

# FI750 Series

## In-Line Flow Indicator

Up to

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

Flow Indicators are designed for continuous monitoring or intermittent use commissioning and servicing hydraulic systems up to 420 bar, 6000 psi.

The large clear 63mm (2 1/2") diameter dial ensures that quick checks can be made to determine pump performance and setting of flow control valves. They can be used on mobile and industrial hydraulic circuits. Also lubrication and coolant systems using oil.

These direct acting flow indicators can be installed in hazardous areas or on applications where no power is available. The flow indicator design ensures good reliability and minimises the effects of contamination.

The flow indicator consists of a sharp edged orifice and tapered metering piston.

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") scale displayed in lpm and USgpm.

The FI750 flow indicators should not be installed in circuits where the flow is reversed.

See RFI series for reversible operation.



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### Features

- **FLOW:** 2 - 180 lpm, 0.5 - 48 US gpm
- **PRESSURE:** 420 bar, 6000 psi
- **ACCURACY** within 4% FSD
- **BUILT-IN** thermometer available
- **DIRECT** reading
- **DUAL** scale lpm/US gpm
- **HORIZONTAL** or vertical mounting
- **LARGE** clear dial
- **LOW** cost rugged design
- **PRESSURE** gauge port
- **WIDE** operating range



Hydraulic measurement and control

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## Specifications

Model Number with temperature	Model number without temperature	Calibrated flow range		Main ports	Top port	Max pressure
		LPM	US gpm			
FI750-16ABOT	FI750-16ABO	2 - 16	0.5 - 4	3/4" BSPP	1/4" BSPP	420 bar
FI750-30ABOT	FI750-30ABO	2 - 30	0.5 - 8	3/4" BSPP	1/4" BSPP	420 bar
FI750-60ABOT	FI750-60ABO	2 - 60	0.5 - 16	3/4" BSPP	1/4" BSPP	420 bar
FI750-120ABOT	FI750-120ABO	4 - 120	1 - 32	3/4" BSPP	1/4" BSPP	420 bar
FI750-180ABOT	FI750-180ABO	10 - 180	4 - 48	3/4" BSPP	1/4" BSPP	420 bar
FI750-16ANOT	FI750-16ANO	2 - 16	0.5 - 4	3/4" NPSF	1/4" NPTF	6000 psi
FI750-30ANOT	FI750-30ANO	2 - 30	0.5 - 8	3/4" NPSF	1/4" NPTF	6000 psi
FI750-60ANOT	FI750-60ANO	2 - 60	0.5 - 16	3/4" NPSF	1/4" NPTF	6000 psi
FI750-120ANOT	FI750-120ANO	4 - 120	1 - 32	3/4" NPSF	1/4" NPTF	6000 psi
FI750-180ANOT	FI750-180ANO	10 - 180	4 - 48	3/4" NPSF	1/4" NPTF	6000 psi
FI750-16ASOT	FI750-16ASO	2 - 16	0.5 - 4	1 - 1/16" - 12 UNF #12 SAE ORB	1/4" NPTF	6000 psi
FI750-30ASOT	FI750-30ASO	2 - 30	0.5 - 8	1 - 1/16" - 12 UNF #12 SAE ORB	1/4" NPTF	6000 psi
FI750-60ASOT	FI750-60ASO	2 - 60	0.5 - 16	1 - 1/16" - 12 UNF #12 SAE ORB	1/4" NPTF	6000 psi
FI750-120ASOT	FI750-120ASO	4 - 120	1 - 32	1 - 1/16" - 12 UNF #12 SAE ORB	1/4" NPTF	6000 psi
FI750-180ASOT	FI750-180ASO	10 - 180	4 - 48	1 - 1/16" - 12 UNF #12 SAE ORB	1/4" NPTF	6000 psi

Note - All NPTF threads are to ANSI B1.20.3 -1976 Class 1. As stated in the standard it is recommended that "sealing is accomplished by the means of a sealant applied to the thread". NPT fittings may also be used to connect to NPTF ports (also with a sealant applied to the thread)

### Functional specification

<b>Ambient temperature:</b>	-10 to 50°C ( 14 to 122°F)
<b>Fluid type:</b>	Hydraulic oils
<b>Fluid temperature:</b>	20 to 80°C (65 - 176°F) continuous use. Intermittently (<10 minutes) up to 110°C (230°F)
<b>Accuracy:</b>	
<b>Flow:</b>	± 4% of full scale
<b>Temperature:</b>	± 2.5°C (±5°F)
<b>Dimensions:</b>	146 x 74 x 49mm (5.75" x 2.9" x 1.92")
<b>Weight:</b>	1.4 kg (3.1 lbs)

### Construction material

<b>Main block:</b>	Aluminium 2011T3
<b>Internal parts:</b>	Mainly brass
<b>Seals:</b>	Viton

### Operation

The flow indicator consists of a sharp edged orifice and tapered metering piston. The piston movement is directly proportional to the 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 63 mm (2.5") scale displayed in lpm and USgpm. The FI750 flow indicators should not be installed in circuits where the flow is reversed. See our RFI series for reverse flow capability.

### Calibration

All units are calibrated with 28cSt oil as standard. Calibration certificates are available on request - this is a chargeable option. Other calibration on request - please consult sales office.

### Installation

The unit can be installed in any position, horizontal, vertical or anywhere in between. The unit is designed to panel

### Performance

Typical pressure drop curves. Oil viscosity 25 centistokes. (1 bar = 14.5 psi, 10 lpm = 2.64 US gpm)

