

In-Line Flow Indicator with Electrical Switch

Up to

- 180 lpm, 48 US gpm
- 420 bar, 6000 psi

Flow Switches are designed for continuous monitoring of Systems up to 420 bar, 6000 psi and flows from 4 to 180 lpm. 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 flow for bearing lubrication or cooling water used in injection moulding and die casting machines.

The switch is fully adjustable and can also be set to operate if high flow is demanded on hydraulic ring main circuits. 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.



Manufacturers of hydraulic components and test equipment
for the Mobile, Industrial and Agricultural industries



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Features

- **LOW** cost rugged design
- **Oil or Water** 1 - 180 lpm
Consult Sales Office for
switches up to 400 lpm
- **DIRECT** reading
- **420 bar** 6000 psi 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



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.

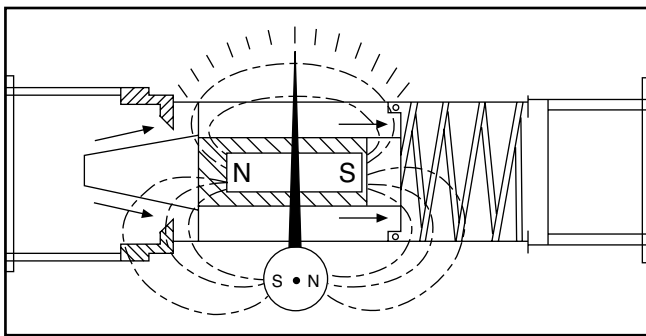
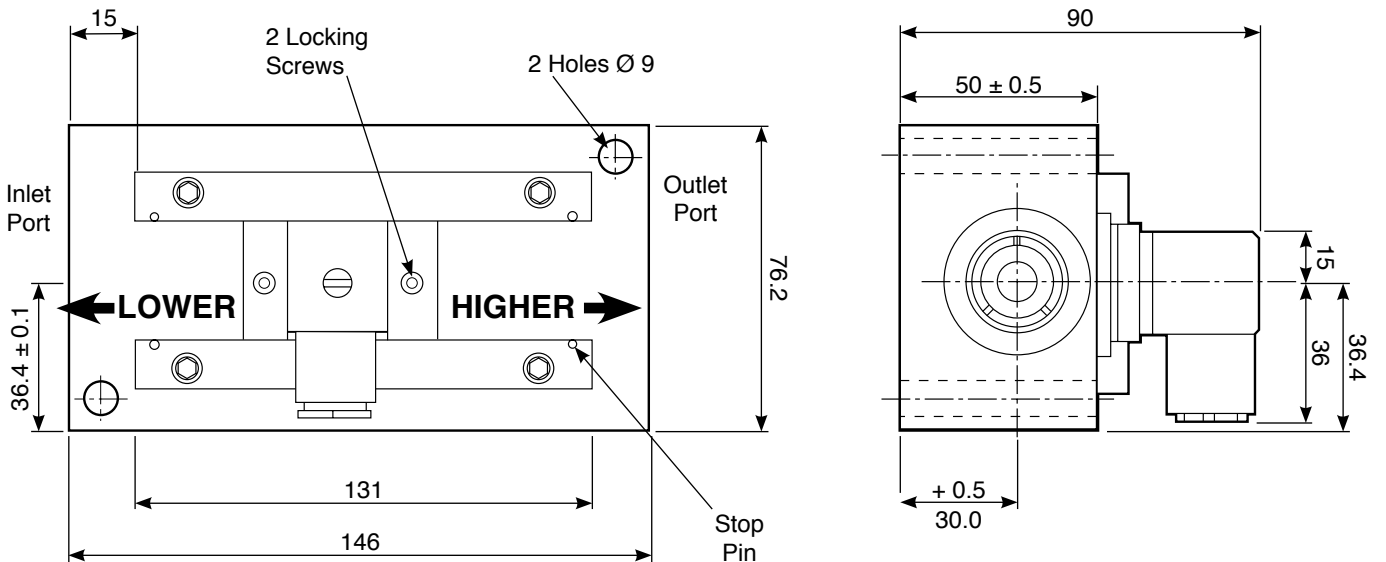
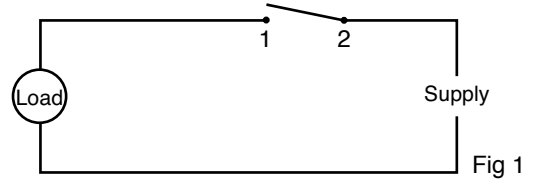
The switch can be set for normally open or closed depending on the position of the flow switch. It can be adjusted to the required flow setting, as shown on the flowmeter dial

Wiring

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

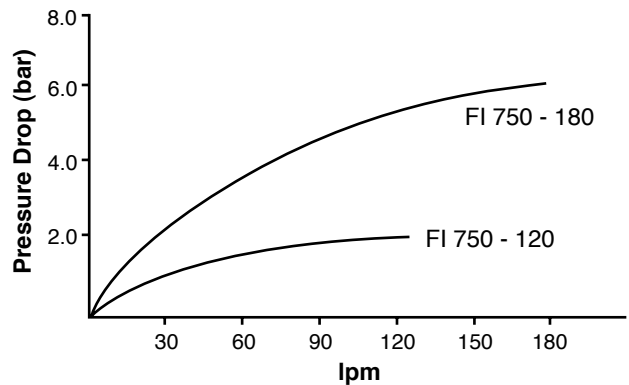
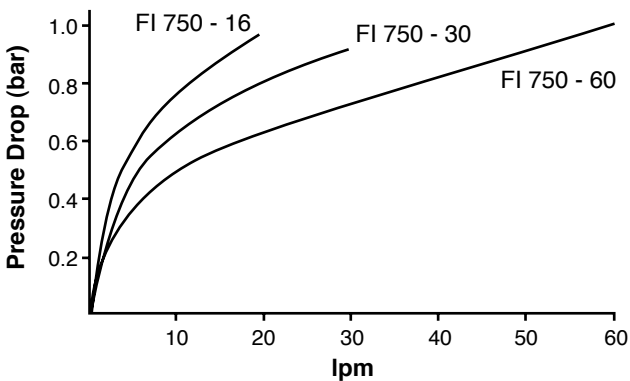
Please note inductive loads are not recommended.

Consult your Sales Office for flow switches 200 - 400 lpm, FI 1500 Series.



The flow indicator consists of a sharp edged orifice and tapered metering piston which moves in proportion to changes in flow rate. In the no flow condition the metering piston 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. The piston movement is directly proportional to flow rate and the sharp edge orifice minimises the effects of viscosity.

The piston is magnetically coupled to the rotary pointer assembly which registers on a clear 63mm (2 1/2") diameter scale, calibrated in lpm and gpm.



How to order

Select the flow indicator for oil or water as shown on page 4 and 6. Specify the optional switch and required flow settings.



APPROVED