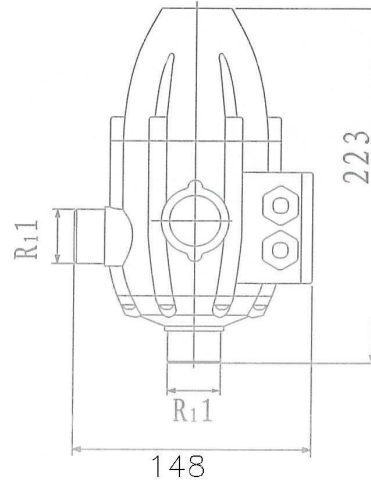


Model: 3253 Automatic Water Pump Control

FEATURES
<ul style="list-style-type: none"> • Input voltage 230V AC 50Hz. • Max. current 10(6)A. • Protection grade IP65. • Maximum working pressure 10 bar (1MPa). • Maximum working temperature 60° C. • Connections R1" (ISO 7/1). • Starting pressure setting:1,5-3 bar (0,15 MPa-0.3 MPa). • Minimum flow 2,5l/min. • Pump maximum power 1,5HP (1,1kw). • Pressure gauge 0-10 bar incorporated.



Ref.	Size	PN	Starting pressure (bar)	The height of water column (H)	Weight (g)
3253	1"	10	1,5-3 (0,15-0,3MPa)	≤ 15 m	1138

DESCRIPTION
<p>This pressure controller is designed for the automatic water supply system in family garden, swimming pool or daily water consumption.</p> <p>It orders the automatic start and stop of the water pump according to the changing pressure and water flow.</p> <p>It protects the pump from being damaged during water absence.</p>

INSTALLATION INSTRUCTIONS

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.

It means, if column of water is 20 mts. From the pump, the unit must be placed 5 mts higher than the pump.

The units are equipped with a check valve to prevent the pipeline from losing pressure.

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

The unit is pre-set by the manufacturer at a restarting pressure of 1,5 bar. If necessary this can be modified pressure to 3 bar by the screw which is located on top of the controller.

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 pumps are primed.

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.

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.

DISPLAY & FUNCTIONING

The starting operation archived, the units 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 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.

STARTING

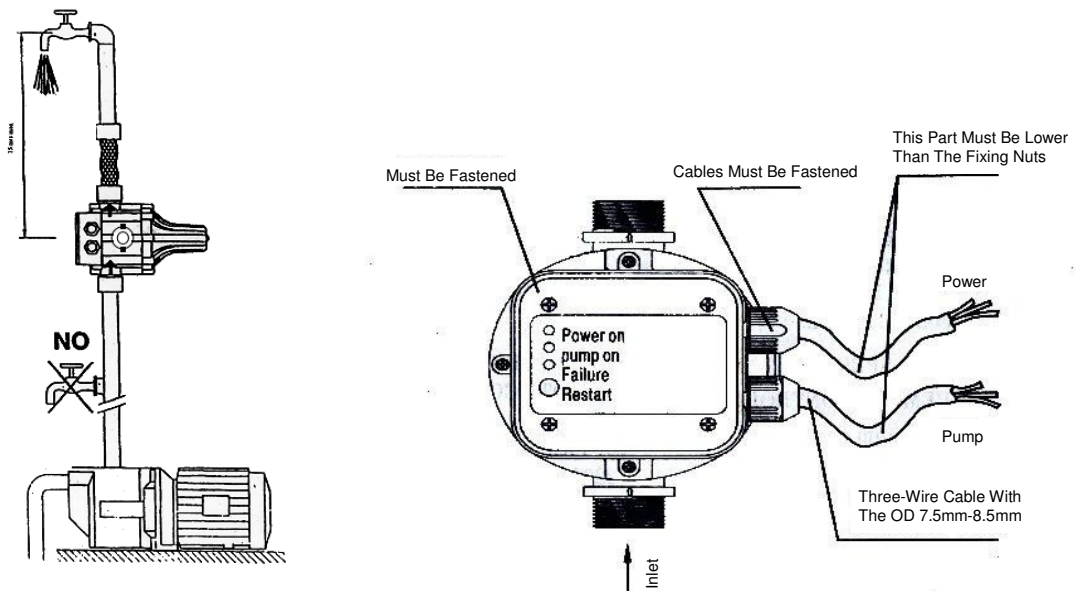
When the unit is connected to the electrical network, the green LED "Power On" lights up and the yellow LED "On" (pump in operation) indicates that the pump has been started.

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 laps is insufficient, the red led "Failure" lights up.

In this event, keep the "Rest" button pressed and wait, with a tap opened, until the led is off.

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



WARNING

Never take 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 three-wired one with compulsory grounding end.

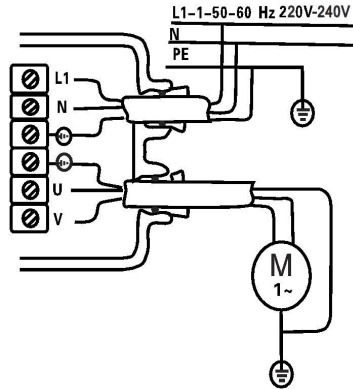
It shall have the outer diameter at 7,5 mm min and 8,5 mm max.

One of the leading ends of the cable must be lower than the position of the fixing screws while the cable being connected to the power as show in the Fig.

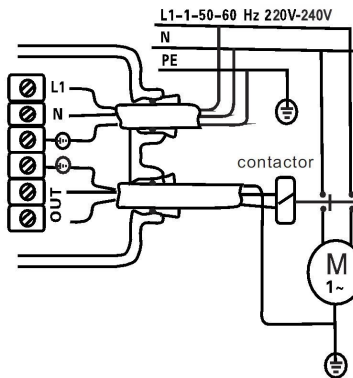
The four screws on the panel board and the two nuts for fixing cable must be well fastened to avoid water entering into the control box damaging the electronic circuit.

Wiring Diagrams

Wiring diagram to connect 230 V single phase pumps up to 1.1 kW (1,5 HP).



Wiring diagram to connect 230 V single-phase pumps over 1.1 kW (1,5 HP) through a contactor switching. (Specifications for main contactor: Minimum capacity of 4 kW or contact approx 5.5 Hp, 230 V).



Wiring diagram for connecting three-phase 380 V pumps through a contactor switching. (Specifications for main contactor: Minimum capacity of 4 kW or contact approx 5.5 Hp, 230 V).

