provide Prompt, Effective Service to all of our Clients. Preserving Positive Business Relationship With each and Every One of Our Clients.



### Our Ideology

**Quality** – Develop a firm based on high-quality items that meet customer needs.

**New Technology** – Upgrading of products in the sector and adoption of new technology.

**Growth** – Growth achieved by utilizing its resources to the fullest extent possible.

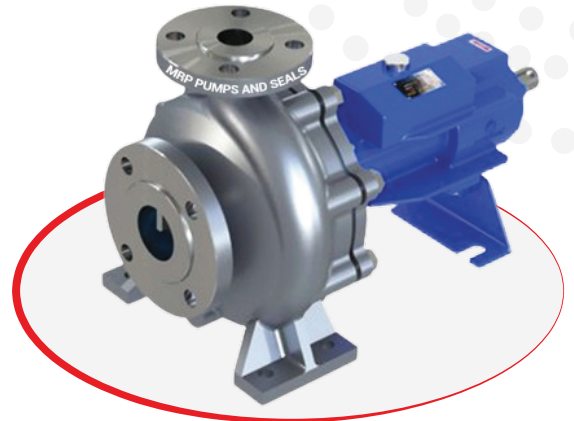
**Service** – Service focused society.

**Excellence** – Excellent products and a focus on the consumer.

# Air Cooled Pump

Air-cooled canned motor pumps designed for high-temperature applications isolate liquid in the motor section of the unit for the hot process fluid in the pump casing with a series of pressure ports located in the front bearing housing or pump casing adapter. This isolated liquid (usually the same fluid as the pumped fluid) is circulated through an air-cooled heat exchanger by an auxiliary impeller located on the rotor assembly.

This design allows the motor and bearing environment to be at a much lower temperature than the process fluid, enabling the use of standard bearings and motor insulation significantly reducing both first and long term operating and maintenance costs and eliminates the need for cooling water that could be of poor quality.



**Model : AMRP / KMRP**



## ADVANTAGES

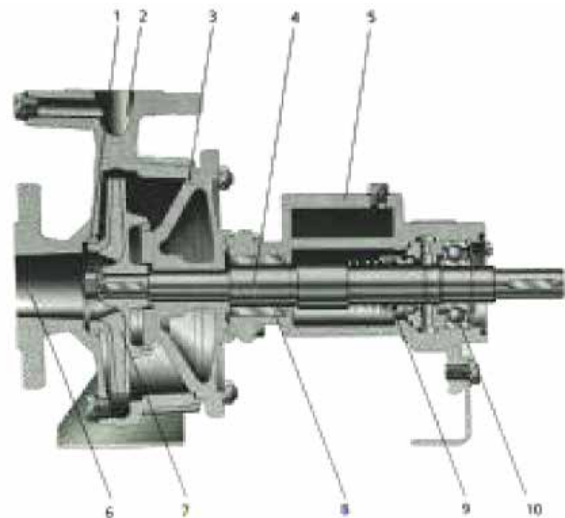
- ▶ Standard Motor Insulation & Bearings.
- ▶ Bearing Environment At Lower Temperatures.
- ▶ Secondary Containment.
- ▶ Eliminates The Concern of Fouling Caused By Poor Water Quality.
- ▶ Bearing Wear Monitors Available

## OPERATING RANGE

- ▶ Capacity -Q- : up to 300 m<sup>3</sup>/hr
- ▶ Head : up to 150 MLC
- ▶ Pump Size - DN : 25 mm to 300 mm
- ▶ Speed -N- : 1450/2900 rpm at 50 Hz & 3500 rpm at 60 Hz
- ▶ Temperature : up to +350°C max.

## SECTIONAL DRAWING

1. Clearance Gap
2. Discharge Nozzle
3. Casing Cover
4. Shaft
5. Bearing Bracket
6. Suction Nozzle
7. Impeller
8. Plain Bearing
9. Shaft Seal
10. Motor End, Rolling Element Bearing



# Thermal Hot Oil Pump / Water Cooled Pump

## ADVANTAGES

- ▶ Single stage, end suction centrifugal pumps.
- ▶ Main pump dimensions are compatible with DIN 24256 (ISO 2858).
- ▶ Single Entry, Closed Type impeller is used.
- ▶ Radial vanes are used behind the impellers to lower the pressure and to balance the thrust (axial force).
- ▶ The pump and the motor are connected by means of a flexible coupling on a common base plate.
- ▶ Maintenance of the pump is very easy.
- ▶ The shaft and the other rotating parts can be removed without dismantling the suction and the discharge system.
- ▶ Since the pump uses many standard parts, spare parts are readily available.
- ▶ These pumps are designed so that there is no need for external cooling.
- ▶ Due to natural convection the pump temperature decreases towards the roller bearing.



**Model : WMRP**



## OPERATING RANGE

- ▶ Capacity : 10 to 400 m<sup>3</sup>/hr
- ▶ Head : 5 to 100 mtr
- ▶ Discharge Size : Dn 32 to 100 mm
- ▶ Suction Flange : NB 40 to NB 125
- ▶ Temperature : 100 to 350°C
- ▶ Speed : 1500 to 3000 rpm
- ▶ Pressure : 16 Kg/cm<sup>2</sup>

# High Flow Low Head / Mix Flow Pump

## FEATURES

These are end suction single stage, horizontal shaft, volute type pumps. These pumps operate at 50 Hz. Suitable for coupling with electric motors, I.C. Engines either directly or through belt drives/gear box.

