

AUTOMATIC CONTROL SYSTEM FOR ELECTRIC PUMPS Type FLOW-SYSTEM



User's manual

Automatic control system for electric pumps, with constant pressure and flow

Coupled to the special 4-way joint and fitted on an electric pump, it replaces the 24 lt. membrane tank and provides a considerable saving in space, thanks to its small dimensions. The FLOW SYSTEM principle, which allows to control the pump by the flow not depending on the pressure, improves operation and efficiency of the electric pump as it provides for a constant flow and pressure and the use of the whole range of the electric pump.

It is therefore possible to achieve the same results with less powerful electric pumps than previously thus reducing initial costs, consumption and noise levels.

Even the setting operations, thanks to the FLOW SYSTEM principle, become easier because you only have to fix the starting pressure since FLOW SYSTEM stops the pump relating to the flow, not more to the pressure.

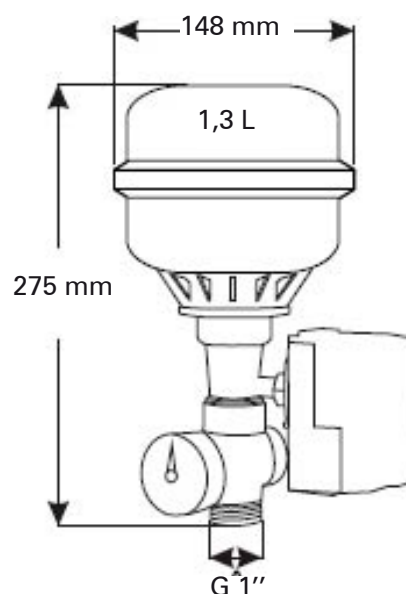
A special device eliminates water leaks caused by faulty seals. Elimination of the membrane and the use of non-toxic high quality raw materials ensure complete non-toxicity and long life. Technical instructions for fitting and maintenance are given in the leaflet provided with every product.

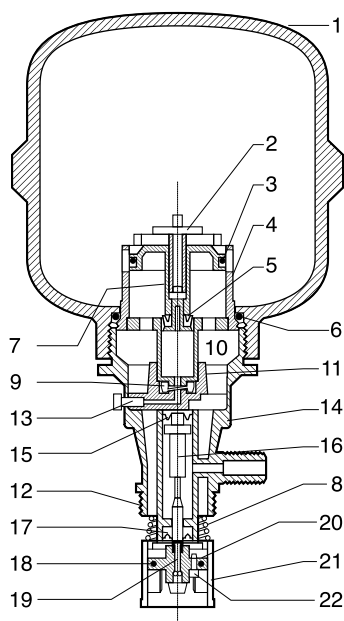
FLOW SYSTEM include tank, 4 way connector manometer and pressure switch.

FLOW SYSTEM is available with «DRY RUNNING PROTECTION SYSTEM» which stops the electric pump if there is no water supply (FLOW SYSTEM SS)

Technical data

Rated voltage	230 V
Rated current	15 A
Pressure max	6 bars
Temperature max	40 °C
Flow max.	120 L/min (7200 L/h)
Connection	4 way 1"





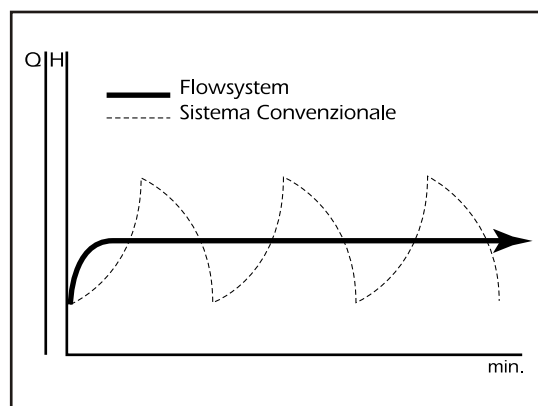
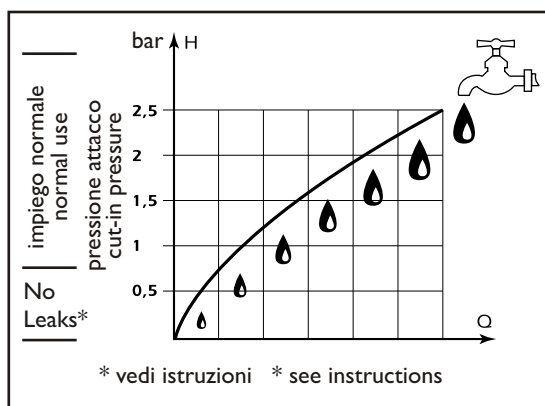
Tank
 NO LEAKS Plug Regulator
 O-ring n°4131
 Calotte
 UM- Seal
 O-ring n°4187
 Air Piston
 Spring
 UM- Seal
 Air Cylinder
 Air Base

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O-ring n°3112
 Air inlet barrel
 BODY
 UM- Seal
 Flow sensing rod
 UM- Seal
 Splitring
 Screw
 Flow sensing disk
 Flow sensing cage
 Cut out flow plug

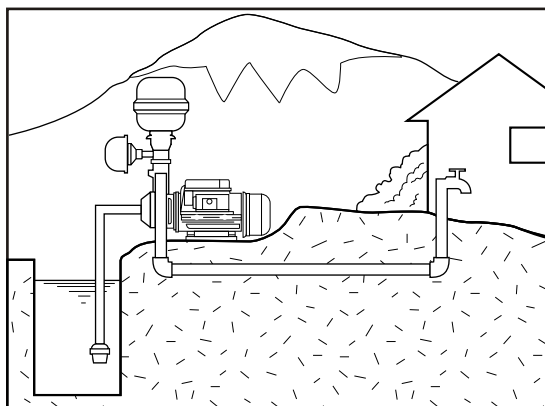
To eliminate the water dribbles it is necessary to set Flowsystem unit to no leaks mode and the cut-in pressure below 0,5 bars from the utilization level.

Pressure and flow course comparison between a traditional system and Flowsystem.

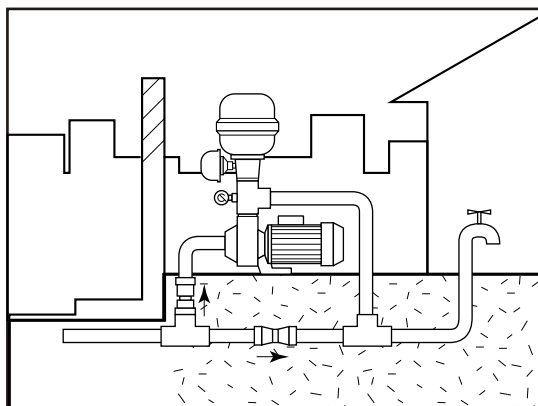


This system is one of the most advanced in the world. It allows to use the whole range of the electric pump characteristics.

Very important: cut out pressure should be set as near as possible to the maximum pressure of the electric pump



Connection from wells



Urban By Pass