

We Have a Track Record of Creating a Corrosion Free Environment

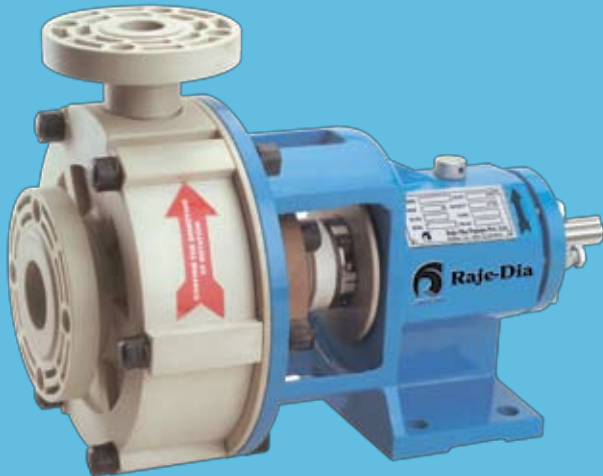
Leading manufacturer of Non-Metallic Centrifugal Pumps in India



SPECIAL FEATURES

- 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. SS 316 material offered on request.

SERIES PPE



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

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

Range:

Capacities	Q : up to 400 m ³ /h
Heads	H : up to 100 m
Pressure	P : up to 6 bar
Temperature	t : up to 80° C

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 nozzles.

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.

Range:

Capacities	Q : up to 400 m ³ /h
Heads	H : up to 100 m
Pressure	P : up to 6 bar
Temperature	t : up to 80° C

Series 'PPM' monoblock pumps are sturdy, compact in design and are most cost 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 and GFP materials.

Range:

Capacities	Q : up to 50 m ³ /h
Heads	H : up to 58 m
Pressure	P : up to 6 bar
Temperature	t : up to 80° C

SERIES PPM



Series 'VPP' vertical submerged pumps are robust in construction. Heavy duty column pipe supports shaft and pump assembly to minimise vibration.

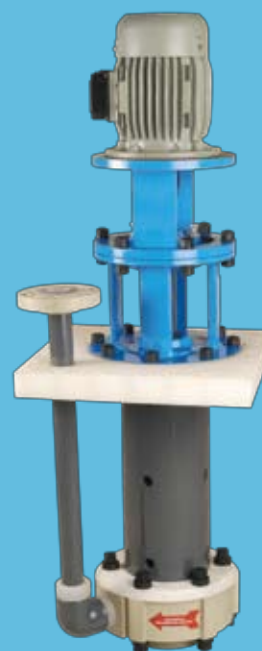
These pumps are designed for Heavy duty operation and are available in PP and GFP materials.

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

Range:

Capacities	Q : up to 50 m ³ /h
Heads	H : up to 58 m
Pressure	P : up to 6 bar
Temperature	t : up to 80° C

SERIES VPP



SERIES PPK (PFA)



Series 'PPK' PFA lined pumps are top-of-the-line pumps for handling highly corrosive fluids including high temperature services. Hi-tech lining process is employed to manufacture defect free components. These pumps can virtually replace expensive Hastelloy-B, Hastelloy-C and ceramic lined pumps at affordable price.

Range:

Capacities	Q :	up to 400 m ³ /h
Heads	H :	up to 100 m
Pressure	P :	up to 10 bar
Temperature	t :	up to 260° C

SERIES PPK (FEP)



Series 'PPK' FEP lined pumps are a variation of PFA lined pumps suitable for most corrosive services and moderately high temperature. Hi-tech lining process is employed to manufacture defect free components. These pumps offer economic alternative to higher alloy pumps like Hastelloy-B, Hastelloy-C and ceramic lined pumps.

Range:

Capacities	Q :	up to 400 m ³ /h
Heads	H :	up to 100 m
Pressure	P :	up to 10 bar
Temperature	t :	up to 180° C

Series 'PPK' PVDF lined pumps are a variation for wide range of corrosive applications, an economic solution to higher alloy pumps. The lined parts are manufactured using Hi-Tech lining process ensuring defect free components.

