

**Submersible Pumps & Water Filled Motors**



# PLEUGER

## Submersible Bottom Intake Pumps

### Design Features

- **Standard submersible**

A bottom intake pump is a centrifugal pump, single-stage or multi-stage, driven by a submersible motor, featuring the same standard components used in Pleuger's renowned submersible pumps.

The bottom intake pump is suspended from the riser pipe without any other support.

- **Water filled motor**

The submersible motor is a water-filled 3-phase AC asynchronous motor.

A breather diaphragm is fitted to compensate the pressure inside the motor.

This means there is no pressure differential across the mechanical seal.

- **Perfect cooling**

The motor is fitted on top of the pump inside a shroud, so that the water is pumped through the annular space between stator tube and shroud providing excellent cooling for the motor.

- **MAT-System**

The Modular Assembly Technique is used for the bottom intake pumps. A large variety of Pleuger pumps and motors is available and can be combined to meet site conditions.

- **Long Life**

The Pleuger Bottom intake Pump offers all the advantages of Pleuger Submersibles :

Pump and motor are equipped with advanced radial journal bearings and heavy duty thrust bearings.

All bearings are water lubricated making the life virtually unlimited.

- **Environmentally safe**

The motor is filled with water. Neither oil nor grease are employed so that the water pumped cannot be contaminated.

- **Wet Motor**

The submersible motor is of the "wet" type.

The stator winding has a water proof insulation of high di-electric strength and is immersed in the motor filling.

The stator can be rewound locally if necessary.

- **Low noise level**

Pump and motor have water lubricated journal bearings. Therefore the unit runs quietly without vibration.

- **No flood hazard**

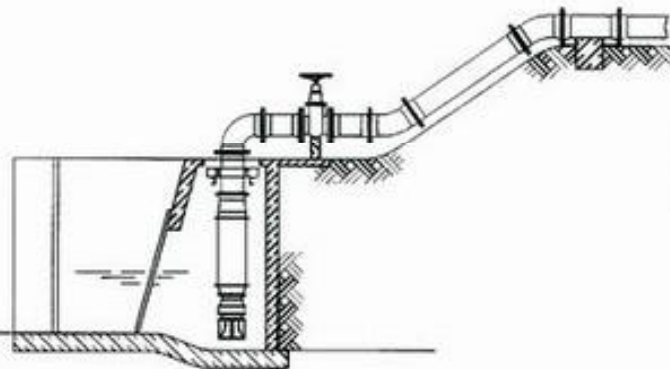
Since the motor is filled with water potential damage from floods is eliminated.



Pleuger Bottom Intake Pumps are designed to pump from low water levels. The pumps can be installed in rivers, lakes, shafts, sumps, ponds, quarries and mines.



Pleuger Bottom Intake Pumps are environmentally friendly. No pump house is required, the civil works can be reduced to a minimum saving installation cost.



Because of the low NPSH required the Pleuger Bottom Intake Pump is the perfect solution where other pumps are threatened by low submergence.



Since the Bottom Intake Pumps are suspended from the riser pipe without any other support they can easily be installed or removed.



The installation on the left is a cross section of the "open air" pumping station shown on the picture on the front page.



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