



Process Pumps (I) Pvt. Ltd.

HORIZONTAL PUMPS



Metallic & Non Metallic

DESIGNED TO PERFORM

Horizontal pumps

Process, chemical, and petrochemical industries handle a variety of fluids, ranging from simple water, solvents, acids, and molten salts to metals, at various temperatures and pressures.

- A centrifugal pump is preferred for its ease of operation across a spectrum of head and capacity within a given system design.
- We offer a horizontal end suction, top discharge, single-stage centrifugal pump in both metallic and non-metallic materials.
- Our pumps conform to standards such as ISO 2858, ANSI B 73.1, IS 5120, IS 5199, and API 610.
- Our design philosophy focuses on meeting the requirements of a robust machine and a clear understanding of sealing needs based on the characteristics of the liquid and slurry

API pumps

The petrochemical industry, over the years of its evolution, has developed governing guidelines and standards for various equipment used in the industry.

- Centrifugal pumps, being the heart of the plant, hold special importance.
- We manufacture and deliver single-stage horizontal centrifugal pumps in conformance with OH1 and OH2 standards, as per the latest edition of API-610.
- Additionally, we also cater to the requirements of vertical pumps, complying with VS4 and VS5 standards.
- The specifications and requirements of these standards are not only applied in the petrochemical industry but are also utilized in the present day across various critical applications in different industries.

METALLIC SERIES



What we offer

- We offer 120 pump models designed to meet ISO 2858, ANSI B 73.1, and IS 5199 standards.
- These pumps conform to API 610 available in OH1 and OH2 configurations with a capacity of up to 450 m³/hr and a design temperature of 400°C.
- Compliance testing is conducted following IS 5120, ISO 9906, API610, and HIS standards.

Technical Specifications

- Head range: Up to 150m
- Capacity: 1m³/hr to 900m³/hr
- Impeller options: Closed, semi-open, or reverse vane
- Sealing options: Mechanical seal or gland packing
- Materials: Casted (except Titanium pumps, which are fabricated)

NON - METALLIC SERIES (UHMWPE)



What we offer

- 75 different models designed.
- Non-Metallic Pumps are primarily used in the reducing atmosphere.
- Pumps are offered in fully moulded UHMWPE
- Pumps are offered for a temperature range of -30° to 90°C for UHMWPE.
- Pumps are tested to be in compliance with IS 5120/ ISO 9906/ HIS

Technical Specifications

- Head of upto 60m.
- Capacity $1.5\text{m}^3/\text{hr}$ to $500\text{m}^3/\text{hr}$.
- Offered only in semi open impeller.
- Pump offered with mechanical seal or gland packing to suit the liquid handled.

NON - METALLIC SERIES (LINED FLURO PLASTICS)



What we offer

- 45 different models designed.
- Non-Metallic Pumps are primarily used in the reducing atmosphere.
- Pumps are insitu moulded offered in flouro lined plastics based on application.
- Pumps are offered for a temperature range of upto 130° C for PVDF, and upto 220° C for PFA.
- Pumps are tested to be in compliance with IS 5120/ ISO 9906/ HIS
- Being a flouro lined speciality plastic the pumps are capable of handling oxidising & reducing atmospheres.

Technical Specifications

- Head of upto 60m.
- Capacity 1.5m³/hr to 200 m³/hr.
- Offered only in semi open impeller.
- Pump offered with mechanical seal or gland packing to suit the liquid handled.
- The casing and stuffing box are lined on a CS base metal

- We offer a insitu moulded pump where the lining is injection moulded into a Cast steel lining which offers a sturdy and robust system in high temperature or vacuum application avoiding disbonding/ pealoff
- We offer a minimum lining thickness of 5 mm

Material of Construction

The material of construction of a pump plays a crucial role in the operation and durability of the pump. Based on the liquid handled, its nature, temperature and pressure of operation, the material of construction of the pump is to be selected with suitable corrosion allowance. Specialized in offering corrosion resistant pump, we offer the pump in a wide range of metallic and nonmetallic materials to suit the application

Metallic Material

Casted Pumps

Stainless Steel conforming to various ASTM specifications such as CF8, CF8M, CF3, CF3M and many more.

Duplex and Super Duplex Steel which include CD4MCu, CD6Mn, CD3Mn and many more.

Inconel

Nickel (CZ100), R55

Monel

Acid Resistant Bronze

Alloy 20

Hastelloy C & B

Other Exotic and Special Alloy - Fabricated Pumps

Titanium

Nickel 200 & 210

Non Metallic Materials

Fully Moulded

Ultra High Molecular Weight Poly Ethylene (UHMWPE)

Lined Pumps

Poly Vinyl Di Fluoride (PVDF), Fluorinated Ethylene Propylene (FEP), Per Fluoro Alkoxy Alkanes (PFA)

OTHER PRODUCTS

**HORIZONTAL
PUMP**



**HYDRODYNAMIC
SEAL PUMPS**



**VERTICAL
GLANDLESS
PUMPS**



**VERTICAL
SUMP
PUMPS**



**CANTILEVER
SHAFT
PUMP**



**VERTICAL
INLINE
PUMPS**



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Pumping solutions redefined



Location