



Helco Time Delay Flow Switch

- Dry run protection for pumps
- Adjustable start-up override
- Adjustable paddle bounce ignore
- No metal parts in contact with fluids
- 240v, 24vac and 12vdc models available
- Indicator LED's for all functions
- Reliable proven construction
- Weatherproof enclosure
- Suits pipe sizes 25mm and above
- 18 bar (260 psi) pressure rating stainless models available

Applications: The F27 time delay flow switches are paddle switches with built-in digital timers that override the normally off state of the flow switch and allow a pump to start in spite of an initial lack of flow. They also include an adjustable run-on timer that lets a pump ignore minor flow interruptions while still being fully protected against running dry. When first powered up the F27 ignores the initial lack of flow and allows a pump under its control to run for up to 3 minutes. At the end of the set time the F27 will shut down the pump if there is no flow or allow it to run on if flow has been established.

Construction: The F27 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 F27 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 F27 controllers use our well proven magnetic suspension system, to give a frictionless spring return action to the paddle, and total isolation of the electronic module. The electronics built into the F27 are both brown out and voltage surge protected.

Installation: The F27 controller can be installed in either the suction or discharge pipe of the pump. Normally they are installed in a straight section of the discharge pipe. A 1" BSP socket or tee must be provided to fit the controller. The controllers are suitable for all types of pipework 25mm (1 inch) diameter or larger.

Over-Ride on Start: When powered up, the F27 turns on the pump and lets it run for a settable time in spite of a lack of initial flow. It expects to see its paddle pushed into the on position by flow during the start up time. If flow is not established by the end of the set time period the F27 shuts down the pump, thus preventing it from running dry. The override on start time is adjustable in 16 steps from 1 second to 3 minutes. Normally a time setting of a few seconds is all that is required to start a pump. The extra long start up time settings can be used to start submersible bore pumps with self draining risers and in any situation where a long delay in flow stabilization may be encountered.

Paddle Bounce Ignore: The F27 has an adjustable run-on function so that minor fluctuations in flow don't cause the pump to instantly stop. The run-on function is adjustable in 16 steps from zero to 5 minutes. A setting of a few seconds run-on is all that is normally needed to ignore minor flow interruptions. The extra long run-on feature can be used to allow the pump to pressurize high volume piping systems, to charge air cells or to pump down low yield bores at very low flow rates.

Available from:

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