

Regent pumps

A U S T R A L I A

founded 1948

RPCRP Series

Corrosion Resistant Pumps

Chemical Plant

Desalination

Marine



..... all about moving fluids

RPCRP Series Corrosion Resistant Pumps

Material Features

- ❑ Broadest range of chemical resistance for full operational coverage
- ❑ Process temperature range from -20° C to 140° C
- ❑ Excellent strength and hardness – Resist erosion in chemical slurries
- ❑ Non-Sparking and non-galling – Beneficial in solvent applications
- ❑ Does not support bacterial growth and can be steam sterilized
- ❑ Relatively low mass reduces component weight
- ❑ Low vibration and noise due to inherent attenuating properties of resin

Typical applications

- ❖ Fume scrubbing
- ❖ Chemical manufacturing and processing
- ❖ Fertiliser manufacturing
- ❖ Metal refining
- ❖ Metal finishing
- ❖ Municipal recreation pools
- ❖ Desalination plants
- ❖ Aquaculture and marine aquariums



Pump Design

Manufactured to European DIN 24256. Open impeller with expeller (back pump -out) vanes to reduce the stuffing box pressure and to reduce the amount of solid ingress into the stuffing box, thus increase the life expectancy of the mechanical seal. Impeller is a bolt-on design and will not cause damage to the pump if run in the wrong direction. Heavy wall thickness on all components

- ✦ Seal Chamber Dimensioned to DIN 24960
- ✦ Resin labyrinth installed in resin motor adaptor (for Close Coupled Pump) provides superior bearing and motor protection
- ✦ For Close Coupled pump, a split collar shaft mounting provides excellent accuracy and secure assembly .
- ✦ “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

Materials of Construction

Pump Body

Synthetic thermosetting corrosion and wear resistant resin materials.

- ❖ Synthetic thermosetting with temperature grade from -20°C to +140°C
- ❖ Synthetic thermosetting with temperature grade from -20°C to +90°C

Shaft

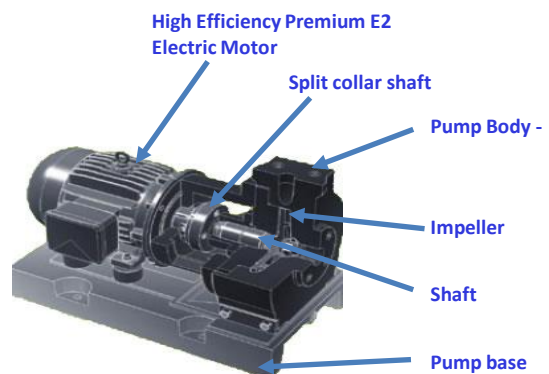
Stainless Steel SS316 with a “cast on” synthetic thermosetting resin sleeve.

Fasteners

Stainless Steel

Pump base

Synthetic thermosetting or Hi Dip Galvanised



Electric Motor

Premium E2 Efficiency, IP55 380~415V 50/60Hz as standard supply. All motor above 11kW fitted with windings protection – PTC one per phase.

Options available – different voltage range, Top Premium Efficiency E3 , windings & Bearings protection – fitted with Pt100 -RTD's, Vibration sensors, Anti-condensation heaters and other requirements

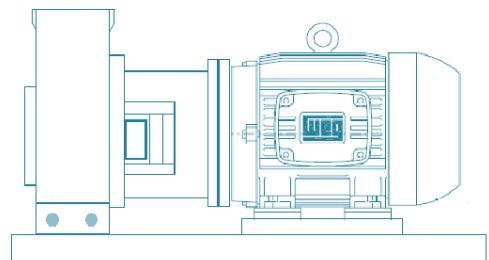
MECHANICAL SEALS

The shaft seal of a chemical pump is, more often than not, found to be the weak link that limits pump service life. In recognising this, and in understanding well those factors that can affect seal performance, Regent Pumps has provided a seal chamber design that is both functionally correct and versatile. Dimensioned in to suit seals with installation dimensions to DIN24960, the intelligent use of the resin materials of construction allow full advantage to be gained from an array of common seal configurations.

Configurations

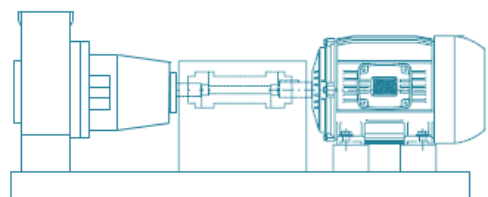
CLOSE COUPLED

Reliability has long been accepted as being inversely proportional to the number of components in any system. Close coupled pumps have used this principle to improve reliability in many industries and over 60 years, we have been successfully on our standard Regent DINBLOC Range.



