

UNIT STARTING AND WORKING

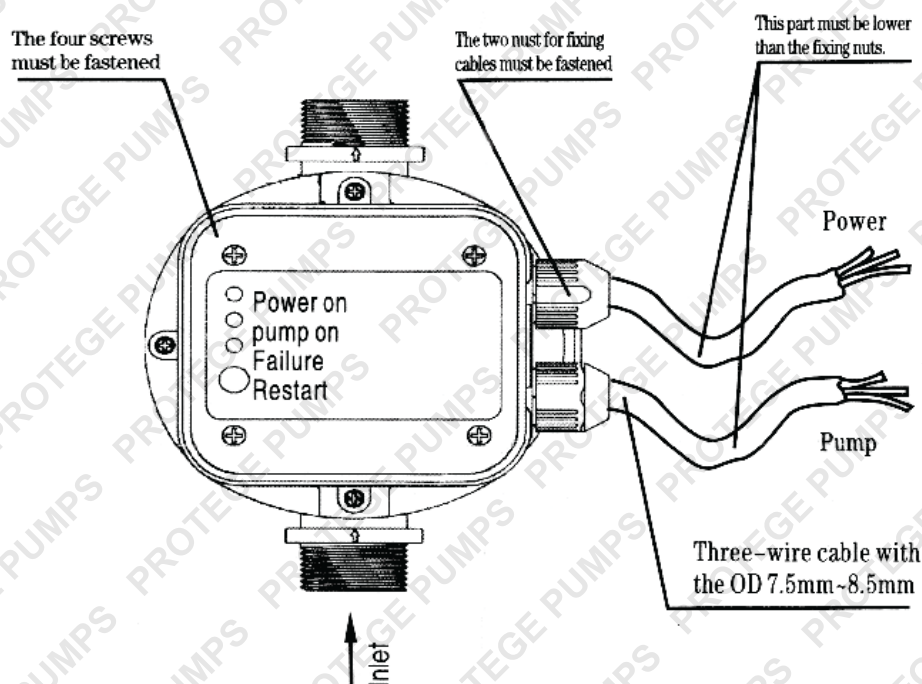
Warning

Never take the electronic board out of the control box.

The wiring diagram inside the terminal block will show you how to make correct connection. Wrong connection will destroy the whole electronic circuit.

Cable used for connection must be a three-wired one with compulsory grounding end. It shall have the outer diameter at 7.5mm min and 8.5mm max. One of the leading end of the cable must be lower than the position of the fixing screws while the cable being connected to the power as shown in the Fig.

The four screws on the panel board and the two nuts for fixing cable must be well fastened to avoid water entering into the control box and damaging the electronic circuit.



STARTING

When the unit is connected to the electrical network, the green led "Power On" lights up and the yellow led "On" (pump in operation) indicates that the pump has been started.

The pump continues to operate for dozens of seconds enabling the system to fill in the pipes and to reach the required pressure.

If this lapse is insufficient, the red led "Failure" lights up. In this event, keep the "Restart" button pressed and wait, with a tap opened, until the red led is off.

Once released the button and closed the tap, the unit stops the pump at its maximum pressure.