SERIES PPK (PVDF)



Range:

Capacities	Q : up to 400 m ³ /h
Heads	H : up to 100 m
Pressure	P : up to 10 bar
Temperature	t : up to 120° C

Series 'MER' magnetic driven sealless pumps. A set of primary magnets assembled with motor shaft generating magnetic torque which results in the rotation of secondary magnets which is moulded on the impeller insert.

SERIES MER

These pumps are available in solid injection moulded PP, GFP and PVDF (Polyvinylidene Difluoride) materials.



Range:

Capacities	Q : up to 45 m ³ /h
Heads	H : up to 26 m
Pressure	P : up to 5 bar
Temperature	t : PVDF up to 120° C PP/GFP up to 80° C

SERIES AER



Series 'AER' metallic pumps are designed for heavy-duty service with oversized bearings for reliable operation. The Robust semi-opened impeller design handles moderate percentage of solids without clogging. The sturdy shaft design minimises vibration 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.

Range:

Capacities	Q : up to 400 m ³ /h
Heads	H : up to 150 m
Pressure	P : up to 16 bar
Temperature	t : up to 260° C

SERIES AER



Series 'AER' centre lined mounted pumps are designed for heavy-duty service with oversized bearings for reliable operation, especially for high temperature service.

The pumps are offered in various materials like Carbon steel, SS 304(CF8), SS 316(CF8M), SS 316L(CF3M) etc.

Range:

Capacities	Q : up to 400 m ³ /h
Heads	H : up to 150 m
Pressure	P : up to 16 bar
Temperature	t : up to 350° C

SERIES EER

Series 'EER' metallic pumps are designed for heavy-duty service with oversized bearings for reliable operation. These pumps give the best efficiency due to robust closed impeller design. The sturdy shaft design minimises vibration and provides smooth & trouble free operation. The pumps are offered in various materials like Cast Iron, Carbon steel, SS 304(CF8), SS 316(CF8M), SS 316L(CF3M), A-20, Hast-C, Hast-B, Ni-Hard, CD4MCu etc.

Range:

Capacities	Q : up to 1150 m ³ /h
Heads	H : up to 160 m
Pressure	P : up to 25 bar
Temperature	t : up to 350° C

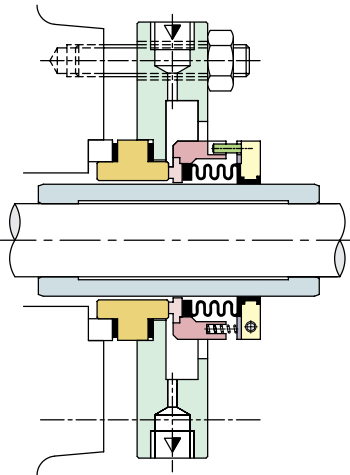




Leak-Proof

NOTES:

1. As a standard, pumps are supplied with 20M seal, Faces = GFT / Ceramic and sleeve ceramic.
2. Selection of mechanical seal and sleeve MOC are dependent on media, pressure and temperature.

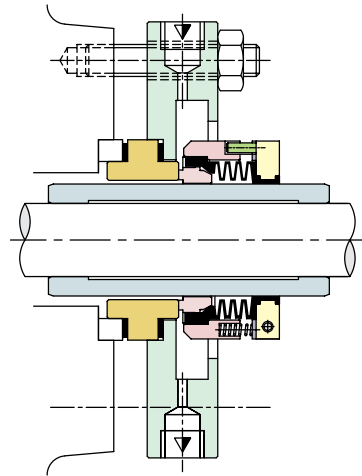


SERIES 20M

Face Materials: GFT / Ceramic
Metal Parts: SS 316, SS 304, Hastelloy C
Springs: Hastelloy C
Secondary Seals: PTFE Bellows
Applications: Extremely corrosive services
Seals Characteristics:

- Single Acting
- Outside mounted
- Independent of Direction of Rotation

Operating Limits:
 Pressure p : 6 bar (max)
 Temperature t : - 45 ... 90° C
 Velocity v : 10 m/sec.



