



WEBTEC

WEBSTER INSTRUMENTS
(A DIVISION OF WEBTEC PRODUCTS)

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In-Line Flow Indicator with Electrical Switch

- 4 gpm
- 8 gpm
- 12 gpm
- 32 gpm
- 50 gpm

- Up to 6000 psi

Webster Flow Switches are designed for continuous monitoring of Systems up to 6000 psi and flows from 0.25 to 50 gpm. These direct acting flow switches can be installed in pressure or return lines.

The switch can be used for any application where the flow must be controlled within certain limits and where a remote warning is required. A typical application could be giving WARNING of low or high flow condition for bearing lubrication or cooling water used in injection molding and die casting machines.

The easily adjustable switch setpoint can be used as a control input to high power relays. Electrical connections are made via the standard Hirschman 43650 connector. An optional thermometer is set in rubber compound and angled deep in the block to sense the temperature changes in the fluid passage. The dials are clear and easy to read. The whole unit is sealed and extremely rugged.



Features

- **LOW** cost rugged design
- **Oil or Water** 0.25 - 50 gpm
Consult Sales Office for switches up to 100 gpm
- **DIRECT** reading
- **6000 psi** working pressure
- **LARGE** easy to read dial
- **ACCURACY** better than 4% FSD
- **SWITCH** repeatability better than 2% FSD
- **EASY** switch adjustment
- **THERMOMETER** 80 °C 180 °F
- **SWITCH** rating 0.5 Amps - 90 V DC Max
0.5 Amps- 50VAC Max
5 watts AC or DC

Consult Sales Office for higher switch rating.

- **WIDE** operating range.
- **PRESSURE** gauge port standard

Another quality product from the Webster Range

Flow Switch for FI Series Flow Indicators

Operation

The flow switch incorporates a magnetic reed switch which is opened and closed by the magnetic field of the flowmeter piston.

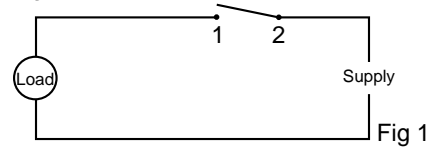
The switch can be set for normally open or closed depending on the position of the flow switch. It can be adjusted to the required flow setting, as shown on the flowmeter dial

Wiring

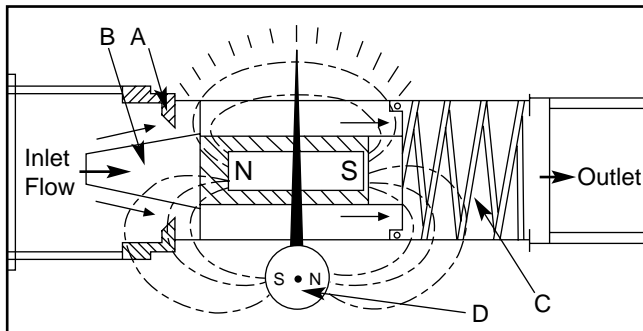
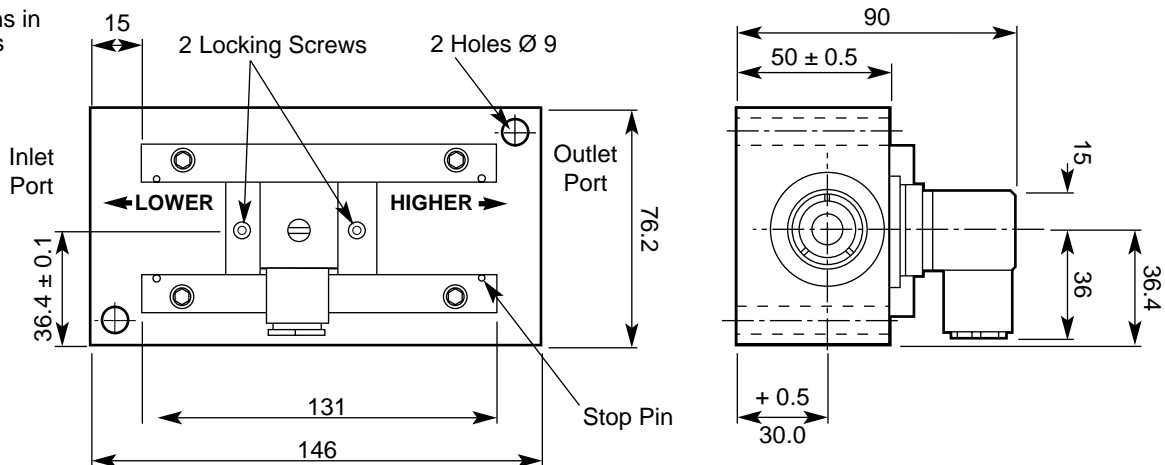
The switch is single pole and wired in series as shown.

Please note inductive loads are not recommended.

Consult Sales Office for flow switches with flow ranges of 50, 80 or 100 gpm

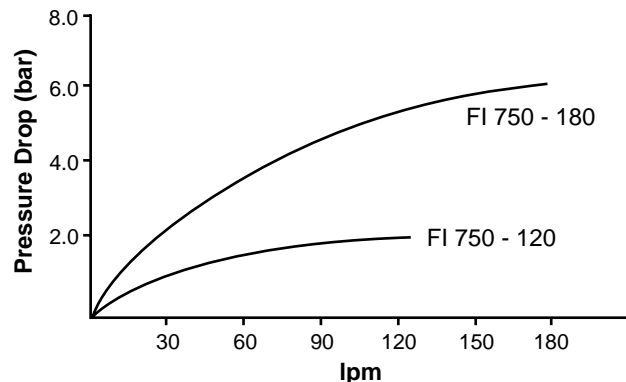
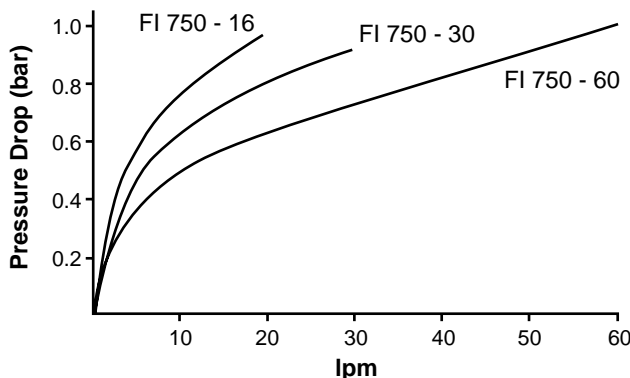


Dimensions in millimetres



The flow indicator consists of a sharp edged orifice (A) and tapered metering piston which moves in proportion to changes in flow rate. In the no flow condition the metering piston (B) is at the minimum orifice position and the pointer indicates zero. With increasing flow the pressure difference across the variable orifice, (formed by the metering piston and fixed orifice), moves the piston against a calibrated spring (C). The piston movement is directly proportional to flow rate and the sharp edge orifice minimizes the effects of viscosity.

The piston (B) is magnetically coupled to the rotary pointer assembly (D) and will not de-couple under surge flow conditions. The flow rate registers on the large 2.5" diameter scale calibrated in gpm & lpm.



How to order

Select the FI750 series flowmeter and append model code with 'S'. e.g. FI750-120-ASO-S

