

Before start-up, note the following!

- The pump can be connected to any shock-proof plug which has been installed according to regulations.
- The plug must have a supply voltage of 230 V ~ 50 Hz.

Consistency

- Your submersible pump is designated for the circulation of water with a maximum temperature of 35°C.
- This pump may not be used for other fluids, especially motor fuels, cleaning fluids, and other chemical products!

Attention!

(important for your own security) Before starting to run your new submersible pump, please have the following items checked by an expert:

- Ground connection
- Zero conductor
- Fault current breaker switch must correspond to the safety regulations of the power plants and they must work faultlessly.
- The electrical connections must be protected from moisture.
- If there is danger of flooding, the electrical connections must be taken to higher ground.
- Circulation of aggressive fluids, as well as the circulation of abrasive materials must be avoided at all costs.
- The submersible motor-driven pump must be protected from frost.
- The pump must be protected from running dry.
- Access on the part of children, should also be prevented, with appropriate measures.
- The electrical installation shall be according to national wiring rules.
- Pollution of the liquid could occur due to leakage of lubricants

Installation

The submersible pumps is installed as follows:

- In a stationary position with fixed pipelines.
- In a stationary position with a flexible hose pipe.

Please note!

- You should never install the pump by suspending it unsupported from its delivery pipe or power cable.
- The submersible pump must be suspended from the specially provided handle or be placed on the bottom of the shaft.
- To guarantee that the pump works properly, the bottom of the shaft must be kept free of sludges and dirt of all kinds.
- If the level of water sinks too far, any sludge in the shaft will dry out quickly and stop the pump from starting up. It is necessary, therefore, to check the submersible motor pump regularly (by carrying out start-up tests).
- The float is adjusted in a way that the pump can immediately be started

Important Note!

If the mains cable or plug suffers any damage from external action, repairs to the cable are prohibited.

Important!

This work may only be performed by a qualified electrician

Areas of use

This pump is used primarily as cellar pump. When installed in a shaft, this pump provides protection from flooding.

They are also used wherever water has to be moved from one place to another, e.g. in the home, agriculture, horticulture, plumbing and many other applications.

Setting to work

After having read these instructions carefully, you can set your pump to work, reconsidering the following items:

- Check if the pump rests on the ground of the shaft.
- Check of pressure cord has been attached properly.
- Check if electrical connection is 230 V ~ 50 Hz.
- Check if socket is in good condition.
- Make sure that water and humidity can never come to the mains supply.
- Avoid pump running dry.

Maintenance guidelines

This submersible pump is an approved and maintenance-free high quality product, which is subject to severe final controls. We recommend regular inspection and maintenance to ensure long equipment life and uninterrupted operation.

Important Note!

- Remove the mains plug before all maintenance work.
- In the event that the pump is often transported in the course of operation, it should be cleaned out with clear water after every use.
- In case of stationary installation, the function of the floating switch should be checked every 3 months.
- All fibrous particles which may have built-up inside the pump housing should be removed with a water jet.
- Every 3 months the shaft ground and impeller should be cleaned from mud.
- Remove deposits on the floaters with clear water

Notes

The pump shall should have minimum dimensions of 40 x 40 x 50 cm, so that the floating switch can move freely.

Mains supply

Your new submersible pump is equipped with a shock-proof plug according to regulations. The pump is designed to be connected to a 230 V ~ 50 Hz safety socket. Make sure that it is in excellent condition. Introduce the plug into the socket and the pump is ready to go.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.

Important! Do not put down or rest the pump on the impeller!

3. Assemble in reverse order

Setting the ON/OFF operating point

The ON and OFF operating point of the float switch can be set by adjusting the float switch in its latching holder.

Before you put the pump into operation, please check the following:

- The float switch must be installed so that the level of the ON operating point and the level of the OFF operating point can be reached easily and with little force. To check this, place the pump in a vessel filled with water, raise the float switch carefully by hand and then lower it again. As you do so, note whether the pump switches on and off.
- Make sure that the distance between the float switch head and the latching holder is not too small. Proper operation is not guaranteed if the gap is too small.
- When you set the float switch, make sure that it does not touch the base before the pump switches off.
- Caution! Risk of dry-running.

Incidents - Causes - Remedies

Incidents	Causes	Remedies
Pump does not start	-No mains supply - Floater does not switch	- Check mains supply - Bring floater in a higher
No flow	-Inlet sieve is clogged	-Clean inlet sieve water jet
Pump does not switch off	- Floater cannot sink down	- Place pump properly on shaft
Insufficient flow	- Inlet sieve is clogged - Reduced pumping capacity	- Clean inlet sieve - Clean pump and replace
Pump switches of after short operating period	-Thermal cutout stops pumps due to dirty water - Water too hot	- Remove mains plug. Clean pump and shaft - Make sure that a water tem-

Guarantee note:

Not covered by guarantee:

- Destruction of rotating mechanical seal by dry running or addition of foreign bodies in water
- Blockage of running wheel through foreign bodies
- Transport damage
- Damage caused by unauthorised persons