## ADVANTAGES

- ▶ Sea Water
- ▶ Effluent Treatment Plant
- ▶ De-Watering Application

## OPERATING RANGE

- ▶ Capacity -Q- : up to 7,000 m<sup>3</sup>/hr
- ▶ Head – up to : 30 MLC
- ▶ Pump Size – DN : up to 650 mm



**Model : MRP-MF**

# Centrifugal Process Pump

## 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



**Model : MRP-CP**

## OPERATING RANGE

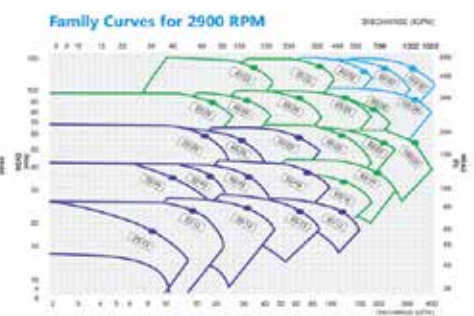
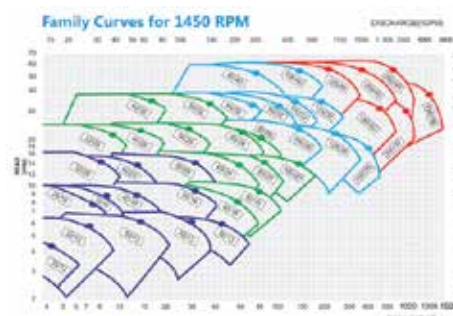
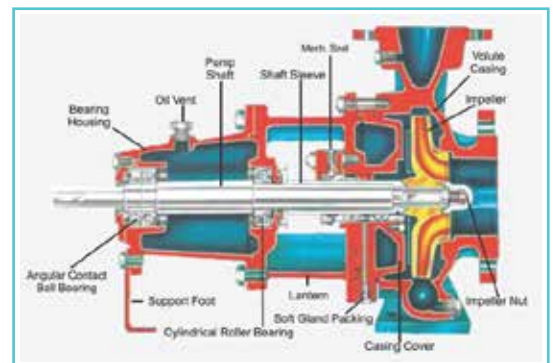
- ▶ Capacity -Q- : up to 1100 m<sup>3</sup>/hr
- ▶ Head : up to 150 MLC
- ▶ Pump Size -DN : 25 mm to 300 mm
- ▶ Speed -N-: 960/1450/2900 rpm at 50 Hz,
- ▶ 1150/1750/3500 rpm at 60 Hz
- ▶ Temperature : up to +350°C max.

## MATERIAL OF CONSTRUCTION

- |                         |                      |
|-------------------------|----------------------|
| ▶ Graded Grey Cast Iron | ▶ Carbon Steel(WCB)  |
| ▶ Alloy Steel           | ▶ CF8                |
| ▶ CF8M                  | ▶ Bronze             |
| ▶ CF3M(SS-316L)         | ▶ Alloy 20           |
| ▶ CD4MCU                | ▶ Nickle & Ni-Alloys |
| ▶ Ni-Resist             | ▶ 2-1 niCl           |
| ▶ R55                   | ▶ Hasteloy- B/C      |

## APPLICATION

- |  |                            |
|--|----------------------------|
| ▶ Chemical Process Industries              | ▶ Fire Fighting            |
| ▶ Fertilizer Plants                        | ▶ Power, Steel             |
| ▶ Bulk Drugs and Pharmaceutical            | ▶ Volatile Liquids         |
| ▶ Heating and Air Conditioning Plants      | ▶ Oil Extraction and Waste |
| ▶ Sugar Plants                             | ▶ Hot Water                |
| ▶ Water Supply                             |                            |
| ▶ Pulp and Paper                           |                            |
| ▶ Cement                                   |                            |
| ▶ Agriculture, Textile                     |                            |
| ▶ Jet Dyeing                               |                            |
| ▶ Organic and Inorganic Liquids Refineries |                            |
| ▶ Dyes & Intermediates                     |                            |
| ▶ Effluent Treatment Plants                |                            |
| ▶ Cooling Tower                            |                            |



# Centrifugal End Suction Pump

## 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.



**Model : MRP-CPE**

## OPERATING RANGE

- ▶ Capacity -Q- : up to 42 m<sup>3</sup>/hr
- ▶ Head : up to 46 MLC
- ▶ Pump Size – DN : 25 to 300 mm
- ▶ Speed -N- : 1450/2900 rpm at 50 Hz & 3500 rpm at 60 Hz
- ▶ Temperature : up to +350° max.

## MATERIAL OF CONSTRUCTION

- ▶ 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.

