

Pumping Solutions for a Promising Future



Enduring Quality and Trust

RONAK PUMPS AND VALVES PVT. LTD.

An ISO 9001:2008 Certified Company



Enduring Quality and Trust



ABOUT US

Ronak Pumps and Valves Pvt. Ltd. is a company which excels in manufacturing Chemical Process Pumps of top quality. Founded by *Mr. Pravin S. Patel* in 1997, the company rides on the immense knowledge and experience accumulated by *Mr. Pravin* in his 10 year-long presence in the same industry.

The company further banks upon the tactical location at the well-organized industrial area of Kathwada, Ahmedabad which accounts for big industrial foundation in the country. Its connectivity through roadways and air network ensures a free flowing business channel.

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

QUALITY POLICY

Our quality policy reflects the company's commitment towards ethical business practices and customer satisfaction. *Mr. Pravin S. Patel* leads his efficient team with over 10 years of experience under his belt in Industrial Pumps. A perfect mix of young and energetic as well as experienced and passionate professionals ensures utmost customer service and satisfaction.

OUR MISSION

Ronak Pumps and Valves Pvt. Ltd. has the primary mission of customer orientation and we fulfil it through:

- Rendering quick and efficient service to all our customers.
- Maintaining healthy business relations with all our customers.
- Offering best possible technical help as per individual customer needs with appropriate, true & honest information on available variants.
- Offering best possible competitive rates & commercial terms.
- Supplying materials in original pack sealed by the company, thereby ensuring exact quality and quantity of the material.



Model: KRPP

AIR COOLED PUMPS

Advantages

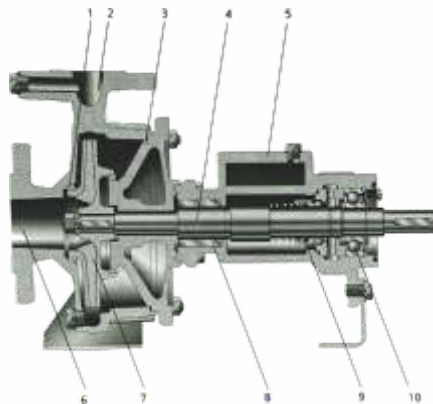
- Standard Motor Insulation & Bearings
- Bearing Environment At Lower Temperatures
- Secondary Containment
- Eliminates The Concern Of Fouling Caused By Poor Water Quality
- Bearing Wear Monitors Available

Operating Range

- Capacity -Q- : up to 300 m³/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



Features

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: RMFP

HIGH FLOW LOW HPAD/MIX FLOW PUMP

Application

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

Operating Range

- Capacity -Q- : up to 7,000 m³/hr
- Head - up to : 30 MLC
- Pump Size - DN : up to 650 mm

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.



Model: RPCP

CENTRIFUGAL PROCESS PUMP

Applications

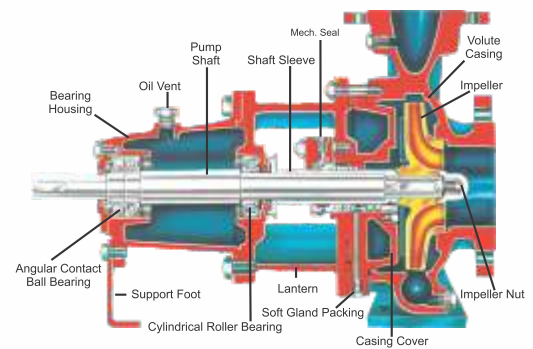
- Chemical Process Industries
- Fertilizer Plants
- Bulk Drugs and Pharmaceutical
- Heating and Air Conditioning Plants
- Sugar Plants
- Water Supply
- Pulp and Paper
- Cement
- Agriculture, Textile
- Jet Dyeing
- Organic and Inorganic Liquids Refineries
- Dyes & Intermediates
- Effluent Treatment Plants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

Operating Range

- Capacity - Q- : up to 1100 m³/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

