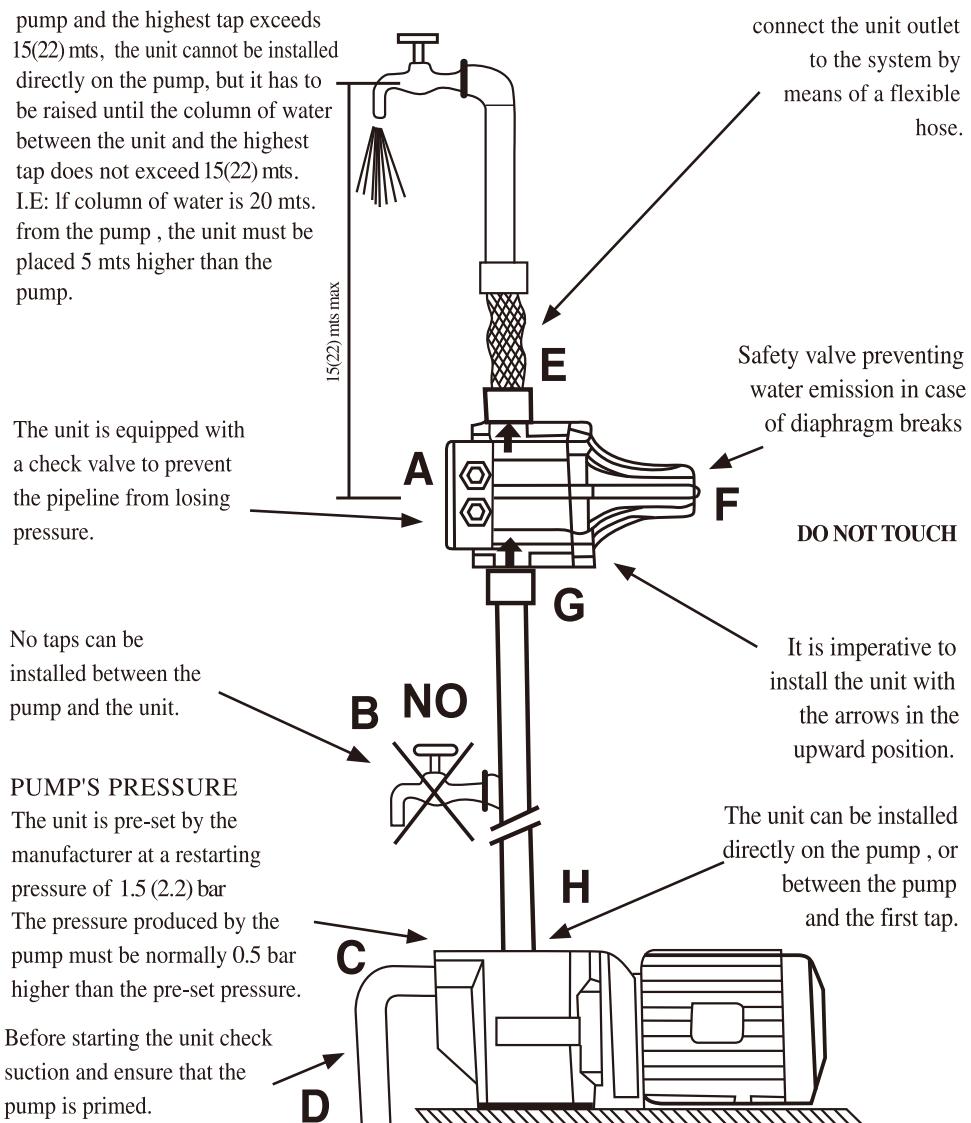


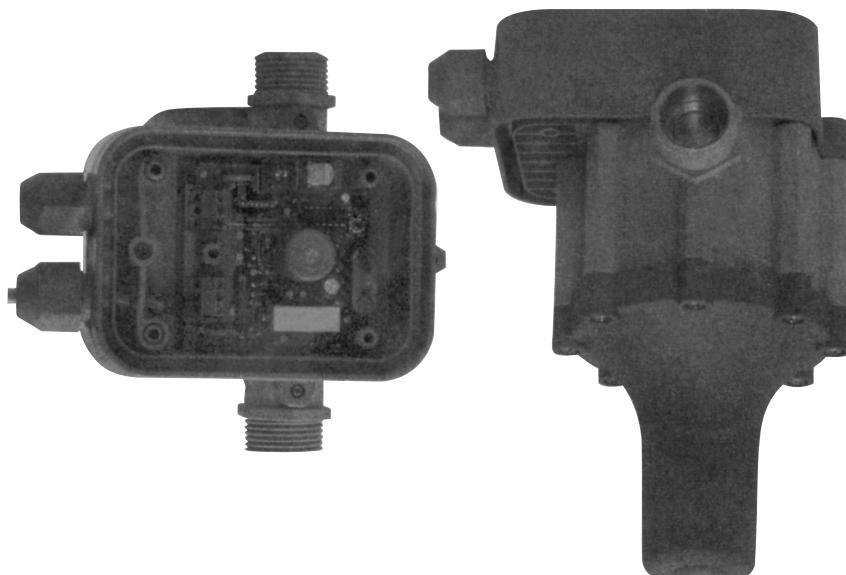
## **INSTRUCTIONS FOR CORRECT UNIT INSTALLATION**

If the column of water between the pump and the highest tap exceeds 15(22) 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(22) mts.

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

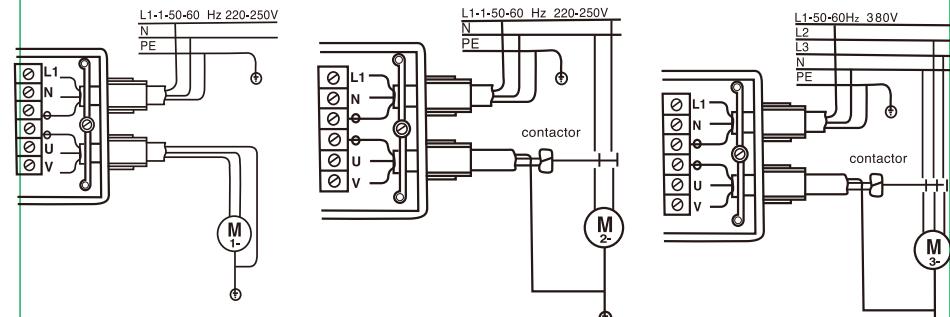


250V	Maximum working pressure 10 bar
50Hz	Maximum temperature rating 60 °C
10A	Connection "male"
65	Starting pressure: 1.5bar, 2.2bar



## Automatic Control For Water Pump

## **WIRING DIAGRAMS FOR CONNECTING THE UNIT TO DIFFERENT KIND OF PUMP'S MOTORS**



Wiring diagram for connection of single-phase 220V pumps up to 1.5 Kw.

Wiring diagram for connection of single phase 220V pumps over 1.5 Kw. through remote control switch.

9

SPECIFICATIONS FOR  
REMOTE CONTROL SWITCH  
Minimum contacts capacity  
of 4 Kw or 5.5 HP approx.  
220V

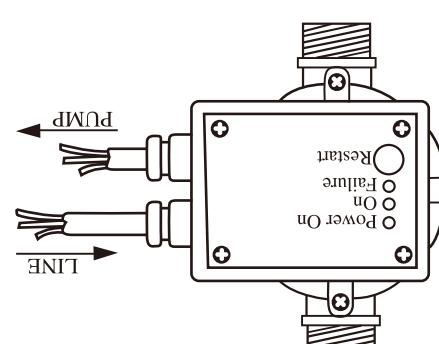
SPECIFICATIONS FOR  
REMOTE CONTROL SWITCH  
Minimum contacts capacity  
of 4 Kw or 5.5 HP approx.  
220V

## **POSSIBLE WORKING DEFECTS**

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 0.6 l/min
-The pump is jammed	-The electronic card is broken -The pump provides a pressure which is lower than -The restarting pressure	-Water failure -Suction problems

- The pump continues to operate for a few 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 waiting, with a tap open, until the red led is off.
- Once released the button and closed the tap, the unit stops the pump at its maximum pressure.
- 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; Recalibration of the failures that have caused the leakage, allows the system to be restarted by pressing the “Restart” button.

**STARLING**  
to guarantee the water tight enclosure of the box, the four screws on its box must be tightly  
correctly. The cable used should have 6 mm min. and 9 mm max. outside diameter. In order  
to screwed.



# UNIT STARTING AND WORKING