REEFE

PUMPS AUSTRALIA

BETTER • FASTER • EASIER

AUTOMATIC

PRESSURE CONTROLLER

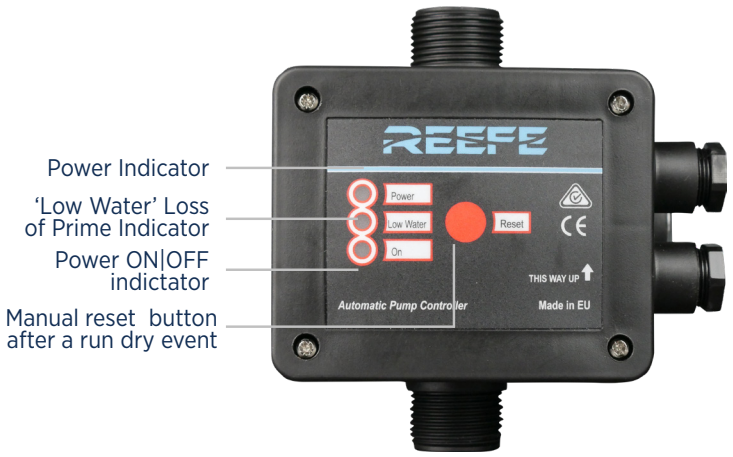
TECHNICAL DATA

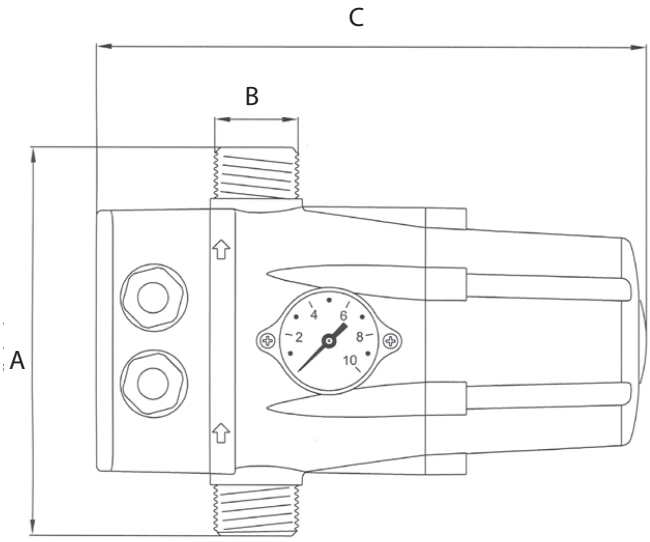
MODEL: RPC22HM

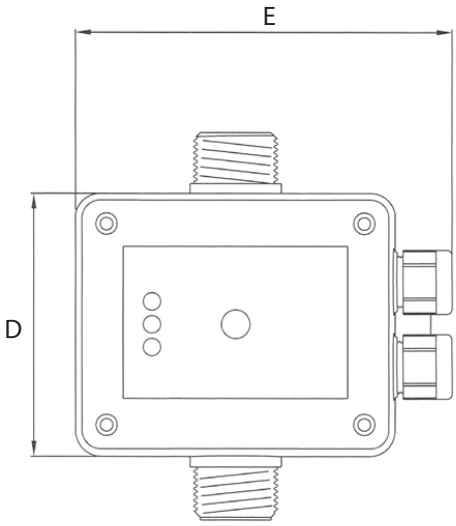
CODE: 20883

CONTROL PANEL & **DIMENSIONS**

MODEL	DIMENSIONS (MM)				
	A	B	C	D	E
RPC22HM	155	G1"	220	102	150

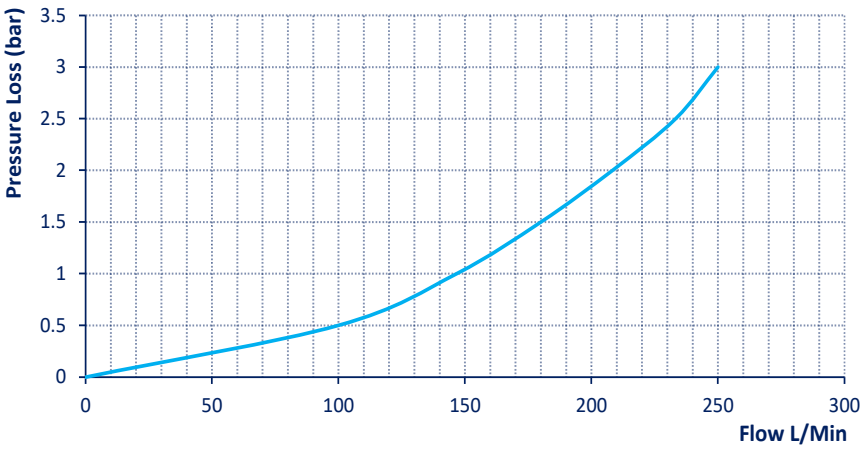






PRESSURE LOSS DATA

MODEL	L/MIN	0	50	100	150	200	250
RPC22HM	PRESSURE LOSS	0	0.25	0.5	1	1.9	3



OPERATION GUIDE &
INSTRUCTION MANUAL

READ CAREFULLY BEFORE MOUNTING AND USING THIS PRODUCT. FOR THE PUMP, REFER TO ITS MANUAL.

OPERATION
The RPC22HM Pressure controller orders the automatic start and stop of the water pump when opening or closing any tap or valve of the installation. When the water pump starts, it keeps running while any tap is opened in the system, giving a constant flow and pressure to the network.

CONSTRUCTION CHARACTERISTICS

- Inlet male 1" BSP Male
- Outlet male 1" BSP
- Special non return valve which avoids surges
- Security system avoiding the possibility for the machine to work without water
- Pressure gauge
- Manual start switch (RESET)
- Tension LED (POWER)
- Pump-working LED (ON)
- Security system LED (LOW WATER)

TECHNICAL CHARACTERISTICS

Tension: ~220 ±10% Vac

- Max. Intensity: 30(16)A
- Frequency: 50/60 Hz
- Protection: IP65
- Max. temperature of water: 60° C
- Max. Flow: 10.0001 /h
- Starting pressure: 1,5-2,5 bar
- Max. pressure for use: 10 bar
- Max. Pump power: 220V: 3HP(2200W)

CLASSIFICATION AND TYPE
According to IEC 60730-1 and EN 60730-1this unit is a control electronic device for pressure systems of independent assembly, action type 1 B (micro disconnection). Operating value: flow 1,5 l/min. Degree of contamination 2 (clean environment). Impulse rating voltage: cat 11 / 2500V. Applied temperature for the ball pressure test: enclosure (75°C) and PCB (125°C).