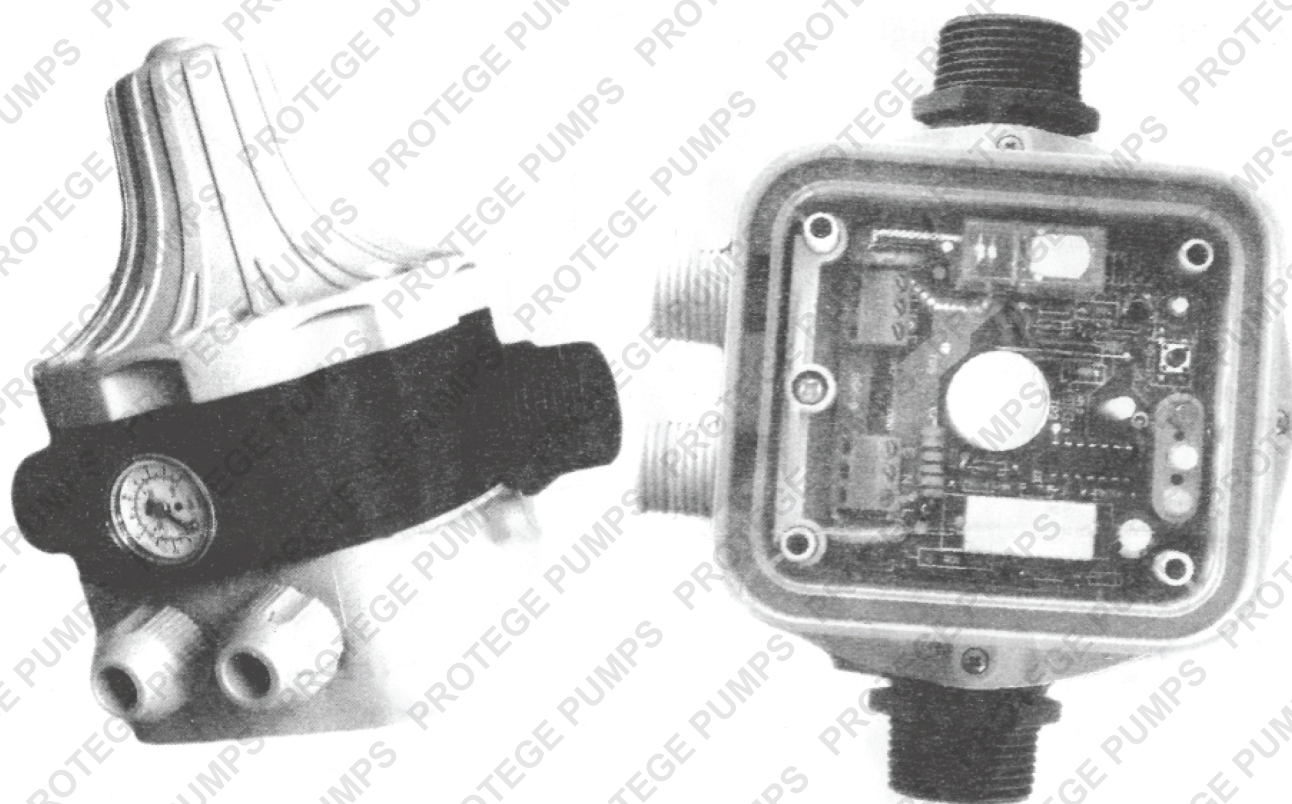
FUNCTIONING

The starting operation archived, the unit is programmed to perform all the pump control operations automatically.

When particular operational breakdowns occur, such as water failure, obstruction of the suction pipe etc., The unit recognizes the breakdown and the red led "Failure" lights up; at the same time a stop signal is sent to the pump to prevent damages caused by its working in the absence of water.

Rectification of the failures that have caused the blockage, allows the system to be restarted by pressing the "Restart" button.

Automatic Control For Water Pump



SPECIFICATIONS

Input voltage	220–240V	Maximum working pressure	10bar
Frequency	50/60Hz	Max working temperature	60°C
Intensity Max.	10A	Connection	1" male
Protection rating	IP64		

INSTRUCTIONS FOR CORRECT UNIT INSTALLATION

If the column of water between the pump and the highest tap exceeds 15 mts, the unit cannot be installed directly on the pump, but it has to be raised until the column of water between the unit and the highest tap does not exceed 15 mts.

I.E. If column of water is 20 mts. From the pump, the unit must be placed 5 mts higher than the pump.

It is advisable to connect the unit outlet to the system by means of a flexible hose.

Safety valve preventing water emission in case of diaphragm breaks

DO NOT TOUCH

The unit is equipped with a check valve to prevent the pipeline from losing pressure.

No taps can be installed between the pump and the unit.

PUMP'S PRESSURE

The unit is pre-set by the manufacturer at a restarting pressure of 1.5 bar.

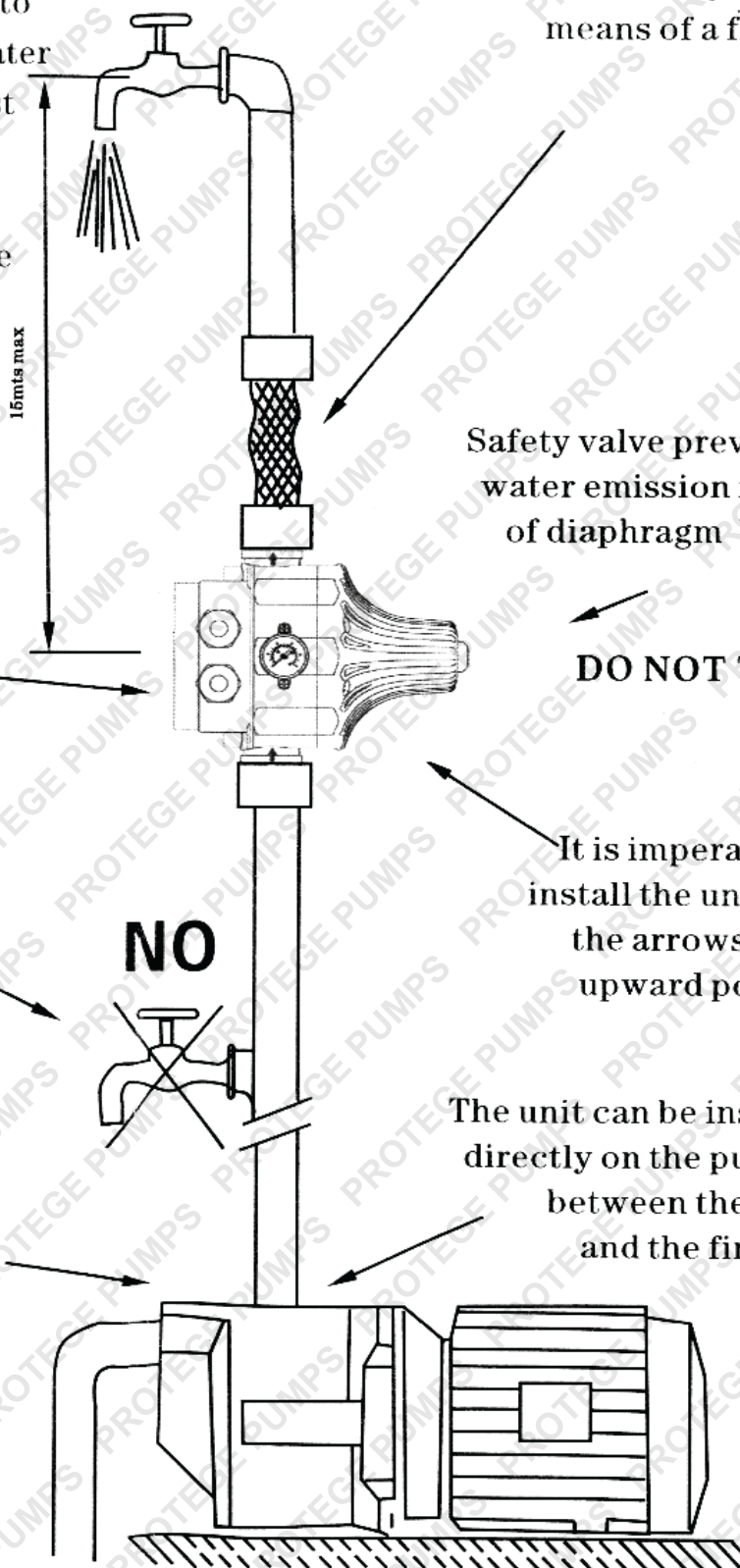
The pressure produced by the pump must be normally 0.8 bar higher than the pre-set pressure.