# Vertical Inline Centrifugal Pump

## OPERATING RANGE

- ▶ Head Range : up to 45 mtr
- ▶ Capacity Range : up to 2000 rpm
- ▶ Sealing Arrangement : Mechanical Seal
- ▶ Operating Temperature : up to 70°C
- ▶ Rating : 0.75 kW to 15 kW (2 Pole)
- ▶ Supply System : 3 0 – 380 / 415 Volts – 50 / 60 Hz – A.C.
- ▶ Insulation : Class B / F
- ▶ Protection : IP 44 / 55
- ▶ Enclosure : Totally Enclosed Fan Cooled (TEFC)
- ▶ Rotor Type : Squirrel Cage Rotor (SCR)
- ▶ Operational Duty : S1
- ▶ M.O.C. : Grey Cast Iron, Bronze, Stainless Steel SS 316/304
- ▶ Custom-built Design : Motors with different supply voltage and supply



**Model : MRP-VIP**

## APPLICATION

- ▶ Industrial Usage such as Cooling, Heating, Circulating, Boosting, Refrigeration, Air Conditioning and Cold Storage Systems.
- ▶ Agriculture Usage such as General Irrigation, Sprinkler Irrigation and De-watering Systems.
- ▶ Civil Usage such as Water Supply Schemes for Buildings, Hotels & Commercial Complexes.
- ▶ To Handle Clean as well as Moderately Aggressive Liquids.

## FEATURES

- ▶ Vertical, Centrifugal, Monoblock (unibuilt) type pump fitted with single stage closed Impeller in Volute Casing having In-Line suction and delivery.
- ▶ Can be made available in Close-Coupled design also.

# Slurry PUMPS

## APPLICATION

- ▶ Slurry pumps are used widely throughout the beneficiation section of the mining industry where most plants use wet separation systems. These systems usually move large volumes of slurry through the process.
- ▶ Slurry pumps are also widely used for the disposal of ash from fossil fuel power plants. Other areas where slurry pumps are used include the manufacture of fertilizers, land reclamation, mining by dredges, and the long distance transportation of coal and minerals.
- ▶ Increased global focus on the environment and energy consumption will certainly generate much wider uses for slurry pumping in years to come.



**Model : MRP-SP**

## OPERATING RANGE

- ▶ Range : 3" to 12" (75 mm to 300 mm)
- ▶ Capacity : 10,000 gpm (2275 m<sup>3</sup>/hr)
- ▶ Head to : 240 ft (73 m)
- ▶ Pressures to : 150 psi (1,035 kPa)

## FEATURES

Makes maintenance quick and easy. Replacement of wearing parts can be done in the field. With the two parts casing, it is possible to replace the worn front cover without changing the complete casing.

# Sewage Mud Pump

## APPLICATION

- ▶ Effluent and Sewage Treatment Plant
- ▶ Petroleum Product Handling
- ▶ Incinerator
- ▶ Agriculture Purpose
- ▶ De-watering Purpose
- ▶ Swimming Pools
- ▶ Loading and Transfer Of Oil
- ▶ Re-rolling Mills
- ▶ Pits
- ▶ Rain and Storm Water
- ▶ Thermal Plant
- ▶ Steel Plant
- ▶ Slurry Material Handling
- ▶ Mud
- ▶ Marine
- ▶ Hotel
- ▶ Spirits
- ▶ Filter Press
- ▶ Trenches
- ▶ Construction Sites
- ▶ Chemicals



**Model : MRP-MP**

## MATERIAL OF CONSTRUCTION

- ▶ Cast Iron
- ▶ Alloy Steel
- ▶ CE8M
- ▶ Carbon Steel(WCB)
- ▶ CFO
- ▶ Bronze

## OPERATING RANGE

- ▶ Capacity -Q- : up to 650 m<sup>3</sup>/hr
- ▶ TDH H- : up to 50 mtr
- ▶ Pump Size - DN : 40 mm to 200 mm
- ▶ Speed -N- : 1440/2880 rpm at 50 Hz & 1750/3600 rpm at 60 Hz
- ▶ Temperature : Ambient

# High Pressure Multistage Pump

## 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.



**Model : MRP-HPMD**

## MATERIAL OF CONSTRUCTION

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

## ADVANTAGES

- ▶ 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.

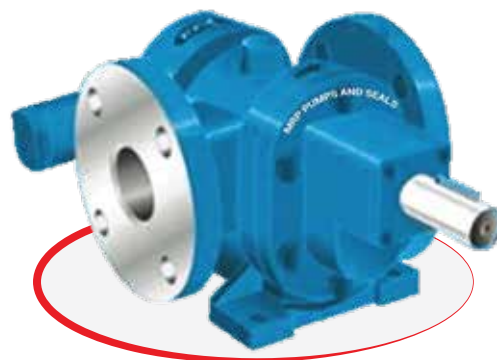
## OPERATING RANGE

- ▶ 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>

# Multi Purpose Rotary Gear Pump

## APPLICATION

- ▶ 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.



**Model : MRP-GP**

## MATERIAL OF CONSTRUCTION

- ▶ Cast Iron
- ▶ Alloy Steel
- ▶ CE8M
- ▶ Carbon Steel (WCB)
- ▶ CF8M
- ▶ Bronze

## 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>

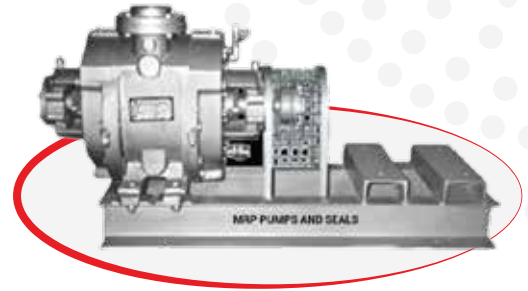
## FEATURES

- ▶ 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.

