



...SINCE 1989

# Every minute an unseen enemy is eating up your profits

Fight back with Raje-Dia



*more pumping power for less electric power*

## SERIES PPE

Series 'PPE' solid injection moulded pumps are available in polypropylene (PP), glass filled polypropylene (GFP) and UHMWPE materials and are suitable for all services compatible with PP.

The pumps incorporate robust design to handle highly corrosive fluids including corrosive slurries.

Special materials offered on request



## SERIES RD

Series 'RD' pumps are a variation of series 'PPE' pumps which incorporate back-pull-out feature. This offers all the advantages for easy maintenance, similar to metallic pumps. The metallic armour supports piping loads without any strain on the pump suction and discharge nozzle.

The pump construction and the spacer coupling together help dismantling of the rotor assembly without disturbing the suction/discharge pipes and motors.

This feature reduces the need for coupling alignment after every maintenance interval.



## SERIES PPM

Series 'PPM'; pumps are sturdy, compact in design and are most effective.

The pump impeller is directly installed on the motor shaft, reducing the number of components and associated costs.

These pumps are available in solid injection moulded PP, GFP and UHMWPE materials.



## SERIES PPK

Series 'PPK' polymer lined pumps are top-of-the-line pumps in non-metallic series. These pumps are designed for handling most several industrial duties. Available in variety of lining materials to suit different requirements involving highly corrosive fluids including high temperature services. Hi-tech lining process using latest US technology is employed to produce defect free components. The pumps lined with Dupont's Teflon grades FEP, PFA and ETFC offered by us, exhibit excellent chemical as well as temperature resistance similar to PTFE, and can virtually replace expensive Hastelloy-B, Hastelloy-C and ceramic lined pumps at affordable prices. Other lining materials offered are PP, GFP and PVDF.



## SERIES KR

Series 'KR' pumps are solid injection moulded kynar 'PVDF' pumps which incorporate backpull out feature. This offer all the advantages for easy maintenance, similar to metallic pumps.

The metallic armour supports piping loads without any strain on the pump suction and discharge nozzle.

The pump construction and the spacer coupling together help dismantling of the rotor assembly without disturbing the suction/discharge pipes and motor.

This feature reduces the need for coupling alignment after every maintenance interval.



## SERIES MER

Series MER magnetic driven pumps are sealless.

A group of magnet (drive) turns jointly with motor shaft, generating a magnetic torque which allows the rotation of the secondary magnets group on which is moulded on the impeller insert.

The pump can avoid atmospheric hazardous effects due to the leakage problems.

These pumps are available in solid injection moulded PP, GFP and PVDF materials.



## SERIES AER

Series 'AER' metallic pumps are designed for heavy-duty service with oversized bearing for reliable operation. The Robust semi-opened impeller is designed in such a way that it handles moderate percentage of solid without clogging. The sturdy shaft design minimises the vibration levels and provides smooth & trouble free operation. The pumps are offered in various materials like Carbon steel, SS-304(CF8), SS-316(CF8M), SS-316L(CF3M), A-20, Hast-C, Hast-B, etc.



## SERIES VPK

Series VPK vertical glandless pumps are of unique design which avoid use of any sealing system for gland, thus ensuring trouble free, maintenance free operation for prolonged period.

Pump is mounted at such a level that automatic liquid priming occurs. For suction lifts use of foot valve helps to achieve a hassle free pumping system.

All wetted parts are in Polypropylene/Glass filled polypropylene.



## SERIES VPP

Series 'VPP' vertical submerged pumps are robust in construction.

Heavy duty column pipe which supports shaft and pump assembly minimises vibration.

These pumps are designed for Heavy duty operation and are available in various materials such as PP, GFP, UHMWPE and PVDF.

Unique labyrinth sealing feature controls emission of corrosive vapours, aids protection to the drive equipment and surrounding environment.



## VALVES

Teflon (FEP/PFA) lined valves

Ball Valve/Butterfly Valve/Diaphragm Valve  
Pressure rating:- ANSI Class :- 150/300 Size : 25 mm to 300 mm

Material of Construction:

- A.. Valve body Cast Iron/Cast Steel
- B.. Ball / Valve Disc AISI 304 with Teflon lined
- C.. Diaphragm Teflon with rubber backup screw type.
- D.. All other wetted part of valve and raised portion of flange will be Teflon lined.
- E.. Teflon (FEP/PFA) lining thickness will be 3.00 mm.



## PRIMING POT

The priming pot also known as priming chamber is used for priming the pump in the event of negative suction condition. This avoids the need of foot valve and frequent priming of the pump.

The priming pot is connected to the pump suction filled with liquid and sealed airtight before initial start up. After starting the pump, the liquid from priming pot is drawn into the pump and partial vacuum, is created in the pot. Due to partial vacuum, liquid rises in the suction pipe and pushes the air into the pot. This action fills the suction pipe resulting in priming. The air accumulated in the priming pot mixes with liquid and is driven through discharge of the pump. Thus, the priming pot is filled and is ready again for the next start up.



## SPECIAL FEATURES OF ENTIRE RANGE OF OUR PUMPS

- Shaft is well protected by a confined PTFE sleeve gasket.
- Fasteners are encapsulated to avoid environmental corrosion.
- Special design mechanical seal offered as a standard feature to ensure reliability.
- Impeller clearance can be adjusted externally for all series except series 'PPM' pumps.
- Detachable discharge branch, suction and discharge flanges in series 'PPE' and 'PPM' save the expensive casing replacement costs.
- Casing and back plate of series 'PPK' pumps are offered in carbon steel (ASTM A 216 grade WCB) as a standard S.S. 316 material offered on request.

## RAJE-DIA PUMPS ARE WIDELY USED FOR THE FOLLOWING APPLICATIONS

- Acids & Alkalies of all types.
- Filter Press for dyes & Pigments.
- Descaling.
- Water Treatment.
- Effluent Treatment.
- Electro Plating
- Pickling of Steel in Cold Rolling Mills.
- Scrubbing of Corrosive Gases like Cl<sub>2</sub>, Br<sub>2</sub>, F<sub>2</sub>, I<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, CO<sub>2</sub>, NH<sub>3</sub> and others.

## RAJE-DIA PUMPS ARE SERVING THE FOLLOWING INDUSTRIES

- Caustic Soda Plants (Chlor Alkali Industries)
- Dyes and Chemicals.
- Drug and Pharmaceuticals.
- Fertiliser Plants.
- Thermal and atomic Power Plants.
- Steel Plants.
- Paper and Pulp Industries. (for alum & NaOCl)
- Electronic Industries
- Sea Water Treatment
- Rayon and staple Fibre Plant (bleach liquor)
- Copper, Zinc Smelter
- TiO<sub>2</sub> Plant
- Glass Industries
- Textile Industries



Unit 1, Chhapi (N. Gujarat)



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**THE HI-TECH SOLUTION FOR CORROSION**

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