AUTOMATIC REGULATOR FOR PUMPS

Smart Press is an automatic electronic device, designed to regulate pump operation, without using autoclave tanks.
Smart Press performs the following operations:

l)   Controls pump operation, automatically and without interruption, with constant pressure and delivery during supply from one or more distribution points.
The pump starts when the pressure of the system is less than the fixed pressure (std 1.5 bar). Il stops when **Smart Press** no longer detects an appreciable outlet flow (see point 2).

2)   Keeps the pump operating for a brief period (approximately 5 seconds) after supply has stopped at the tap closing.

3)   If there is no water at the suction point, it blocks the pump, without using level probes or float switches. Or it releases automatically when a pressure above the one required to start the motor-driven pump is injected in the delivery line.

**One version of system is identified as
Smart Press WG (where WG is for Water Guardian).
In case of block due to lack of water, this system
effects some tries of automatic random, as equal as pressing
the pushbutton of manual reset, every 30 Min.**

4)   It is supplied with a flow sensor, manufactured with a geometry which reduces the loading losses even with very high flows.

5)   Lights indicate the various operation phases:

green LED on**:** present power supply
yellow LED on**:** pump working
red LED on**:** blocked due to lack of water at supply point

OPERATING CONDITIONS

Model	Smart Press 1,5HP	Smart Press WG 1,5HP	Smart Press 3HP	Smart Press WG 3HP
Maximum working pressure	15 BAR			
Standard starting calibration	1,5 BAR			
Maximum liquid temperature	45° C			
Power supply	115 V ~ 60 Hz			
Maximum current strength	**In 10 A Cos φ ≥ 0,7**		**In 20 A Cos φ ≥ 0,7**	
Protection degree	IP 55			

INSTALLATION

Warning!
During installation, as well as during any maintenance operations, the electrical power supply must be disconnected
by removing the cord or using the switch. The electrical connection must be made by a trained individual following the safety regulations in force.

a)   Normally the **Smart Press** is mounted directly on the delivery point of a surface pump: the device is connected with a l" male, however it can be mounted at any point on the delivery piping (even on a submerged pump) in a vertical or horizontal position. Avoid applying check valves **to the downstream**, **on recommend the application to the upstream**.

b)   The **Smart Press** delivery should be connected to the water supply (1 ¼" female) **on recommend to use** a flexible hose to prevent damage from tightening and /or vibration.

c)   The standard model of **Smart Press works correctly** if the highest point of use **doesn't overcome** 15 meters highs. Change this value using the setting screw (dowel) on the front side of the **Smart Press**.
Turn the screw clockwise to increase the ignition value.
Turn counterclockwise to reduce the ignition value.

d)   Make sure that the pump primes perfectly by filling the body of the pump and suction hose with water. If the pump is going to be used with supply from a low level (well) always install a foot valve.

e)   Perform electric connection observing the serigraphy on the electronic card located in front of the clamps.

TROUBLESHOOTING

THE PUMP JAMS: (red LED on) reset the priming and eliminate the cause of the failure to prime (suction leak, malfunctioning foot valve, tank without water, etc.). Then press the manual reset button being careful not to run the pump with no water to prevent damaging the seal and hydraulic part.
THE PUMP GOES ON AND OFF CONTINUOUSLY: find the leak in the delivery system and eliminate it.
THE EQUIPMENT IS COMPLETELY OFF (NO LIGHT ON) AND WILL NOT START AGAIN: **Check the power supply**. **I**f the board has been removed for replacement or for easier wiring, check if the flux sensor located in the rear part of the board, is properly located in its housing in the main body, while carefully avoiding to crush the feet which cause the board to stop completely.