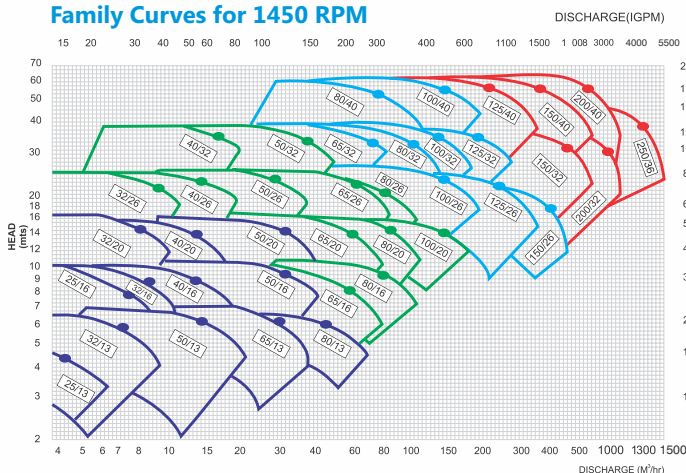
- Graded Grey Cast Iron
- Alloy Steel
- CF8M
- CF3M(SS-316L)
- CD4MCU
- Ni-Resist
- R55
- Carbon Steel(WCB)
- CF8
- Bronze
- Alloy 20
- Nickle & Ni-Alloys
- 2-1 niCl
- Hasteloy- B/C



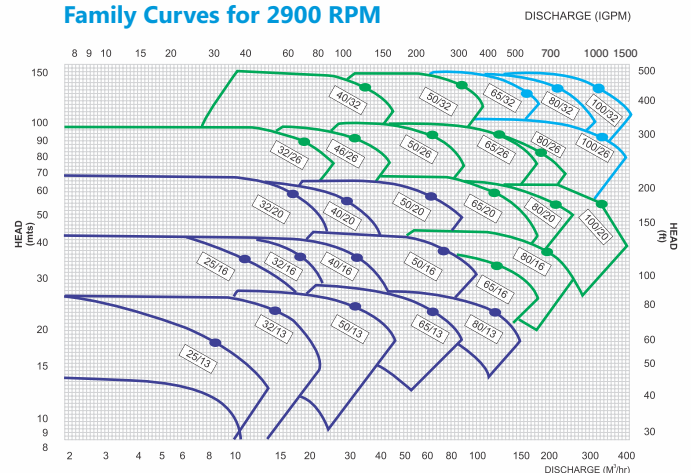
Features

- 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.

Family Curves for 1450 RPM



Family Curves for 2900 RPM



Bearing Frame Size	25	35	45	55
Optimum Point				

Model: RPCSP

CENTRIFUGAL END SUCTION PUMP

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.....

Operating Range

Capacity	: Up to 42 m ³ /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 ²

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.....

Model: RPMP

SEWAGE MUD PUMP

Applications

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

Operating Range

Capacity -Q-	: Up to 650 m ³ /hr
TDH H -	: Up to 50 mtr
Pump Size - DN	: 40 mm To 200 mm
Sped - N -	: 1440/2880 rpm at 50 Hz & 1750/3600 rpm at 60 Hz
Temperature	: Ambient

Material of Construction

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



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: RPGP

MULTI PURPOSE ROTARY GEAR PUMP

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...

Operating Range

Capacity	: Up to 195 m ³ /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 ²

Material of Construction

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

Model: RPHPM

HIGH PRESSURE MULTISTAGE PUMP

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.

Operating Range

Capacity	: Up to 75 m ³ /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 ²

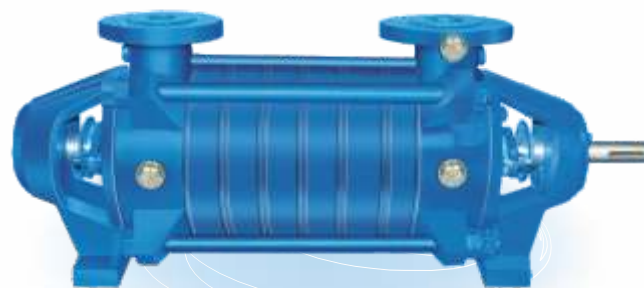
Material of Construction

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



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: RPTP

THERMAL HOT OIL PUMP WATER COOLED PUMP

Operating Range

Capacity	: 10 to 400 m ³ /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 ²

Material of Construction

Cast Steel



Features

- 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 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 pump are designed so that there is no need for external cooling
- Due to natural convection the pump temperature decreases towards the roller bearing.

