



F30 Pump Controller Flow Switch

The F30 is a versatile pump controller that integrates flow and pressure. The F30 brings the advantages of constant flow and dry run protection to traditional pressure systems

DESCRIPTION:

The F30 Pump Controller is a digital electronic flow switch that monitors both flow and pressure. When included in a pressure system the F30 vastly improves overall performance and gives the benefit of both constant flow and dry run protection. Pressure systems normally use pumps with steeply varying pressures, not because this gives the user any advantage but simply because a high differential pressure is required to operate the pressure switch that normally controls such pumps. The user sees the effect as fluctuations in pressure at the tap. If loss of prime occurs a pump controlled by a pressure switch will run dry and invariably sustain damage.

THE F30 PUMP CONTROL:

The F30 Pump Controller offers a far better approach. The pump starts on flow as soon as there is a modest demand. When demand ceases the F30 continues to run the pump for a settable length of time sufficient to recharge the system's air cell. Such a system allows the selection of a pump that has a flat curve and delivers a steady constant pressure over widely varying flows. An air cell with a very small draw off can be used in such a system. There only has to be sufficient stored pressure to re-actuate the F30 controller the next time there is a demand. With the F30 system the external pressure switch is set to start the pump at a pressure only slightly higher than the system's static pressure. If the demand is too low to actuate the F30's paddle, or if for any reason the pressure falls, eventually the pressure switch will close and signal the F30 to start the pump. The F30 then runs the pump for a preset time, recharges the air cell, switches off the pump and reverts to standby mode.

DRY RUN PROTECTION:

A pump running under the control of an F30 will start if the pressure drops or if a tap is turned on. If the system subsequently runs out of water the F30 senses the loss of flow and the lack of pressure and immediately stops the pump. A red warning light on the controller then flashes rapidly to indicate there is a problem. The pump will not restart until the power to the F30 is turned off and back on. The pump will then run for a settable time and again test the system for pressure and flow. If the pump is still running dry the F30 will again automatically shut it down. If flow has been restored the pump will continue to run until either the flow demand ceases or until the system is fully pressurized. Run on Timer Control Start up Timer Control Pressure switch LED Paddle and Alarm LED Timer LED

TECHNICAL DATA

CONSTRUCTION: The F30 controllers have no metal parts in contact with liquids. They operate magnetically through their thermoplastic housings. They are therefore ideally suited to use in aggressive ground water, seawater or chlorinated water and with a huge variety of chemical solutions including most acids and alkalis. The F30 is made from a blend of ABS and polypropylene thermoplastics, specifically tailored to give the highest possible performance, in terms of mechanical strength, ultraviolet stability, and chemical inertness. All the F30 controllers use our well proven magnetic suspension system, to give both a frictionless spring return action to the paddle, and total isolation of the electronic module. The microprocessor-based electronics built into the F30 have both brown out and over voltage protection built-in.

INSTALLATION: The F30 pump controller can be fitted to any type of pipe, 25mm (1 inch) diameter or larger and should be mounted in a straight section of the pump's discharge pipe, downstream of the air cell. A 1" BSP female thread socket or tee must be provided to fit the controller.

Available from:

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