# Single Stage Liquid Ring Vacuum Pump

## FEATURES

- ▶ Can be supplied with accessories like mechanical seal, Corrosion Resistant Coatings, Water Reticulation System, Special Type Couplings, Exhaust Silencer for specific application.
- ▶ Simple & Rugged Construction
- ▶ Trouble free Operation
- ▶ Easily handle dust laded Gases



**Model: MRPSLVP**

## CAPACITY

- ▶ 49 m<sub>3</sub>/hr to 2080 m<sub>3</sub>/hr

## MATERIAL OF CONSTRUCTION :

Graded Cast Iron, Stainless Steel grade SS 304, SS 316, SS 316L, Bronze & combination of the same as required.

## APPLICATION

- ▶ Dehydration & Filtration processes
- ▶ Distillation, Evaporation & Drying
- ▶ Deodorization & Evacuation
- ▶ Sterilizing & Conveying
- ▶ Venting & Sucking

## Technical Specifications

Pump Model	Max. Cap. (m <sup>3</sup> /hr)	Water Req'd. (LPM)	Rec. Motor HP/Speed
MRPSVP-49/3	49	7	3/2850
MRPSVP-81/5	81	9	5/2850
MRPSVP-123/7.5	123	14	7.5/2850
MRPSVP-165/7.5	165	16	7.5/1450
MRPSVP-220/10	220	20	10/1450
MRPSVP-330/15	330	30	15/1450
MRPSVP-440/20	440	40	20/1450
MRPSVP-725/30	725	60	30/980
MRPSVP-1080/40	1080	100	40/980
MRPSVP-1500/65	1500	150	65/725
MRPSVP-2080/90	2080	200	90/725

\*We reserve the right to change the specifications without prior notice

# Centrifugal Monoblock Pump

## APPLICATION

- ▶ Industrial Usage such as Cooling, Heating, Circulating, Boosting, Refrigeration, Air Conditioning and Cold Storage Systems.
- ▶ Agriculture Usage such as General Irrigation, Sprinkler Irrigation and De-watering Systems.
- ▶ Civil Usage such as Water Supply Schemes For Buildings, Hotels and Commercial Complexes.
- ▶ To Handle Clean as well as Moderately Aggressive Liquids.



**Model : MRP-MPP**

## OPERATING RANGE

- ▶ Head Range : up to 88 meter
- ▶ Capacity Range : up to 4000 LPM
- ▶ Sealing Arrangement : Mechanical Seal / Gland Packing
- ▶ Operating Temperature : up to 70° C
- ▶ Rating : 0.75 kW to 22.5 kW (2 Pole)
- ▶ Supply System : 3 Ø – 380 / 415 Volts – 50 / 60 Hz – A.C.
- ▶ Insulation : Class B / F
- ▶ Protection : IP 44 / 55
- ▶ Enclosure : Totally Enclosed Fan Cooled (TEFC)
- ▶ Rotor Type : Squirrel Cage Rotor (SCR)
- ▶ Operational Duty : S1
- ▶ M.O.C. : Grey Cast Iron, Bronze, Stainless Steel SS 316/304
- ▶ Custom-built Design : Motors with different supply voltage and supply frequency can be offered on request.

## FEATURES

- ▶ Horizontal, Centrifugal, Monoblock (pump & motor have been combined to form a single unit) type pump fitted with single stage closed Impeller in Volute Casing having axial end suction and vertical centerline delivery.
- ▶ No fear of motor burning due to wide operating voltage range and Non-overloading power characteristics at any operating point.
- ▶ Advantage of mounting space saving due to elimination of base plate, coupling and coupling guard.

# Horizontal Single Stage Side Suction Pump

## 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.



**Model : MRP-HSSP**

## OPERATING RANGE

- ▶ Capacity : upto 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>

## APPLICATION

- ▶ 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.

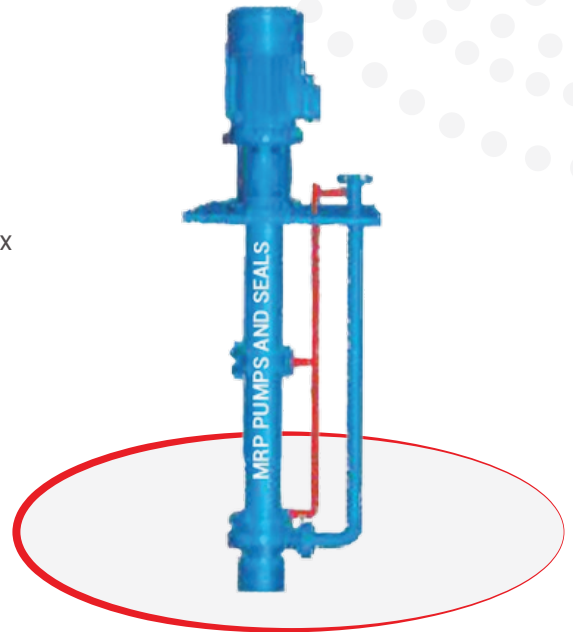
## MATERIALS :

- ▶ SSS-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...

# Vertical Long Shaft Sump Pump

## FEATURES

- ▶ Designed to meet specific lengths & application requirements.
- ▶ Base plate designed to meet existing 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.