Model: RPSP

PROGRESSIVE CAVITY SCREW PUMPS

Applications

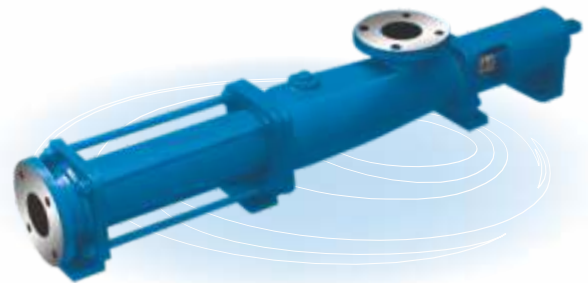
- Sewage Effluent & Water Treatment Plant.
- Sugar, Starch, Cement, Pulp & Paper Industries.
- Ceramics, Chemicals, Fertilizers, Soap & Detergents, Cosmetics.
- Paint, Varnish, Petrochemicals, Vegetable Oils, Mining, Steel and Rubber.
- Construction, Manmade Fibers, Fisheries, Oil Exploration.
- Pharmaceuticals, Cattle Feed, Brewery & Distillery, Power.
- Dairies, Winery, Food & Beverages, Abattoir & Meat Processing.
- Plantations, Fruit Processing, Dye Stuff, Textiles.

Operating Range

Capacity	: Up to 145 m ³ /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 ²

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...



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.

Model: RPPCP

POLYPROPYLENE CORROSION RESISTANT CENTRIFUGAL PUMPS

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_3 , SO_2 , 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.

Operating Range

Capacity	: Up to 295 m ³ /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 ²

Materials

PP, PPCP, UHMWPE

Model: RPGLP

VERTICAL SEAL/GLAND LESS PUMP

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_3 , SO_2 , 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.

Operating Range

Capacity	: Up to 55 m ³ /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 ²

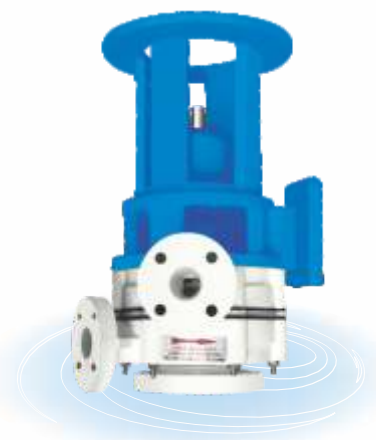
Materials

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.



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: RPSSP

HORIZONTAL SINGLE STAGE SIDE SUCTION PUMP

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.....

Operating Range

Capacity	: Up to 200 m ³ /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 ²

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.....

Model: RPVLSP

VERTICAL LONG SHAFT SUMP PUMP

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.....

Operating Range

Capacity	: Up to 300 m ³ /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 ²
Pump Length	: Up to 3 mtr

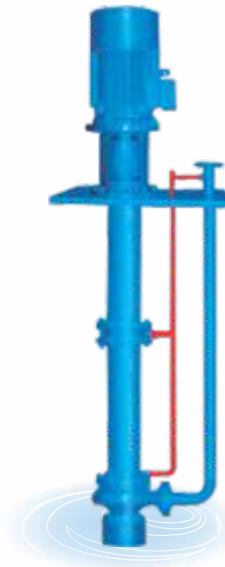
Materials

- 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.



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.

Model: RPCCP

CLOSE COUPLED CENTRIFUGAL PUMP

Applications

- 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.

Operating Range

Head Range	: up to 88 MLC
Capacity Range	: up to 4000 LPM
Sealing Arrangement	: Mechanical Seal
Operating Temperature	: up to 90° C
Power at Shaft	: up to 22.5 kW
Operating Speed	: 2900/3500 rpm
Operational Duty	: S1
M.O.C.	: Grey Cast Iron, Bronze, Stainless Steel SS 316/304
Custom-built Design	: Pumps with different operating speed & temperature can be offered on request.



Features

- Horizontal, Centrifugal, Close-Coupled type pump fitted with single stage closed Impeller in Volute Casing having axial end suction and Vertical centerline delivery.
- In-corporating Back-Pull-Out facility.

Model: RPCMP

CENTRIFUGAL MONOBLOCK PUMP

Applications

- 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.

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.