WARNING: NOT TO APPROACH THE CHILDREN AND DISABLED PEOPLE FROM THE DEVICE DURING OPERATION WITHOUT THE PRESENCE OF AN ADULT.

HYDRAULIC CONNECTION (Fig.1)
Before proceeding with the hydraulic connection it is essential to prime the pump correctly. The electronic controller should be installed always in horizontal position with the overmolded arrow pointing to the top, connecting the inlet opening (male 1") directly to the pump and the outlet opening (male 1") to the network.
ATTENTION: The vertical distance between the pump and the highest point of the installation will affect the required pressure to be set on the controller. Use the chart below as a guide when setting the cut in pressure of the controller and also to determine the minimum pressure required from the pump.

USING HEIGHT	ADJUSTMENT PRESSURE	MIN PUMP PRESSURE
10m	1.5 Bar	3 Bar
15m	2 Bar	3.5 Bar
20m	2.5 Bar	4 Bar

The adjustment of the starting pressure is made by the screw placed in the back side of the device (RPC22AD MODEL ONLY. RPC22HM is not adjustable and fixed pressure at 2.5bar cut in) (fig.4)

ELECTRIC CONNECTION (Fig. 2)
Check the power supply to be ~220 ±10% Vac, dismount the cover 1 of the electronic circuit, and make the connections as per diagram on plate 2. The RPC22HM can be used with a single-phase pump with electrical input greater than 16 A.). In this case the electrical connections must be made as shown in the diagram, fig.3
WARNING: Bad connections may spoil the electronic circuit.
HO7RN-F 3G1 ,5 type cables (09+12mm) must be used in order to ensure IP 65 protection.