**Model : MRP-VLSP**

## OPERATING RANGE

- ▶ Capacity : upto 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

## APPLICATION

- ▶ 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...

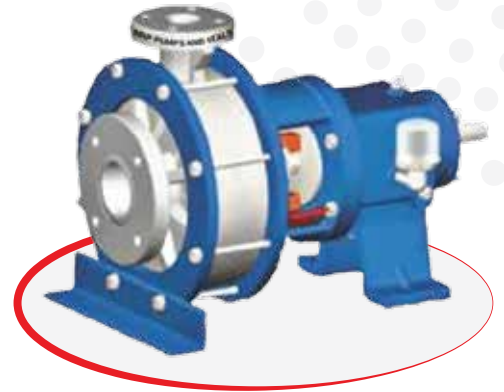
## MATERIALS :

- ▶ SSS-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...

# Polypropylene Corrosion Resistant Centrifugal Pump

## 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 PP, PPCP, UHMWPE compatibility of the liquid to be handled.



**Model : MRP-PP**

## OPERATING RANGE

- ▶ Capacity : upto 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>

## APPLICATION

- ▶ 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> , Ci<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 :

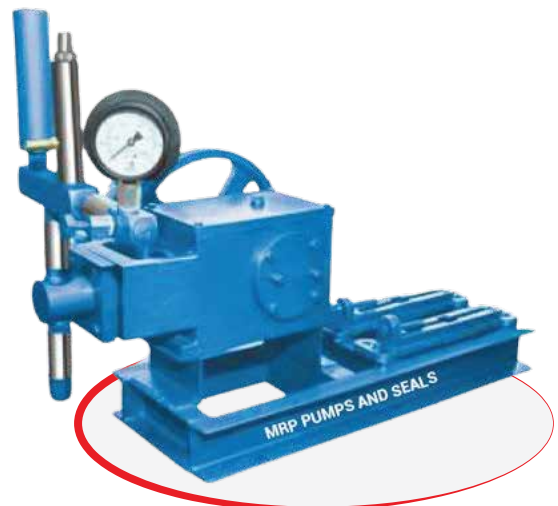
- ▶ PP, PPCP, UHMWPE

# Motorised Hydraulic Test Pump

## Applications :

- ▶ Hydrostatic Pressure Testing of Pressure Vessels,
- ▶ Casting, Tubes & Valves
- ▶ Boiler Feed
- ▶ High Altitude Pumping
- ▶ Circulating Water Under Pressure

**The Motorised Hydraulic Test Pumps are Portable type and can be easily Operate**

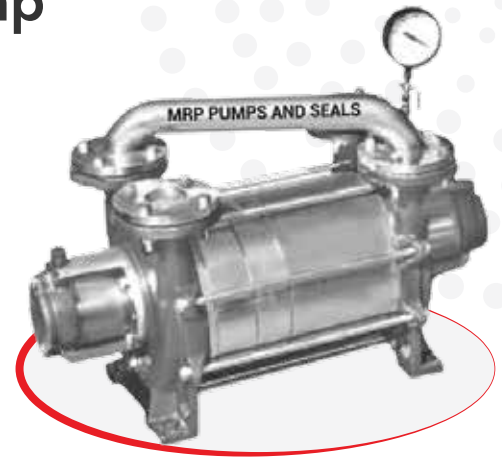


**Model : MRP-MHTP**

# Two Stage Liquid Ring Vacuum Pump

## FEATURES

- ▶ Simple & robust construction.
- ▶ Efficient performance compared to single stage vacuum pump.
- ▶ Energy saving with low power & less water requirement.
- ▶ Suitable vacuum range for number of process applications.
- ▶ Can be supplied with accessories like mechanical seal, corrosion resistant coatings. As a backup pump for mechanical booster in vacuum system, water reticulations system, exhaust silencer special type couplings for specific application.



**Model : MRP-TLVP**

## INDUSTRIES SERVED

- ▶ Chemical & Pharma Industries
- ▶ Process Plants & Lab Purpose
- ▶ Bio-Diesel Plants & Distilleries
- ▶ Oil Refining & Dairy Industries

## APPLICATIONS

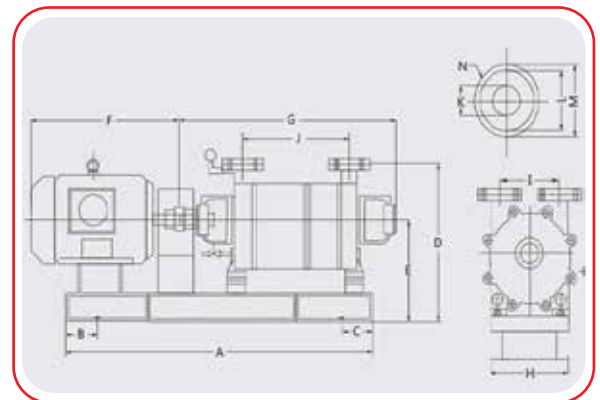
- ▶ Dehydration & Filtration
- ▶ Deodorization & Evaporation
- ▶ Distillation & Sterilization
- ▶ Venting & Sucking
- ▶ Exhausting & Extrusion

