

PUMPS CATALOG



Cast Iron Centrifugal Pump



Stainless Steel Centrifugal Pump

N.P.T GROUP NHAN PHONG THAI CO., LTD.

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PUMP is one of the important equipments used in Water Treatment System. There are many kinds of Water Pumps are made by the famous manufacturers in the world. We want to offer to you that one of them is used for our water treatment designs. It means that these equipments will be delivered to water treatment systems when we install water treatment plant for customers.

Water Transferred Pumps in Pure Water Treatment Solution

- Centrifugal Pumps:

- Construction of pump head : Stainless Steel 304, Cast iron
- Shaft : Stainless Steel
- Seals : Mechanical seal type
- Closed Impeller : Cast iron/Stainless Steel
- IP : 54
- Capacity : Following the Manufacturer's Catalog
- Power requirements : (1) 3 phase x 380V x 50 Hz (2Pole/4Pole)
- Applications : Installed on above ground

- Submersible Pumps:

- Construction of pump head : Stainless Steel 304, Cast iron
- Shaft : Stainless Steel
- Seals : Mechanical seal type
- Closed / Open Impeller : Cast iron/Stainless Steel
- Capacity : Following the Manufacturer's Catalog
- IP : 68
- Power requirements : (1) 3 phase x 380V x 50 Hz (2Pole/4Pole)
- Applications : Installed under water



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Pump Brand: Ebara, Grundfos, Goulds, Pentax...

Water Transferred Pumps in Waste Water Treatment Solution

- Centrifugal Pumps:

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- Shaft : Stainless Steel
- Seals : Mechanical seal type
- Closed Impeller : Cast iron/Stainless Steel
- IP : 54
- Capacity : Following the Manufacturer's Catalog
- Power requirements : 3 phase x 380V x 50 Hz (2Pole/4Pole)
- Applications : Installed on above ground

- Submersible Pumps:

- Construction of pump head : Stainless Steel 304, Cast iron
- Shaft : Stainless Steel
- Seals : Mechanical seal type
- Closed / Open Impeller : Cast iron/Stainless Steel
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Centrifugal Type



Submersible type

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Acid Waste Water Tranfered Pumps



- Construction of pump head : FRP (Composite)
- Pump type : Self-Priming Centrifugal Type
- Shaft : Stainless Steel 316L
- Seals : Mechanical seal type
- Closed Impeller : FRP (Composite)
- IP : 54
- Capacity : Following the Manufacturer's Catalog
- Power requirements : (1) 3 phase x 380V x 50 Hz (2Pole/4Pole)
- Applications : Installed on above ground
: Transfer Acid Waste Water or Chemical

Chemical Dosing/Metering Pumps

The Dosing / Metering Pumps are reciprocating positive displacement pumps with variable flow rates that can be adjusted when the pump is running or stopped. They are used for accurate addition of liquids to continuous or batch processes. The pumps can handle a huge variety of types of liquid, including normal chemicals plus viscous, slurry-lsden, abrasive, corrosive, pyrophoric radioactive and other substances, and covers flowrates from 0.4 cc per minutes to over 60,000 litres per hour.

The pumps are used in variety of applications in many different industrial sectors, among them:

- Drinking water and waste water treatment.
- Power generation and Boiler water treatment.

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- Industrial effluent treatment.
- Oil and Gas industry.
- Chemical and petrochemical processes.
- Food processing industry, Agriculture.
- Pulp and paper industries.
- Detergent manufacture.
- Pharmaceuticals.
- Surface treatment, Metallurgy, Electronics, etc.

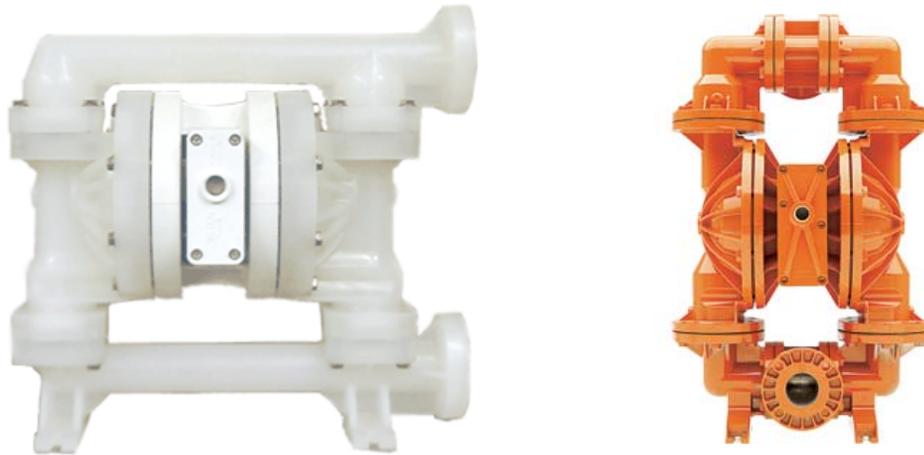
Pump Construction

- Construction of pump head : PVC/SUS
- Pump type : Diaphragm Type and Electric Motor Controlled
- Shaft : Stainless Steel 316L
- Seals : PVC/Ceramic/PVDF
- Diaphragm : PVDF/PTFE
- Capacity : Following the Manufacturer's Catalog
- Power requirements : 1 phase x 220V x 50 Hz
- Applications : Transfer chemical liquid or metering chemical



Chemical dosing pump Type

Air-controlled Diaphragm Pumps



Air controlled diaphragm Pump (PP & Metal type)

A **diaphragm pump** is a positive displacement pump that uses a combination of the reciprocating action of a rubber, thermoplastic or teflon diaphragm and suitable non-return check valves to pump a fluid. Sometimes this type of pump is also called a **membrane pump**.

Those where the diaphragm is sealed with one side in the fluid to be pumped, and the other in air. The diaphragm is flexed, causing the volume of the pump chamber to increase and decrease. A pair of non-return check valves prevent reverse flow of the fluid.

When the volume of a chamber of either type of pump is increased (the diaphragm moving up), the pressure decreases, and fluid is drawn into the chamber. When the chamber pressure later increases from decreased volume (the diaphragm moving down), the fluid previously drawn in is forced out. Finally, the diaphragm moving up once again draws fluid into the chamber, completing the cycle.

Combination of Air compressor and controlled air devices with Diaphragm Pump, it becomes perfect pump system for applications:

- Transfer Slurry in Waste water Treatment
- Transfer Chemical liquid
- Acid waste water kinds