

# Submersible Pump Instruction manual

### **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.

### **Caution!**

**When the pump is to be used near swimming pools or garden ponds and in their area of protection, it must be equipped with a ground-fault circuit interruptor. The pump must not be operated while people are in the swimming pool or in the garden pond! Please contact your electrician!**

### **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 the 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 loading, 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.

### **Consistency**

- Your submersible pump is designated for the circulation of water with a maximum temperature of 30°C.
- This pump may not be used for other fluids, especially motor fuels, cleaning fluids, and other chemical products!

### **Installation**

The submersible motor pumps is installed as follows:

- In a stationary position with fixed pipeline .
- 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 motor 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 sludge 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 floater is adjusted in a way that the pump can immediately be started

**Note!**

The pump shaft 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 is in excellent condition. Introduce the plug into the socket and the pump is ready to go.

**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, 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 as should be cleaned from mud.
- Remove deposits on the floater with clear water.

#### **Cleaning the impeller**

If excessive deposits collect in the pump case you must dismantle the bottom part of the pump as follows:

1. Remove the intake cage from the pump case.
2. Clean the impeller with clear water.

**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 position
No flow	-Inlet sieve is clogged -Pressure hose in bent	-Clean inlet sieve water jet - Reset hose
Pump does not switch off	- Floater cannot sink down	- Place pump properly on shaft ground
Insufficient flow	- Inlet sieve is clogged - Reduced pumping capacity by dirty and abrasive water	- Clean inlet sieve - Clean pump and replace worn-out parts
Pump switches off after short operating period	-Thermal cutout stops pumps due to dirty water - Water too hot. Thermal-cutout stops pump	- Remove mains plug. Clean pump and shaft - Make sure that a water temperature of max. 30°C is not exceeded

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



**Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.