Model: RPVIP

VERTICAL INLINE CENTRIFUGAL PUMP

Applications

- 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.

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 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



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.

Model: RPSP

SLURRY PUMP

Applications

- 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.

Operating Range

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



Features

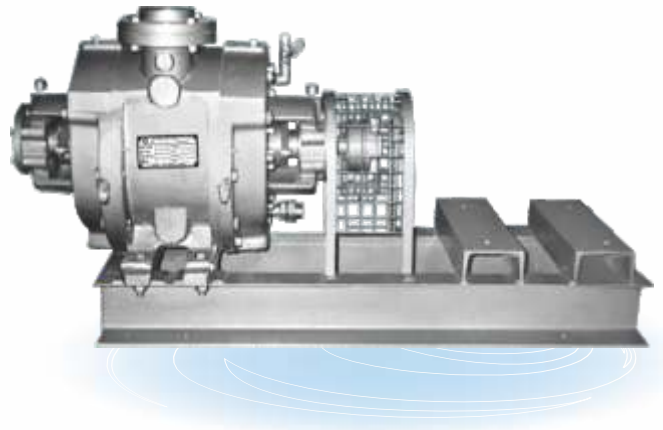
Makes maintenance quick and easy. Replacement of wearing parts can be done in the field. With the two parts casing, it is possible to replace the worn front cover without changing the complete casing.

Model: RPSVP

SINGLE STAGE LIQUID RING VACUUM PUMP

Applications

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



Capacity

49 m³/hr to 2080 m³/hr

Material of Construction

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

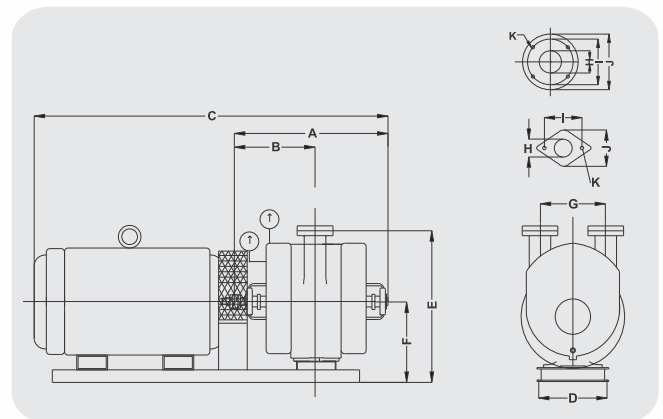
Features

- 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

Technical Specifications

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

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



MODEL	A	B	C	D	E	F	G	H	I	J	K
RPSVP-49	355	223	900	265	316	190	130	25	75	72	M10
RPSVP-81	410	229	900	265	350	230	130	32	90	85	M12
RPSVP-123	450	250	1100	265	350	230	130	40	100	95	M12
RPSVP-165	630	348	1200	265	580	360	200	60	120	150	4x15
RPSVP-220	665	365	1300	400	580	360	200	60	120	150	4x15
RPSVP-330	760	420	1400	400	615	375	200	80	150	190	4x18
RPSVP-440	830	455	1500	420	615	395	895	80	150	190	4x18
RPSVP-725	895	465	2100	420	790	460	895	125	200	240	8x18
RPSVP-1080	1035	565	2300	540	895	895	895	125	200	240	8x18
RPSVP-1500	1210	665	2500	895	895	895	895	200	280	320	8x18
RPSVP-2030	1360	740	2700	895	895	895	895	200	280	320	8x18

Model: RPTVP

TWO STAGE LIQUID RING VACUUM PUMP

Applications

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

Industries Served

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

Capacity

30 m³/hr to 1000 m³/hr

Material of Construction

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



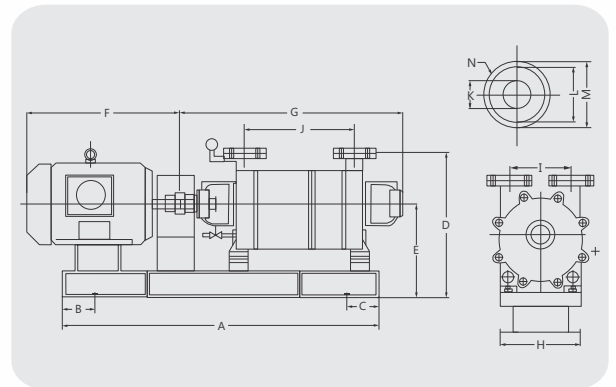
Features

- 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.