STARTING
1.- Be sure that the pump is correctly primed, then gently open one tap.
2.- Connect the electronic controller to the electric supply. The tension LED will turn on (POWER).
3.-The pump starts working automatically and within a period of 20-25 seconds the pressure gauge will reach approximately the maximum pressure provided by the pump. During its working the corresponding LED (ON) will be on.
4.-Close the tap indicated on point 1. After 10-12 seconds the pump will stop. The tension LED (POWER) will be the only one to remain on.
Any problem after this procedure will be due to a defective pump priming.

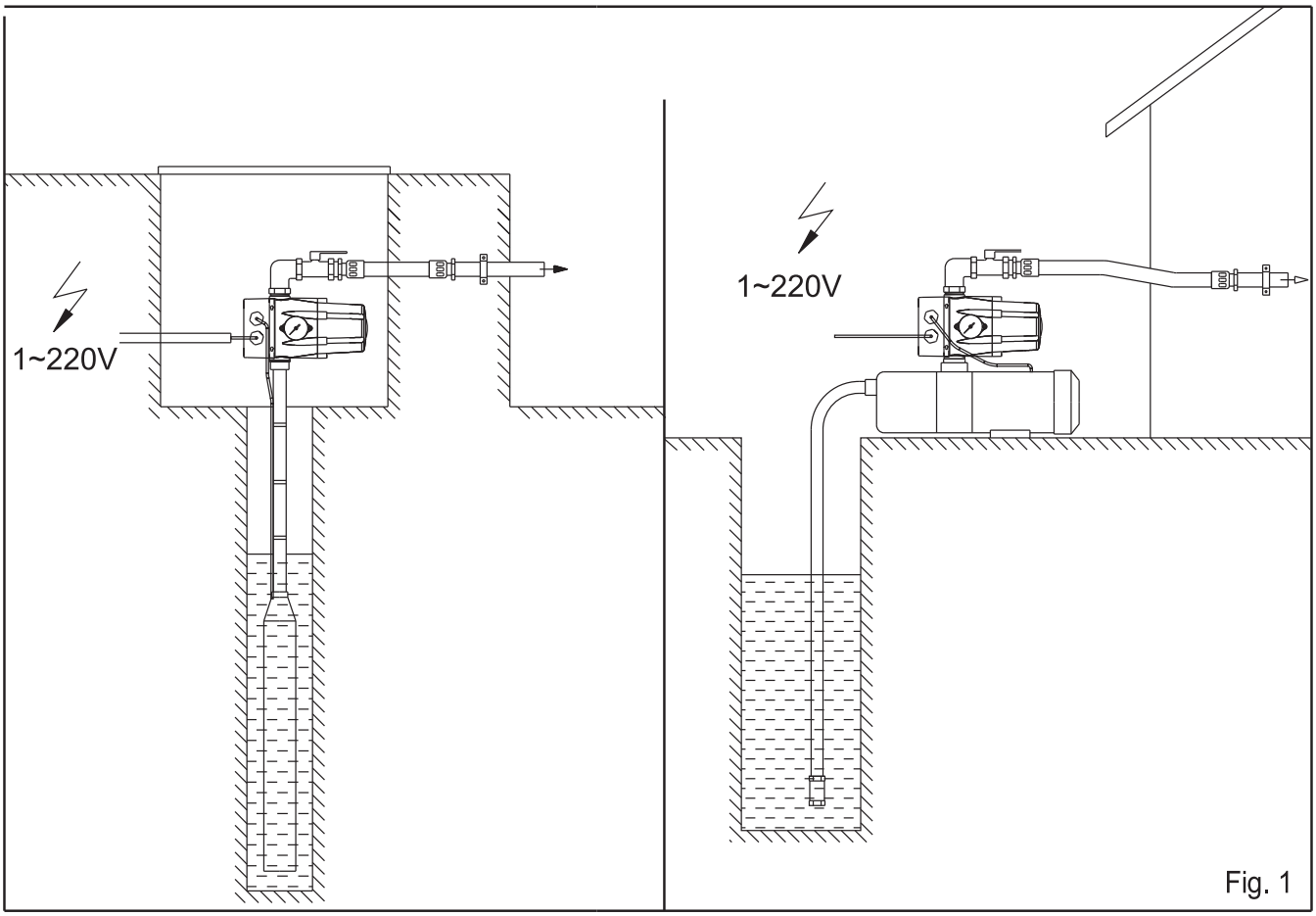


Fig. 1

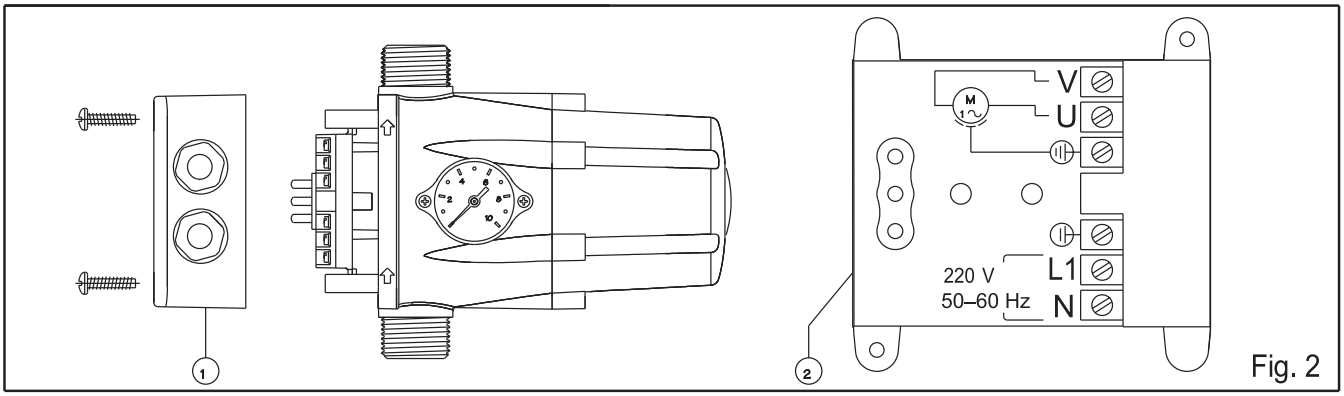


Fig. 2

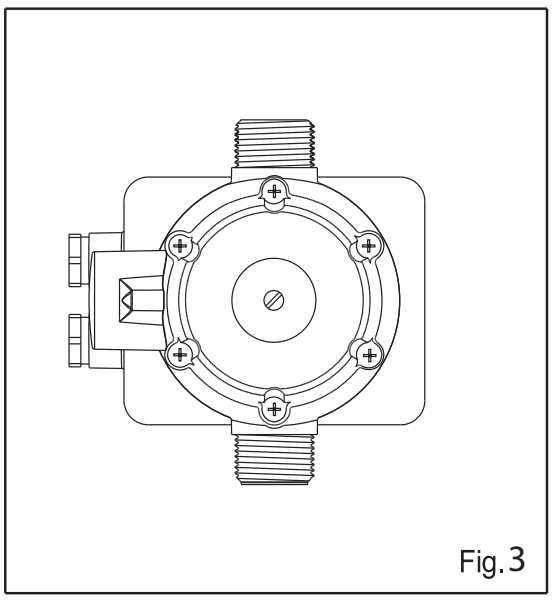


Fig.3

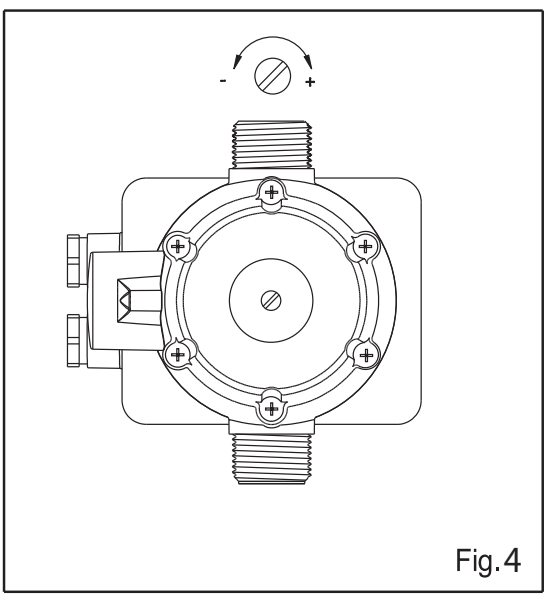


Fig.4

***Only for model RPC22HM.AD**