

FI1500 Series

In-Line Flow Indicator

Flow Indicators are designed for continuous monitoring or intermittent use commissioning and servicing hydraulic systems up to 350 bar, 5000 psi.

The large clear 63mm 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 FI 1500 flow indicators should not be installed in circuits where the flow is reversed.

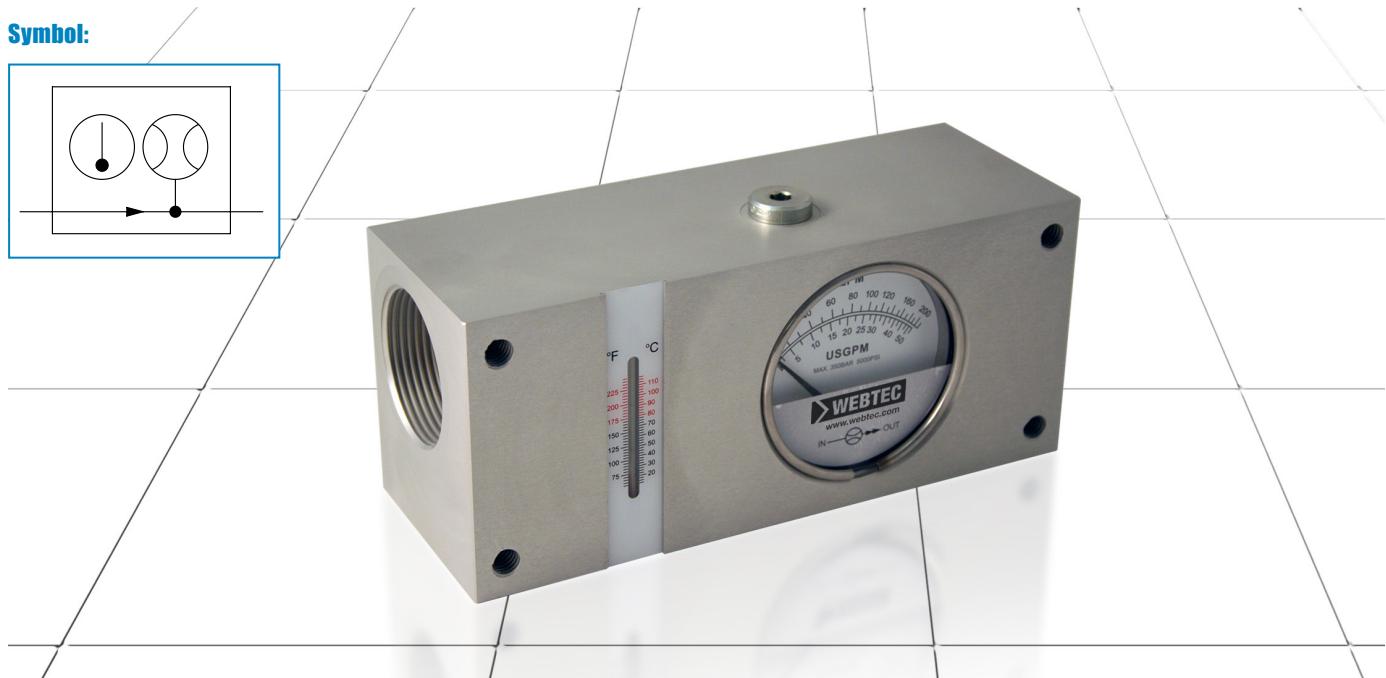
Specifications

Maximum Rated Pressure:	Up to 350 bar, 5000 psi
Maximum Rated Flow:	Up to 400 L/min, 100 US gpm
Ambient Temperature:	-10 to 50°C, 14 to 122°F
Porting:	BSPP, SAE
Material:	Body Materials: Aluminium 2011T6
Internal Materials:	Mainly Brass
Seals:	FKM
Weight:	3.2 kg, 7 lb

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Features

- Accuracy within 4% FSD
- Built-in thermometer available
- Dual scale L/min/US gpm
- Large clear dials
- Horizontal or vertical mounting
- Rugged design
- Pressure gauge port
- Wide operating range



Sales Order Code

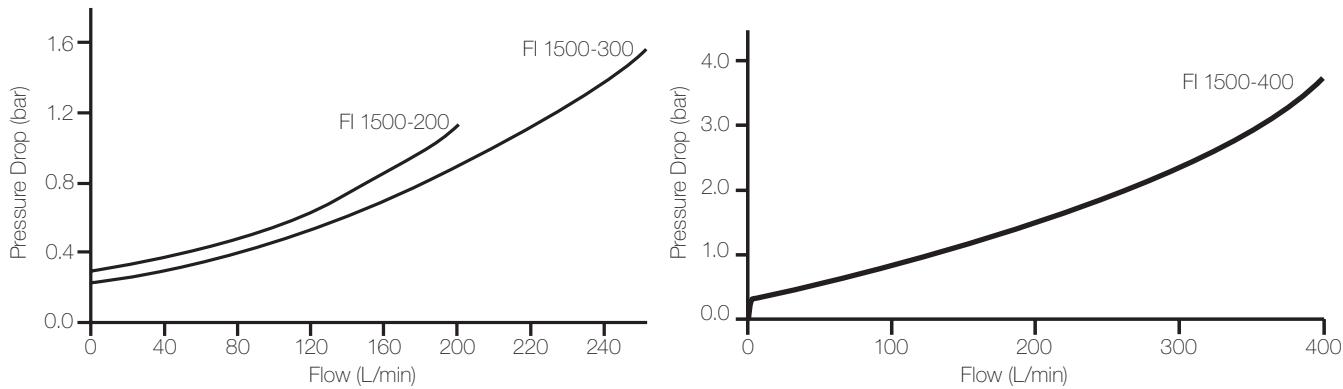
Please contact our technical sales to team to discuss any special order requirements.