Technical Specifications

Pump Model	Max. Cap. (m ³ /hr)	Water Reqd. (LPM)	Rec. Motor HP/Speed
RPTVP-2	30	05	2/2850
RPTVP-5	85	07	5/1450
RPTVP-7	160	09	7.5/1450
RPTVP-10	200	14	10/1450
RPTVP-15	300	20	15/1450
RPTVP-20	400	24	20/1450
RPTVP-20 (S)	460	24	20/1450
RPTVP-25	580	30	25/1450
RPTVP-30	680	40	30/1450
RPTVP-40	980	50	40/1450

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



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

NOTE : The vacuum pump can be made for various process by combining it with a Booster. It can be operated with other liquids like low density oil coolant offering a maximum vacuum up to 740 mm hg.

Model: RPHPTP

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

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.

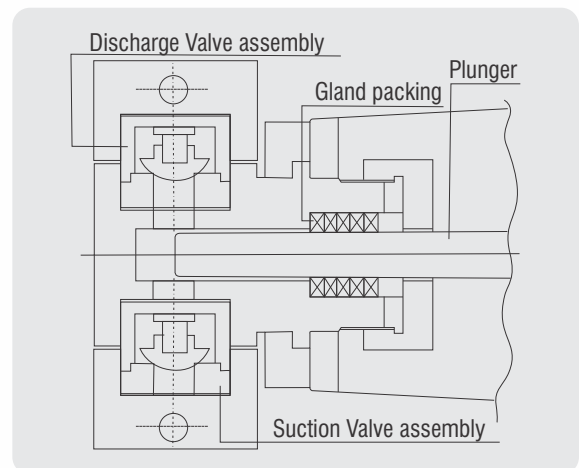
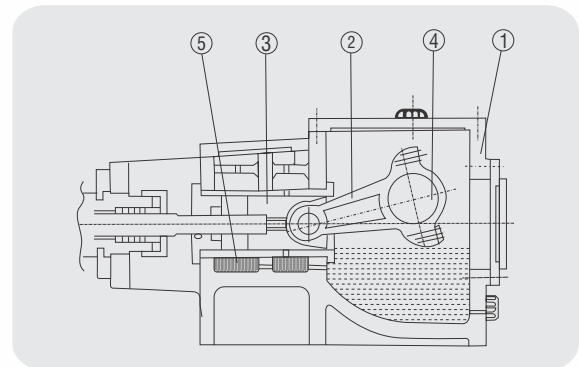
High quality taper roller bearings are used. internal, to provide support to the crank shaft - at both ends.

Liquid End

For each Ronak Pump the LIQUID END is painstakingly crafted. RPHPTP 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, hastelloys 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 Selection Chart

Model	Plunger Diameter	Discharge Pressure	Flow Rate In LPM At Standard Stroke Per Minute				
			(mm)	(kg/cm ²)	100	150	200
RPHPTP - 2500	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
RPHPTP - 4000	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
RPHPTP - 5000	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
RPHPTP - 7000	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
RPHPTP - 10000	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
RPHPTP - 20000	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	-	-

Model: RPMPP

METERING PLUNGER PUMP

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/cm²

Material of Construction

- SS-316, SS-316L, 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.

