

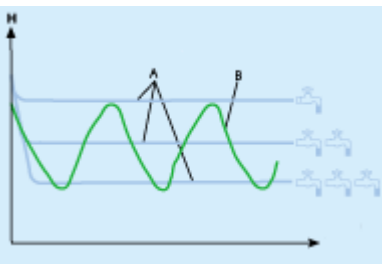
PressControl

***** Technical Data Sheet *****

Features of operation

- Starts and stops the pump when the service is opened or closed, activated or deactivated.
- Maintains pressure at a constant level during operations.
- Shuts off the pump in the event of water failing to reach the inlet.
- Attenuates the effects of hammering.

Table showing comparative pressures [Pump outlet head / Time]



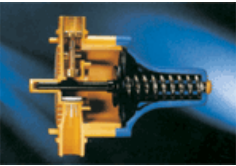
A - Operation with **PressControl**
= **constant pressure**

B - Operation with traditional tank and
pressure switch = **variable pressure**



Features of construction

The Presscontrol comprises a hydraulic section and an electrical control box.



The hydraulic section essentially comprises:

- A moulded housing in reinforced plastic material
- A diaphragm and spring responsive to variations in pressure
- A valve responsive to variations in flow
- A check valve
- A safety valve preventing any leakage of water in the event of the diaphragm breaking down



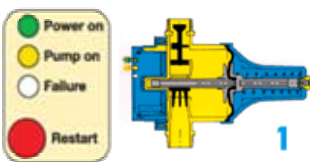
The electrical section essentially comprises:

- A fluid tight box moulded in self-extinguishing plastic material
- An individually tested electronic circuit board with tracks protected by insulating film
- A relay with special contacts and an electrical life expectancy of over 300.000 cycles (continuous rating) at maximum load of 1.5 kW



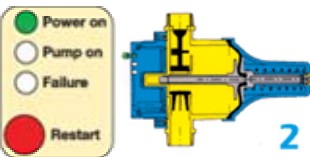
PM46 pump with
a Presscontrol

Operation



The single operating steps of the system are displayed by indicator lights on a small panel at the front of the control box.

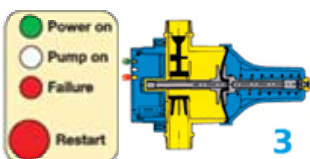
Two of these will light up when the Presscontrol is connected to the electrical power supply: **Power On** (green) and **Pump on** (yellow), indicating that the circuit is powered up and the pump is running (see fig 1). The pump will continue to operate for a few seconds, so that pressure can be established in the system.



At this point the pump will be shut off and switched to the standby condition (green light on), ready to respond to the various monitoring and control signals generated by the system (fig 2).

Whenever a tap or valve is opened at any point of use, the pump will be activated immediately by the **Press-control** unit and continue to run as long as the relative outlet remains open (fig 1).

When the outlet is closed, the **Presscontrol** unit shuts off the pump, returns the system to maximum pressure and reverts to the standby condition (fig 2).



Any irregular operating conditions, such as a dry or blocked inlet line, etc., is recognized by the **Press-control** and indicated by a Failure light (red); the pump will be shut off immediately.

Once the cause of the trouble has been removed, the user need only press the red Restart button to restore normal operation (fig 3).

In the event of a power cut, the **Presscontrol** system will reset and restart automatically when power is restored.