Before starting the unit check suction and ensure that the pump is primed.

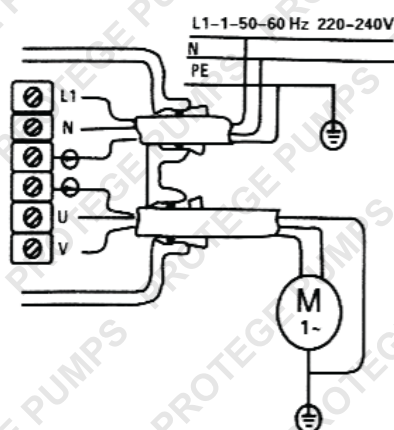
NO

It is imperative to install the unit with the arrows in the upward position.

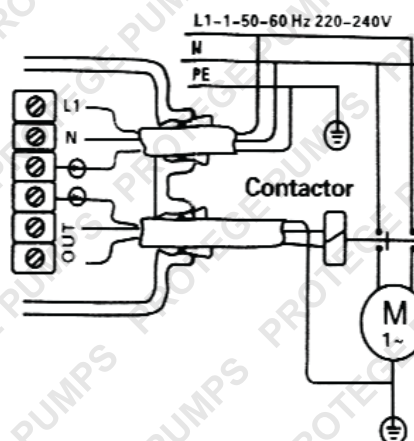
The unit can be installed directly on the pump, or between the pump and the first tap.



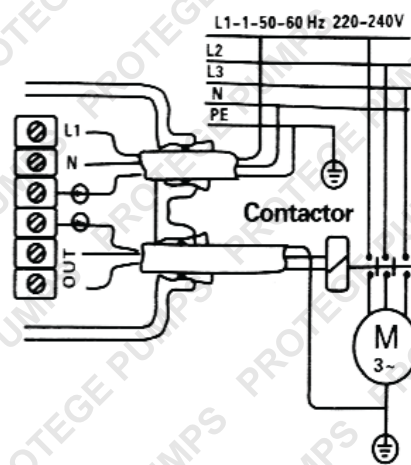
WIRING DIAGRAMS FOR CONNECTING THE UNIT TO DIFFERENT KINDS OF PUMP'S MOTORS



Wiring diagram for connection of single-phase 220V pumps up to 1.1 Kw.



Wiring diagram for connection of single phase 220 V pumps over 1.1 Kw. Through remote control switch.



Wiring diagram for connection of three phase 380 V motor pumps through remote control switch.

SPECIFICATIONS FOR REMOTE CONTROL SWITCH

Minimum contacts capacity
of 4 Kw or 5.5 HP approx.
220V

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220 V

POSSIBLE WORKING DEFECTS

TYPE OF DEFECT	CAUSES DEPENDING ON THE UNIT	CAUSES NOT DEPENDING ON THE UNIT
-The pump does not start	-The electronic card is broken	-Voltage failure -Pump jammed -Electric cables inverted(Line/motor)
-The pump does not stop	-The electronic card is broken -The flow detector is blocked in the upper position -The reset button is blocked -The pump does not provide sufficient pressure	-Presence of leaks which are higher than the minimum flow 0.6 l/min
-Intermittent pump working	-The electronic card is broken -The pump does not provide sufficient pressure	-Presence of leaks which are lower than the minimum flow 0.61/min
-The pump is jammed	-The electronic card is broken -The pump provides a pressure which is lower than the restart pressure	-Water failure -Suction problems



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- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
 - Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
 - Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
 - Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
 - If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
 - This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.

