# F SERIES CORROSION RESISTANT FLOW SWITCHES FOR ALL PIPE SIZES 25mm (1") AND LARGER 

## FEATURES

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\square to 500V AC 15 Amp S.P.D.T switch
L Low Voltage Gold contact model also available
\square16 Stainless or Polypropylene models
\square 3/4" & 1" models available with BSP or NPT threads
\square Manual override built in
M Modular construction
High pressure 400 Bar 5800 psi models available
Seal-less magnetic drive
Weatherproof IP67 housing
\square Easily serviceable
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## OUTLINE

The F series flow switch is a tough but highly sensitive paddle switch suitable for a wide range of flow control applications in both hot and cold liquids. The electrical housing of the switch is a separate assembly and locks onto the wet end of the switch. It can be easily and safely removed for servicing, without disturbing electrical wiring. This unique feature, and the inclusion of a built in manual override make the F series a very versatile flow switch.

The electrical module of the $F$ series flow switch is completely separate from the process connection and wet end of the switch. The wet end assembly and the electrical module lock together with a single externally accessible screw. This feature allows the flow switch to be disassembled and unscrewed from pipework without the need to disturb electrical wiring. All F series flow switches are supplied with a glass fibre reinforced paddle. The paddle can be cut and shaped as required to suit pipework 25 mm (1") or larger. A unique feature of the $F$ seies flow switch is its built in manual override. The manual override allows the flow switch to be switched on at any time at the press of a button regardless of lack of flow. Using the manual override allows pumps to be manually started at any time by simply pressing the button. It also makes the testing and commissioning of systems very simple.

## ORDERING



Please Note: 20 mm fittings are only available in 316 Stainless


Our well proven magnetic repulsion system is built into each F series flow switch and couples the paddle's movement to the high compliance switch through a double wall of solid material. The result is a high-pressure flow switch with no seals, diaphragms or bellows or other points of potential failure. The F series flow switch is available with a 316 stainless steel or Polypropylene high pressure process connection. There are models to suit most applications including use in seawater, bore water, acids, and alkalis and in many chemical solutions.

## F SERIES DATA

## ELECTRICAL DATA

The F series flow switch houses a S.P.D.T (Single Pole Double Throw) switch. The standard switch is suitable for all general control circuit applications up to 500 V AC. It is ideal for the control of pump starters, relay logic circuits, and for the direct control of contactors and timers.

IMPORTANT
The standard H switch can operate at ANY voltage from 5 to 500 VAC . It can be used to directly control pump motors up to 375 Watts ( 0.5 HP ) at 240VAC. For larger motors always use an interposing contactor or relay between the flow switch and the motor.

ELECTRICAL LIMITS FOR THE STANDARD H SWITCH

| Electrical Data |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATED VOLTAGE | NON INDUCTIVE LOADS |  |  |  | INDUCTIVE LOADS |  |  |  |
|  | RESISTIVE LOAD |  | LAMP LOAD |  | $\begin{aligned} & \text { INDUCTIVE } \\ & \text { LOAD } \end{aligned}$ |  | MOTOR LOAD |  |
|  | NO | NC | NO | NC | NO | NC | NO | NC |
| 125 VAC | 15A |  | 3A | 1.5A |  |  | 5A | 2.5A |
| 250 VAC | 15A |  | 2.5A | 1.25A |  |  | 3A | 1.5A |
| 500 VAC | 10A |  | 1.5A | 0.75A |  |  | 1.5A | 0.75 |
| 8 VDC | 15A |  | 3A | 1.5A |  |  | 5A | 2.5A |
| 14 VDC | 15A |  | 3A | 1.5A |  |  | 5A | 2.5A |
| 30 VDC | 6A |  | 3A | 1.5A |  |  | 5A | 2.5A |
| 125 VDC | 0.5A |  | 0.5A | 0.25A |  |  | 0.05A | 0.05A |
| 250 VDC | 0.5A |  | 0.5A | 0.25A |  |  | 0.03A | 0.03A |

In addition to the standard switch, a S.P.D.T. switch with gold contacts, designated " L " is also available for low voltage and low wetting current signalling applications.

## ELECTRICAL LIMITS FOR THE L SWITCH

| Maximum Switched Voltage | 30 VDC |
| :--- | :--- |
| Maximum Switched Current | 26 mA |
| Minimum Switched VoItage | 5 VDC |
| Minimum Switched Current | 1 mA |



## APPROVED STANDARDS

The standard single pole double throw switch used in the $F$ series flow switch is approved to the following international standards: UL (File No. E32667), CSA (File No. LR21642) SEV (File No. S20/163) and CE.

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