

VERTICAL FLOOR MOUNTING PUMPS FOR HANDLING SLURRIES

APPLICATIONS :

The 'ENTITY' make slurry handling pumps are most suitable for pumping liquids such as slurries, raw sludge, digested sludge, effluents, waste water, sump water, coal slurries, muddy water, fly ash, sand, gravel grain mash, grain slurry, maize slurry, etc.

DESIGN FEATURES :

ENTITY has developed specially designed pumps for handling slurries. These are Vertical Floor Mounting Pumps. The pump is supported on two vertical supports. Delivery nozzle is in horizontal position and can be placed in four different positions at 90° apart. Suction nozzle is in vertically downward position. Bearing housing assembly complete with rotating parts is fixed to the casing in vertical position. Pump is driven by vertical flange mounted motor. Pump is provided with a unique gland which prevents spillage of liquid in the gland area, thus keeps the pump and surrounding area clean. The Pump can be provided with mechanical seal.

RANGE :

Rate of Flow	-	upto 300 m ³ /h
Head	-	upto 100 m
Delivery Size	-	upto 125 mm
Temperature	-	upto 110°C
Solid Size	-	10 mm Ø max
Working Pressure	-	upto 16 kg/cm ²

VERTICAL FLOOR MOUNTING PUMP

Type : PVD



ENTITY HYDRODYNAMICS

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VERTICAL FLOOR MOUNTING PUMPS

ADVANTAGES :

- As the casing is having downward suction nozzle, slurry can not settle in the bottom portion of the casing as in the case of horizontal pumps. This prevents jamming of impeller due to settling of slurry in the casing and reduces the risk of overloading motor due to high initial torque. It also eliminates the necessity to dilute the settlement of slurry by some external source such as steam/water jet etc.
- As the pump is in vertical execution it requires less space compared to horizontal pumps. This reduces cost of foundation as well as saves the space for some other equipment.
- The pump is driven by flanged motor which is mounted on a suitable motor stool fixed to the bearing housing. The motor coupling and pump coupling are automatically aligned due to tongue and groove arrangement provided on the motor flange and motor stool. This coupling alignment is permanent and does not require any monitoring. This feature improves the life of bearings, mechanical seal, gland packing and flexible member of the coupling. It also saves lot of time required to spend on monitoring the coupling alignment as in the case of horizontal pumps.

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 Back Pullout Chemical Process Pumps

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

Designed & Manufactured by :

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Represented By