## CAPACITY

- ▶ 30 m<sup>3</sup>/hr to 1000 m<sup>3</sup>/hr

## Technical Specifications :

PUMP MODEL	MAX. CAP.	WATER REQD. (LPM)	REC. MOTOR
	(M <sup>3</sup> /HR)		
MRPTVP-2	30	05	2/2850
MRPTVP-5	85	07	2/1450
MRPTVP-7	16	09	7.5/1450
MRPTVP-10	200	14	10/1450
MRPTVP-15	300	20	15/1450
MRPTVP-20	400	24	20/1450
MRPTVP-20(s)	460	24	20/1450
MRPTVP-25	580	30	25/1450
MRPTVP-30	680	40	30/1450
MRPTVP-40	980	50	40/1450



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
MRPTVP-5	900	150	150	485	320	385	615	275	200	270	40	98	138	4x14
MRPTVP-7	1000	150	150	485	320	470	705	275	200	370	40	98	138	4x14
MRPTVP-10	1100	150	150	598	368	508	785	320	235	465	50	126	165	4x14
MRPTVP-15	1250	125	125	568	368	625	1020	320	235	575	50	126	165	4x14
MRPTVP-20	1450	125	125	568	368	625	1020	320	235	720	50	126	165	4x14
MRPTVP-25	1500	150	150	590	370	647	986	340	240	566	65	145	186	1x18
MRPTVP-30	1500	150	150	590	370	720	1020	340	240	600	65	145	186	4x18
MRPTVP-40	1780	140	140	685	325	785	1225	400	250	735	75	165	200	4x17

# Progressive Cavity Screw Pump

## 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.
- ▶ Pharmaceuticals, Cattle Feed, Brewery & Distillery, Power



**Model : MRP-PCSP**

## 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 and Rubber.
- ▶ Construction, Manmade Fibers, Fisheries, Oil Exploration.
- ▶ Dairies, Winery, Food & Beverages, Abattoir & Meat Processing.
- ▶ Plantations, Fruit Processing, Dye Stuff, Textiles.

## 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>

## Material of Construction

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

# Vertical Seal / Gland less Pump

## 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 facilities 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.



**Model : MRP-V-GLP**

## 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  $NH_3$ ,  $CO_2$ ,  $SO_2$ ,  $SO_3$ ,  $I_2$ ,  $F_2$ ,  $Br_2$ ,  $Cl_2$ , 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.

## Material

PP, PPCP, UHMWPE

## 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>

# High Pressure Triplex Plunger Pump

## Applications

- ▶ Chemical Injection
- ▶ Hydro Jetting and Cutting
- ▶ Cement Grouting
- ▶ Detergent Slurry
- ▶ Hydrostatic Testing
- ▶ Salt Water Injection
- ▶ Boiler Feed
- ▶ Reverse Osmosis
- ▶ Mechanical Separation
- ▶ Process Water Disposal
- ▶ Ammonia Scrubber & many other applications



**Model : MRP-HPTP**

## Power End

For each Ronak Pumps, the POWER END is engineered out of selected materials and it is designed for the rated horsepower.

### 1. CRANK CASE

The crank case is of sturdy design, completely sealed and made out of C.I.

### 2. CONNECTING ROAD

Accurately machined, self lubricated connecting road are machine out of the high grade material.

### 3. CROSS HEAD

Large, full piston type Crosshead ensures accurate plunger alignment and also minimizes side thrust.

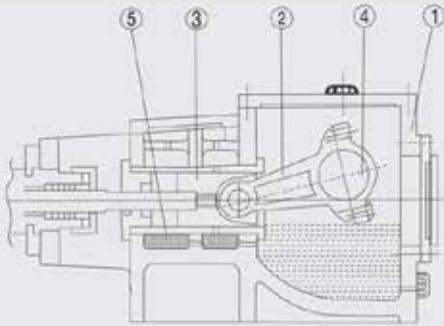
### 4. CRANK SHAFT

Heavy duty accurately machined crank shaft is made out of alloy steel with hardening and grinding.

### 5. LUBRICATION

Unique design ensure combined pressure lubrication which provides on crank shaft & cross-heads.

High quality taper roller bearings are used. internal, to provide support to the crank shaft – at both ends.



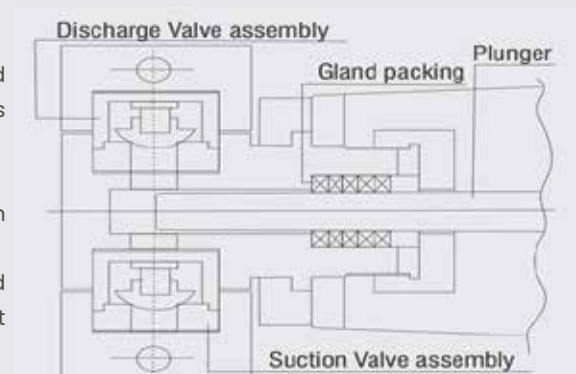
## Liquid End

For each MRP Pump the LIQUID END is painstakingly crafted. MRPVPL also offer liquid ends which are tailor made out of a variety of corrosion and fatigue resistant materials exactly conforming to a customer's particular needs.

### NOTES :

Parts consisting of special materials. such as alloy 20, monel, hastelalloys etcetra can be specially manufactured against specific needs.