SERIES LPT20R

Face Materials: GFT / Ceramic, Silicon Carbon
Metal Parts: SS 316, SS 304, Hastelloy C
Springs: Hastelloy C
Secondary Seals: PTFE Bellows
Applications: Extremely corrosive services
Seals Characteristics:

- Single Acting
- Outside mounted
- Independent of Direction of Rotation

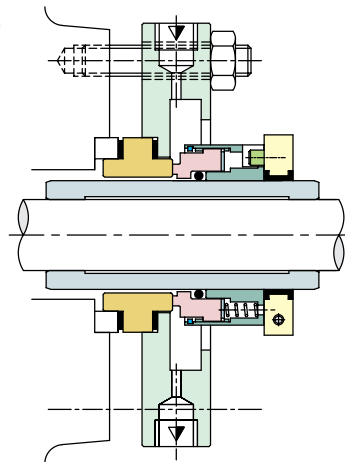
Operating Limits:
 Pressure p : 6 bar (max)
 Temperature t : - 45 ... 90° C
 Velocity v : 10 m/sec.

SERIES 88B2R

Face Materials: Carbon, Ceramic, Silicon Carbide
Metal Parts: SS 316, SS 304, Hastelloy C
Springs: Hastelloy C
Secondary Seals: FKM, FFKM, TCV
Applications: Corrosive Chemicals
Seals Characteristics:

- Single Acting
- Reverse Balanced
- Outside mounted
- Independent of Direction of Rotation

Operating Limits:
 Pressure p : 25 bar (max)
 Temperature t : - 45 ... 90° C (Carbon / Ceramic)
 - 45 ... 180° C (Carbon / SiC)
 Velocity v : 20 m/sec.

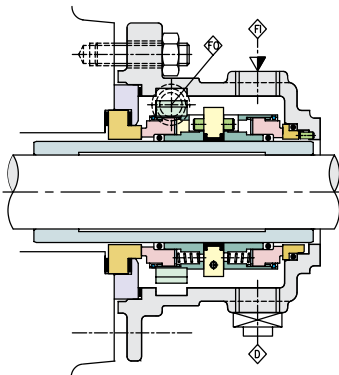


SERIES 88B2R - 88B2R

Face Materials: Carbon, Ceramic, Silicon Carbide
Metal Parts: SS 316, SS 304, Hastelloy C
Springs: Hastelloy C
Secondary Seals: FKM, FFKM, TCV
Applications: Corrosive Chemicals having tendency to crystallize. Volatile corrosive fluids. Corrosive fluids with suspended particulates.
Seals Characteristics:

- Double Acting back-to-back seals
- Balanced
- Independent of Direction of Rotation
- Operated with Pressurised Barrier Fluid

Operating Limits:
 Pressure p : 25 bar (max)
 Temperature t : - 45 ... 90° C (Carbon / Ceramic)
 - 45 ... 180° C (Carbon / SiC)
 Velocity v : 20 m/sec.



THERMOSYPHON VESSEL & PRIMING POT

Series LPTSO7 Thermosyphon Vessel is used for double mechanical seals in back-to-back or tandem arrangement. This is equipped with cooling coil to dissipate heat from the barrier medium. Higher capacity up to 20 ltr. can also be offered upon request.



Operating Range:

Capacity : 7.0 ltrs
 Design Pressure : 35 bar
 Hydraulic Test pressure : 53 bar
 Working temp. (max) : 150° C
 Heat Transfer area : 0.2 m²
 Cooling water flow rate : 5 ltrs/min

Polypropylene priming pots are used when pumps are installed in negative suction conditions. This avoids the need of foot valve and frequent priming of pumps.

The priming pot is connected to the pump suction, filled with liquid and sealed airtight before initial start up. This draws the liquid in the suction pipe resulting in priming.



Range:

Capacities Q : 25 to 150 ltr
 Pressure P : up to 5 bar
 Temperature t : PP up to 80° C





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