

HORIZONTAL BACK PULLOUT CHEMICAL PROCESS PUMPS

Pump Type - PHB / PCB

APPLICATIONS :

The 'ENTITY' make Horizontal Back Pullout Pumps are most suitable for industries such as Chemical, Petrochemical, Textile, Fertilizer, Biotech, Paper, Power Plant, Steel Plant, Sugar, etc. for handling liquids such as Aggressive Organic Inorganic Toxic & Explosive Liquids such as Chlorides, Dyes, Sulphides, Phosphates, Solvents, Spent Wash, Fermented Wash, Oils, Acids, Alkalies, etc.

HORIZONTAL BACK PULLOUT PUMP

Type - PHB



DESIGN FEATURES :

Pump type PHB conforms to dimensional standard ISO 2858 (and also generally as per DIN 24256). These are Back Pullout Pumps. This feature allows to dismantle the entire rotating assembly without disconnecting the piping from casing. The pumps are provided with heavy duty bearings for giving longer bearing life. The pumps are also provided with liberal shaft size to avoid premature failure. The pump can be supplied with closed or semi open impeller which give highest efficiency and low NPSH. The impeller is fixed on shaft by a key.

HORIZONTAL BACK PULLOUT PUMP

Type - PCB



DESIGN FEATURES :

Pump type PCB is specially designed to offer most economical solution for many applications where small flow rates at moderate heads are required. These are Back Pullout Pumps. The impeller is fixed on shaft by a key. This avoids the possibility of impeller getting loosened when the pump rotates in reverse direction as in the case of impeller fixed on shaft by internal threading. The pump has all the other features such as cooling jacket for stuffing box (optional), provision of mechanical seal (optional), etc. The pumps are provided with grease packed bearings.

ENTITY HYDRODYNAMICS

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HORIZONTAL BACK PULLOUT CHEMICAL PROCESS PUMPS

PUMP TYPE : PHB

Range :

| | | |
|------------------|---|----------------------------|
| Delivery Size | - | upto 125 mm |
| Rate of Flow | - | upto 300 m ³ /h |
| Head | - | upto 150 m |
| Temperature | - | upto 180 °C |
| Working Pressure | - | upto 25 kg/cm ² |

PUMP TYPE : PCB

Range :

| | | |
|------------------|---|----------------------------|
| Delivery Size | - | upto 40 mm |
| Rate of Flow | - | upto 40 m ³ /h |
| Head | - | upto 40 m |
| Temperature | - | upto 180 °C |
| Working Pressure | - | upto 16 kg/cm ² |

OPTIONAL FEATURES :

ENTITY Pumps are supplied with following optional features when demanded by the application.

1. Stuffing box cooling arrangement for temperature above 100°C.
2. Bearing cooling arrangement for temperature above 180°C.
3. Centre line mounting for temperature above 250°C.
4. Mechanical seals, single or double.
5. Steam jacketed casing and st. box cover for liquids which solidify at room temperature.

MATERIAL OF CONSTRUCTION :

As the '**ENTITY**' pumps are used for pumping wide range of corrosive and abrasive liquids, they are offered in different materials of constructions such as Grey Cast Iron, Alloyed Cast Iron, Alloy Steels in grades CF8 / AISI 304, CF8M / AISI 316, CN7M (Alloy 20), Bronze, Cast Steel Gr WCB

QUALITY CONTROL :

All the raw materials which go into the '**ENTITY**' Pumps are tested thoroughly for chemical and physical properties. Material tests such as magnetic particle test, dye penetration test, ultrasonic tests etc. are also offered as optional tests. All the parts manufactured on machines are thoroughly checked for dimensional accuracies with the help of standard measuring equipment. Each and every pump is tested rigorously in the testing laboratory where the parameters like rate of flow, head and power are measured. The pumps are cleared for the dispatch only when they produce satisfactory hydraulic and mechanical performance.

OTHER PRODUCTS

We also manufacture pumps in following types -

Horizontal Self Aligned Chemical Process Pumps

Horizontal Self Priming Chemical Process Pumps

Horizontal Multistage Pumps

Barrel Pumps

Vertical Submerged Pumps for Chemical Process Applications

Vertical Submerged Steam Jacketed Pumps

Vertical Submerged Coolant Pumps

Vertical Floor Mounting Pumps

Designed & Manufactured by :

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