Facilities are available to supply ceramic coated or hardchrome plated or nitrided plungers. Gland packing, flushing. cooling lubricaiton can also be provided against specific orders





Triplex Metering Plunger Pump is also available.

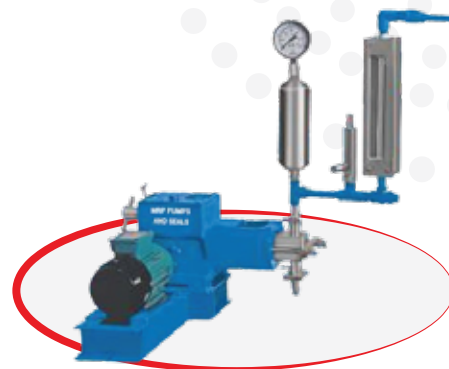
## Capacity Section Chart

Model	Plunger Diameter	Discharge Pressure	Flow Rate In LPM At Standard Stroke Per Minute				
			(mm)	(kg/cm <sup>2</sup> )	100	150	200
<b>MRPHPTP - 2500</b>	10	700	0.60	0.89	1.27	1.90	2.60
	15	340	1.45	2.15	2.90	4.30	5.80
	20	105	2.50	3.75	5.00	7.50	10.00
	25	125	4.00	6.00	8.00	12.00	16.00
	30	100	5.30	8.00	10.70	16.15	21.53
<b>MRPHPTP - 4000</b>	20	350	3.5	5.00	7.00	10.00	13.00
	25	220	5.0	8.00	10.00	16.00	21.00
	30	150	7.5	11.00	15.00	22.00	30.00
	35	110	10.5	15.50	21.00	31.00	42.00
	40	85	13.5	20.00	27.00	40.00	54.00
<b>MRPHPTP - 5000</b>	25	440	7.0	11.00	14.00	22.00	29.00
	30	300	10.5	15.50	21.00	31.00	42.00
	40	170	18.5	27.50	37.00	55.00	74.00
	50	100	29.00	43.50	58.00	87.00	116.00
	55	90	35.5	53.00	71.00	106.00	142.00
<b>MRPHPTP - 7000</b>	30	500	13.0	20.00	26.00	40.00	53.00
	40	270	23.5	35.50	47.00	71.00	95.00
	50	180	37.00	55.50	74.00	111.00	148.00
	55	150	45.00	67.50	90.00	135.00	180.00
	60	120	53.00	79.00	106.00	158.00	212.00
<b>MRPHPTP - 10000</b>	50	300	53.00	79.00	106.00	158.00	212.00
	60	235	76.00	114.00	152.00	228.00	304.00
	65	198	90.00	135.00	180.00	270.00	360.00
	70	170	103.50	155.00	207.00	310.00	414.00
	75	150	119.00	178.50	238.00	357.00	476.00
<b>MRPHPTP - 20000</b>	80	132	135.00	202.50	270.00	405.00	540.00
	62	200	162.00	243.00	325.00	-	-
	82	180	316.00	474.00	633.00	-	-
	102	160	440.00	660.00	880.00	-	-
	120	150	610.00	915.00	1220.00	-	-

# Metering Dosing System Plunger Diaphragm Pump

## 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.



**Model : MRP- MDP**

## APPLICATIONS

- ▶ All Kinds of Acids, Flammable Liquids.
- ▶ Corrosive Liquids, Costly Liquids.
- ▶ Soda, Hypochlorite, Ceramic Slurry,
- ▶ Hazardous Acids, Aggressive Liquids.
- ▶ Food Products

## OPERATING RANGE

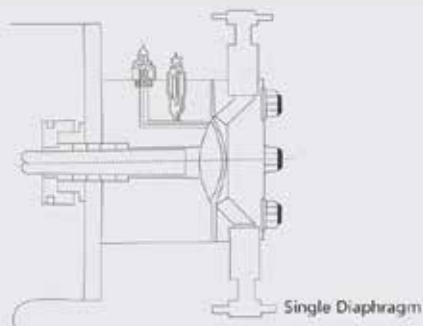
- ▶ **Capacity** : Up to 7000 LPH
- ▶ **Pressure** : Up to 100 kg/cm<sup>2</sup>

## Material

- ▶ 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

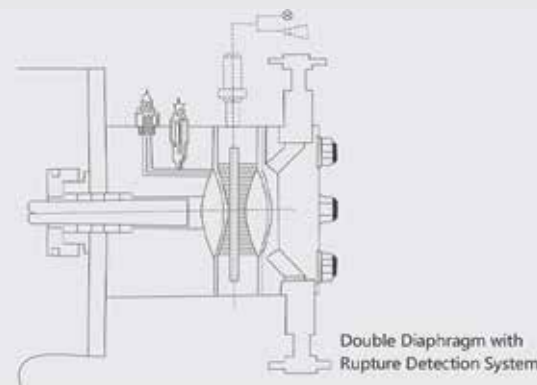
## Diaphragm Metering Pumps

MRP Pumps offer a comprehensive range of hydraulically flexed diaphragm metering pumps for all gear size with capacity range of a few cc/hr to well over 7000 LPH with a maximum discharge pressure of 100 kg/cm<sup>2</sup>. These are hermetically sealed pumps as the plunger packing works in a safe and pure hydraulic fluid & rugged diaphragm (S) separate the hydraulic fluid from the metered fluid. The double diaphragm and sandwiched diaphragm design-with diaphragm rupture indicator prevents contamination metered fluid by the hydraulic fluid should one of the diaphragm ruptures.



