

No.1 In Chemical Handling Corrosion Resistant Pump Technology

When you buy a Prochem Pump you can have your solution and pump it.

Prochem Pumps are utilised wherever conventional materials can only offer limited service life. The field of application ranges from general water supply to transfer of highly corrosive chemicals.

The Prochem pump is available as a close coupled or bare shaft end suction back pull-out design, as well as a vertical seal-less design.

All components coming in contact with the fluid handled are made from synthetic thermosetting corrosion and wear resistant materials.



Material Features:

- Broadest range of chemical resistance for a full operational coverage.
- Suitable for process temperatures from -20 to + 140 Degrees C.
- Excellent strength and hardness. Resists erosion in chemical slurries.
- Non sparking and non galling – Beneficial in solvent applications.
- Does not support bacterial growth and can be steamed sterilised.
- Low vibration and noise due to inherent attenuating properties of resin.
- Low cost when compared with exotic metals and advanced thermoplastics
- Relatively low mass reduces component weight.



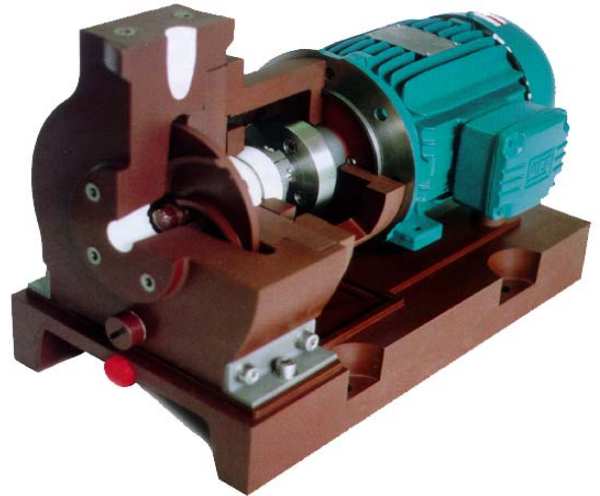
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CHEMICAL PUMP MANUFACTURERS

CRP Series CCH MkII

Features:

- Seal Chamber dimensioned to accept seals designed to DIN 24960.
- Resin Labyrinth installed in resin motor adaptor provides superior bearing and motor protection.
- All fasteners & non motor accessories in stainless for durability and serviceability.
- All product wetted parts manufactured from synthetic thermosetting resins, producing highest standards of corrosion resistance.
- Resin motor adaptor & baseplate prevent general pump part failure for reasons of environmental contamination.
- Split collar shaft mounting guarantees accurate and secure assembly during maintenance.
- 'Cast-on' resin shaft-sleeve for maximum corrosion performance of seal set.
- Open faced impeller with backvanes.
- Back pullout volute design assists with ease of servicing.
- Key pump dimensions to DIN 24256, Flange details to DIN 2533



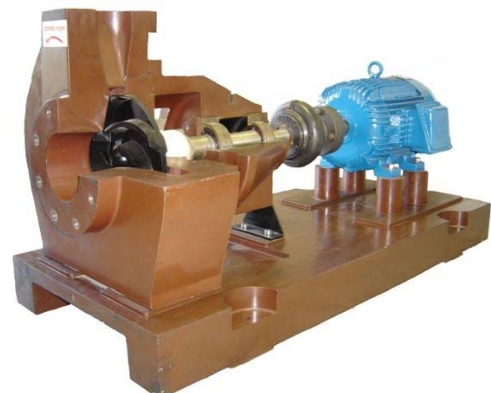
Construction:

The HCC Mark II Series are an end suction back – pullout design. All components coming into contact with fluid handled are made from thermosetting corrosion and wear resistant materials.

The CRP VS Series of Vertical Prochem Pumps are of seal – less design. All components coming into contact with the fluid handle are made from synthetic thermosetting corrosion and wear resistant materials. They are capable of dry running indefinitely and they require minimum maintenance and inspection. Suction lifts of up to 4.0 metres are attainable dependant upon product density, viscosity and temperature.

Present Industries Served:

- Agricultural Plant & Process
- Aquariums
- Brewing and Distilling
- Chemical Process
- Desalination Plants
- Electronic (PC Manufacture)
- Food & Beverage
- Fume Scrubbing
- Metal Finishing
- Paper and Pulp
- Perfumeries & Cosmetics
- Pharmaceutical
- Photographic Industry
- Precious Metal Refining
- Sea Water
- Steel and Wire Manufacturing
- Textile Manufacture & Process
- Water & Sewage Treatment



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Mechanical Seals:

The shaft seal of a chemical pump is, more often than not, found to be the weak link that limits pump service life. In recognizing this, and in understanding the factors that can affect seal performance, Prochem Pumps have provided a seal chamber design that is both functionally correct & versatile. Dimensioned in to suit seals with installation dimensions to DIN 24960, the intelligent use of the resin materials construction allows full advantage to be gained from an array of common seal configurations. The seals fitted as standard are supplied by an internationally respected sealing system manufacturer.

Standard Sealing Configurations:



Single Outside Seal



Single Inside Seal



Back to Back Double Seal



Cartridge Seal



CRP VS Vertical Spindle Pump:

The VS series vertical spindle pump has a specialised role in chemical pumping. The pump operates with its volute and impeller immersed directly into the fluid, and can therefore be the most convenient method of achieving NPSHr in challenging applications.

The absence of a mechanical seal means that the VS pump will operate without fluid, making it an ideal pump in situations where a continual supply cannot be guaranteed.

CRP VS Vertical Features:

- Heavy duty bearing sets consisting (upper) double row angular contact and (lower) roller ensure an excellent operating life.
- All wetted surface are manufactured from thermosetting synthetic resins – grade selected to suit the product being pumped.
- Pump supplied complete with mounting plate and discharge pipe (available in several materials).
- Double vapor seal and resin flinger provide superior protection for lower bearing.
- Selection of column lengths availability gives flexibility of applications in even the most challenging duties.
- Ceramic shaft support bushing available. External clean product flush can be provided for use in difficult duties.
- Open faced impeller configuration improves resistance to blockages.