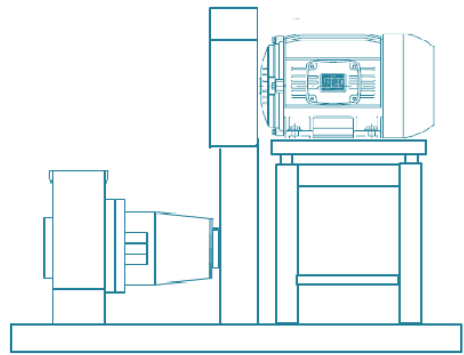
LONG COUPLED

For many operators, the use of any but traditional layout is not an option. The ability to separate the hydraulic and prime mover (electric motor) provides tempting convenience and economy for many large sites. Regent Pumps can provide the choosing of power-end and base plate in the same corrosion resistant resins as the wet end.



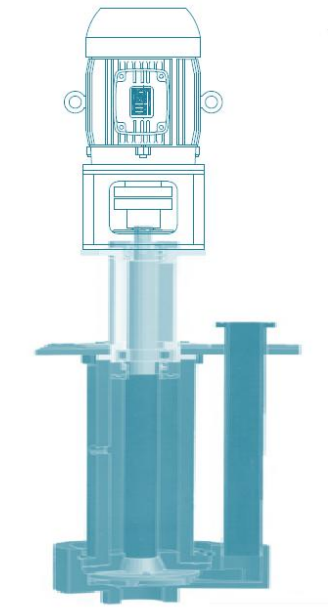
BELT DRIVEN

Even in the 21st century belt driving pumps carries advantages for some, with more accurate tailoring of curves to duties and the option of readily revising curves to duties (without the using the options of the expensive of Variable Speed Drives) for those changing or indeterminate duties that make final decision so difficult. Advantage is also to be derived from safety from flooding tat an over-mounted belt drive can provide in bund installations



VERTICAL COLUMN PUMP

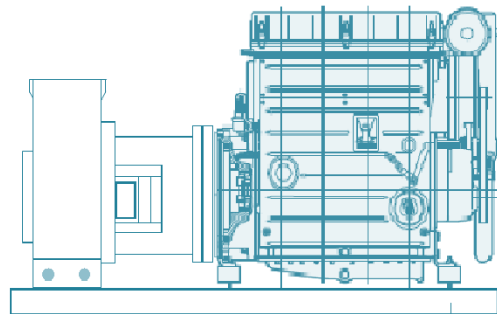
Vertical column pump Type has a specialised role in chemical pumping. Because this pump operates with its volute and impeller immersed directly in the supply or process tank. It is often the most convenient method of achieving NPSHR in challenging applications. Without the mechanical seal means that the Vertical Column may run dry making it particularly convenient for those processes in which it is difficult to guarantee reliable process fluid supply. This feature can even be utilised to advantage in those circumstances where top access to a tank is not available, by side-mounted hard-piping of the pump to the tank at an appropriate level.



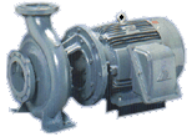
ENGINE DRIVEN

Engine Driven RPCRP pump provides the chemical transport industry with a pump package that will handle almost any chemical they need to move. Driven petrol or Diesel Engine or a hydraulic motor. This pump configurations represents the most cost effective and reliable solution.

Wide selection of Engine available, viz, Honda, Cummins, Hatz and many other International Brands



Other Regent Pumps Range



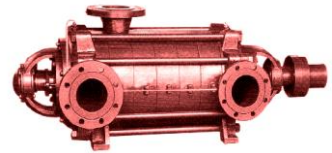
Dinbloc /ISObloc
Direct Coupled



Dinflow/ISOflow – Bare Shaft



Linebloc- DIN/ISO



RPTS-Single or Multiple outlets –
Horizontal Multistage Pump



Vertical Turbine Pump
Submersible Pump



RPZ – API610



RPAH– Slurry Pump



Megaflo
Horizontal Split case



Self-Priming



RPAP - Submersible
Aerator



RPSP- Sewage Submersible
Pump



Engine Drive Fire Pumps



Trailer Pump Engine Driven

Regent Pumps – Wide Ranging Applications



- Agricultural Irrigation
- Water treatment / RO System
- Mining
- Oil & Gas
- Power Station
- Marine Fire Fighting to FiFi I, II & III
- Palm Oil
- Chemical Plants
- Commercial / Industrial Buildings / Factory
- Leisure Park / Fountains
- Site Drainage
- Public Utilities Pumping Stations
- Sewage Plants
- Food Industries
- Marine – sea water pumps

✓ Quality

✓ Quick Delivery

✓ Reliability

✓ Customer Specific Need

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