## The Advantages :

- ▶ Hermetically Sealed
- ▶ Relief valve & Replenishing valve in hydraulic circuit
- ▶ Relatively better to resistant to fouling
- ▶ Long working life due to PTFE diaphragm & gentle flow against the diaphragm (S)



# Metering Plunger Pump

## 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.



**Model : MRP-MPP**

## APPLICATIONS

- ▶ Polyelectrolyte Dosing, Caustic Dosing.
- ▶ Boiler Chemicals Dosing, Pressure Testing.
- ▶ Dosing & Transfer Of Viscous Products Like Cream.
- ▶ Syrup etc., Atomising of Liquids etc.

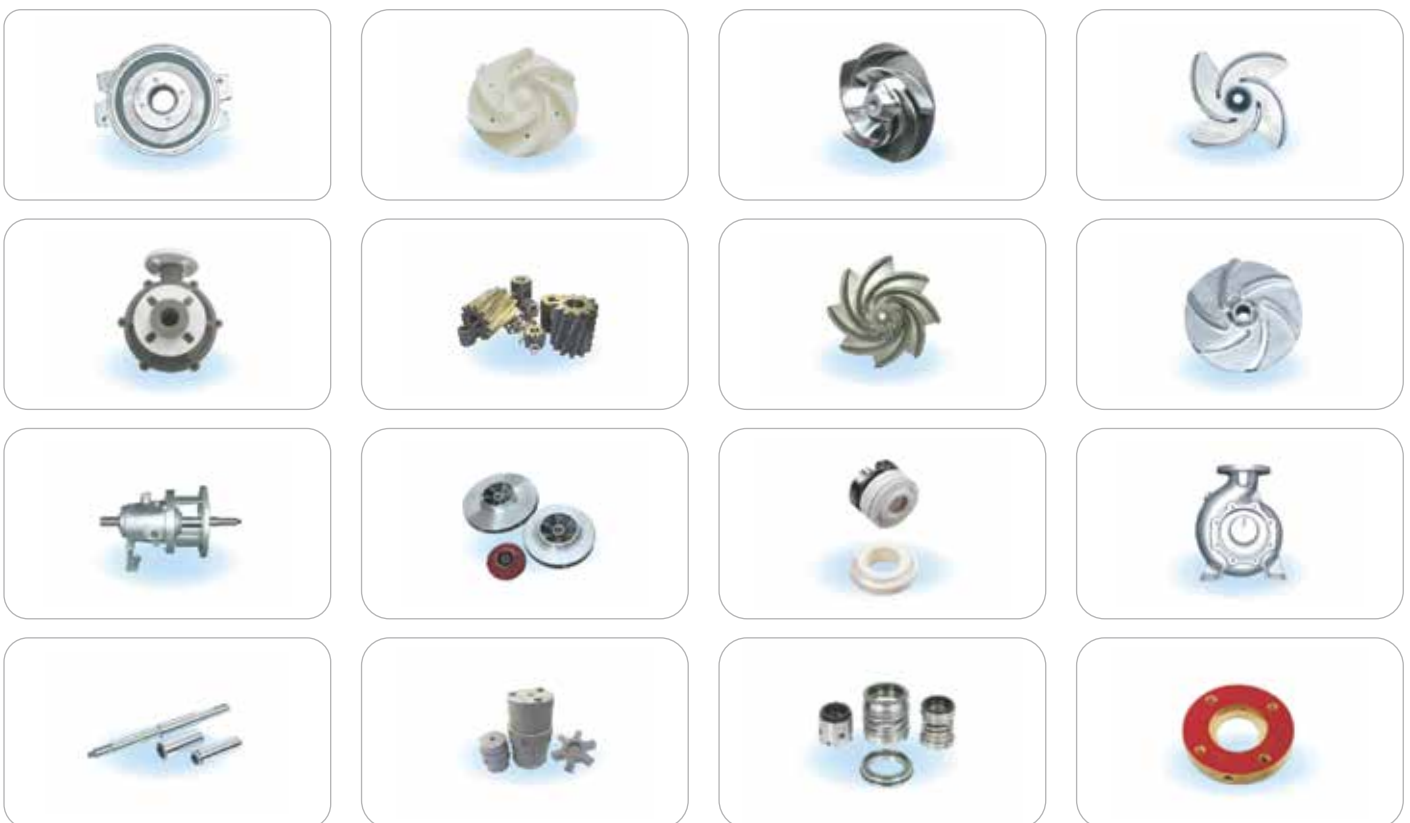
## OPERATING RANGE

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

## Material

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

# Pumps Spare



# Industries We Serve



Food & Beverages



Oil & Gas



Paper & Pulp



Steel Production



Sugar Manufacturing



Coal & mining



Building & Construction



Water & Waste Water Treatment



Water Distribution



Cement Manufacturing



Effluent Treatment



Thermal Power Plant



Textiles Industries



Nuclear Power Plant



Flood Control Industries



Tire Manufacturing



Cosmetic & Medical



Ceramic & Insulator



Fruit & Vegetables



Paint Industries

# Our Valuable Clients




# MRP PUMPS AND SEALS

Manufacturer & Supplier



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