MODEL NUMBER		CALIBRATED FLOW RANGE		MAIN PORTS	TOP PORTS	MAX RATED PRESSURE
WITH TEMPERATURE	WITHOUT TEMPERATURE	L/MIN	US GPM			
FI1500-200ABOT	FI1500-200ABO	10 - 200	5 - 50	1-1/2" BSPP	1/4" BSPP	350 bar
FI1500-200ASOT	FI1500-200ASO	10 - 200	5 - 50	1-7/8" -12UN #24 SAE ORB	1/4" NPTF	5000 psi
FI1500-300ABOT	FI1500-300ABO	20 - 300	4 - 80	1-1/2" BSPP	1/4" BSPP	350 bar
FI1500-300ASOT	FI1500-300ASO	20 - 300	4 - 80	1-7/8" -12UN #24 SAE ORB	1/4" NPTF	5000 psi
FI1500-400ABOT	FI1500-400ABO	20 - 400	5 - 100	1-1/2" BSPP	1/4" BSPP	350 bar
FI1500-400ASOT	FI1500-400ASO	20 - 400	5 - 100	1-7/8" -12UN #24 SAE ORB	1/4" NPTF	5000 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)

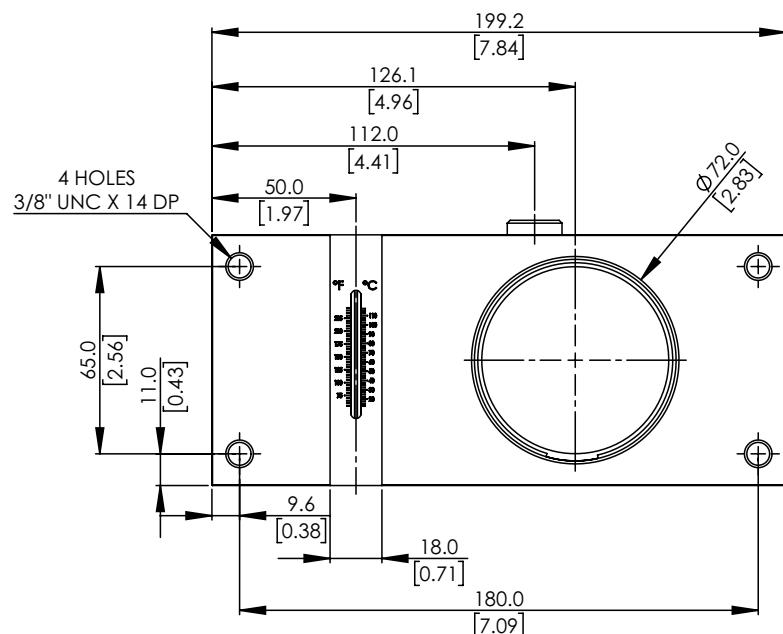
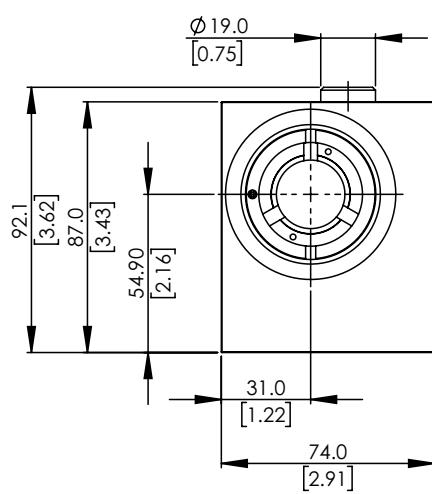
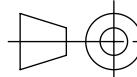
Typical Pressure Drop Curves

All tests completed using ISO32 Mineral oil at 25 cSt



Installation Details

Dimensions in mm [Inches]



Functional Specification

Ambient Temperature range:	-10 to 50°C, 14 to 122°F
Compatible Fluids:	Mineral oils to ISO 11158. Other fluids consult sales office.
Fluid Temperature Range:	20 to 80°C, 65 to 176°F continuous use. Intermittently (<10 minutes) up to 110°C, 230°F.
Accuracy:	
Flow:	± 4% of full scale
Temperature:	± 2.5°C (±5°F)

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 1/2") scale displayed in L/min and US gpm. The FI750 flow indicators should not be installed in circuits where the flow is reversed.

Calibration

All Flow Indicators calibrated at a mean viscosity of 28cSt using ISO32 hydraulic mineral oil to ISO11158 category HM. 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 mount or pipe mount. When panel mounting ensure that rear and bottom faces of the unit are at least 12 mm (1/2") from any ferrous material such as an iron panel or base. The piston contains a magnet that can be affected by close proximity of ferrous material. The front face can be mounted directly to ferrous panels.

The indicator can be connected into pressure or return lines, however, do not reverse flow; the flow indicator may be damaged and will act as a non return valve.

All hydraulic connections should be made by suitably trained personnel.

Accessories

Pressure gauge fitted directly into block or remotely connected by micro bore hose, see pressure gauge bulletin.

Webtec reserve the right to make improvements and changes to the specification without notice