Model: RPMDP

METERING DOSING SYSTEM, PLUNGER & DIAPHRAGM PUMPS

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/cm²

Material of Construction

- 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

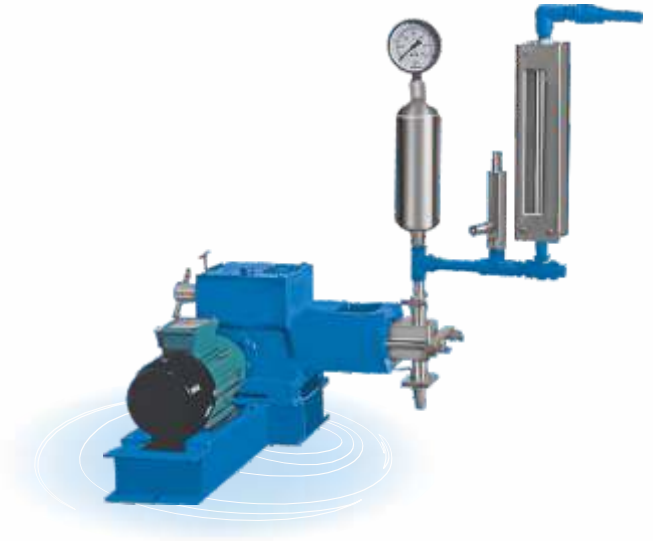
Ronak Pumps offer a comprehensive range of hydraulically flexed diaphragm metering pumps for all gear size with capacity range of a few cc/hr to well over 7000 LPH with a maximum discharge pressure of 100 kg/cm²

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 repute indicator prevents contamination metered fluid by the hydraulic fluid should one of the diaphragm ruptures.

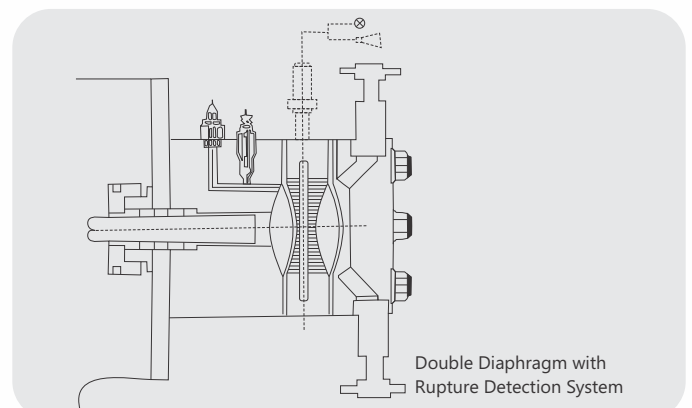
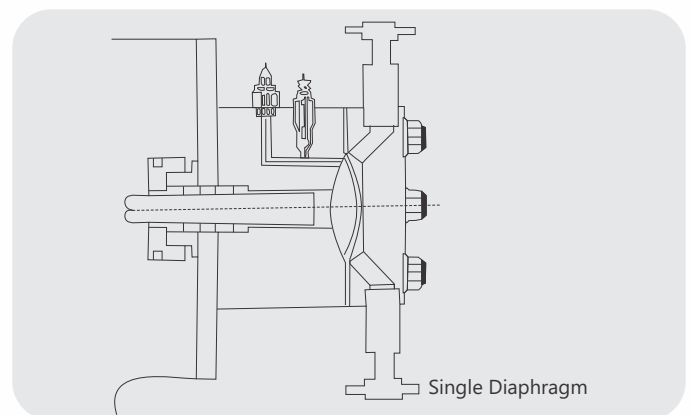
The Advantages

- 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)



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.

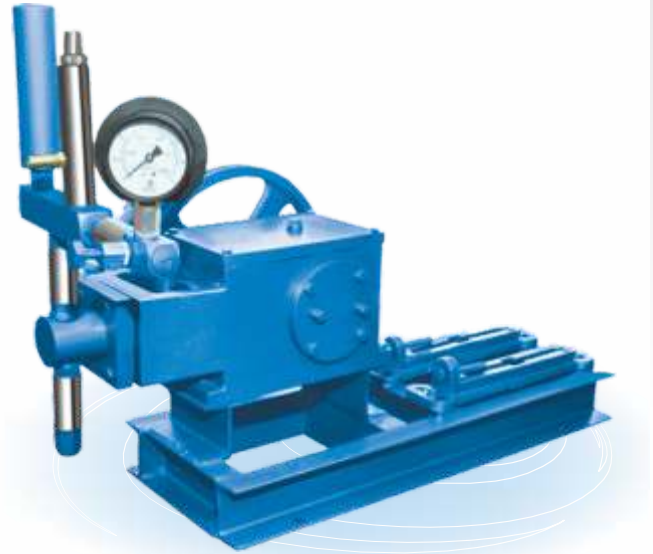


Model: RPMHTP

MOTORISED HYDRAULIC TEST PUMP

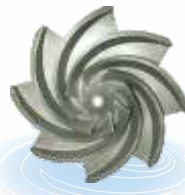
Applications

- 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.

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