



POMIAR PRZEPIYWU CIECZY

Przepływomierze
Webtec typ FI / RFI

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.



Hydraulic measurement and control



Milwaukee, WI 53235, USA

Tel: +1 (414) 769-6400
sales-us@webtec.com

St. Ives, Cambs. PE27 3LZ, UK

Tel: +44 (0) 1480 397 400
sales-uk@webtec.com

www.webtec.com

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



Certificate No.8242

FI750ABO-BU-ENG-1943.pdf 07/16
(Issue 3)

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

Ambient temperature:	-10 to 50°C (14 to 122°F)
Fluid type:	Hydraulic oils
Fluid temperature:	20 to 80°C (65 - 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)
Dimensions:	146 x 74 x 49mm (5.75" x 2.9" x 1.92")
Weight:	1.4 kg (3.1 lbs)

Construction material

Main block:	Aluminium 2011T3
Internal parts:	Mainly brass
Seals:	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

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. Two 9 mm (0.35") diameter holes are provided for this purpose.

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.

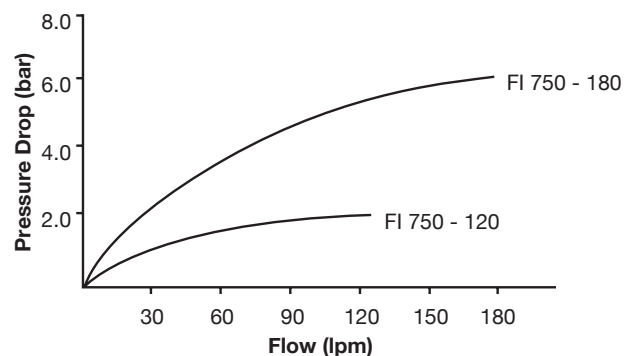
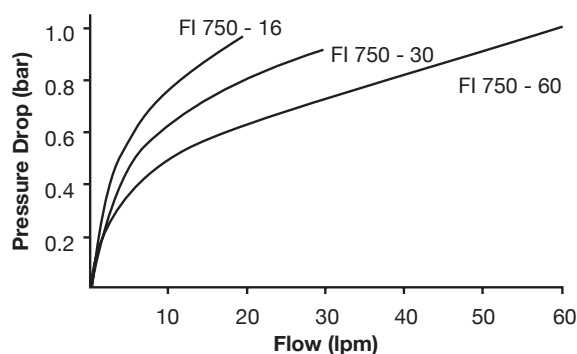
All hydraulic connections should be made by suitably trained personnel.

Accessories

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

Performance

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



FI1500 Series

In-Line Flow Indicator

Up to

- 400 lpm, 100 US gpm
- 350 bar, 5000 psi

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 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 FI 1500 flow indicators should not be installed in circuits where the flow is reversed.

See RFI series for reversible operation.



Milwaukee, WI 53235, USA

Tel: +1 (414) 769-6400
sales-us@webtec.com

St. Ives, Cambs. PE27 3LZ, UK

Tel: +44 (0) 1480 397 400
sales-uk@webtec.com

www.webtec.com

Features

- **FLOW:** 10 - 400 lpm, 4 - 100 US gpm
- **PRESSURE:** 350 bar, 5000 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

FI1500AB-BU-ENG-1978.pdf 11/13
(Issue 2)

Specifications

Model Number with temperature	Model number without temperature	Calibrated flow range		Main ports	Top port	Max pressure
		LPM	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)

Functional specification

Ambient temperature:	-10 to 50°C (14 to 122°F)
Fluid type:	Hydraulic oils
Fluid temperature:	20 to 80°C (65 - 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)
Dimensions:	199 x 87 x 74mm (7-7/8" x 3-1/2" x 3")
Weight:	3.2 kg (7 lbs)

Construction material

Main block:	Aluminium 2011T3
Internal parts:	Mainly brass
Seals:	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 flow indicators should not be installed in circuits where the flow is reversed.

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 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. Four mounting holes are provided for this purpose.

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.

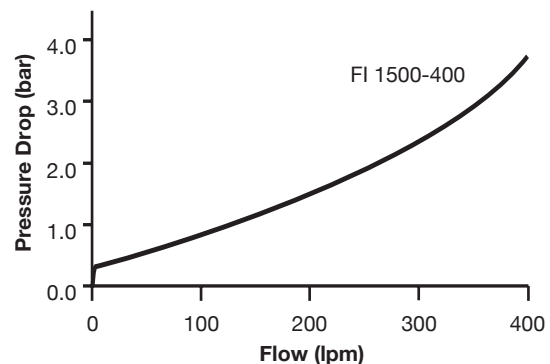
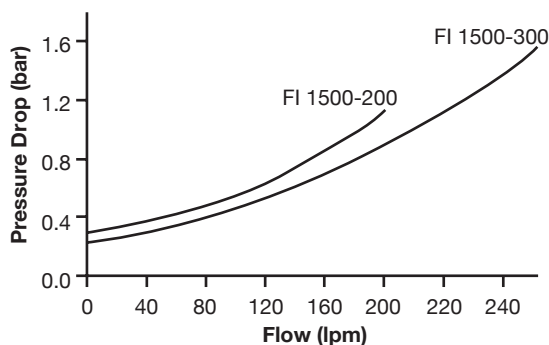
All hydraulic connections should be made by suitably trained personnel.

Accessories

Pressure gauge fitted directly into block or remotely connected by micro bore hose - See pressure gauge bulletin

Performance

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



RFI Series

Reversible Flow Indicator

Up to

- 200 lpm, 54 gpm
- 420 bar, 6000 psi

The RFI reversible flow indicator is designed for continuous monitoring or intermittent use commissioning and servicing hydraulic systems up to 420 bar, 6000 psi.

The large 63 mm diameter dial ensures that quick checks can be made to determine pump performance and setting of flow control valves. They can be used anywhere on mobile and industrial hydraulic circuits to test pumps, motors, valves and cylinders.

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.



Hydraulic measurement and control



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sales-uk@webtec.com

www.webtec.com

Features

- **FLOW:** 10 - 200 lpm, 4 - 54 gpm
- **PRESSURE:** 420 bar, 6000 psi
- **FLOW** accuracy within 4% FSD
- **BUILT-IN** thermometer
- **ALLOWS** reverse flow
- **DUAL** scale lpm/gpm
- **HORIZONTAL** or vertical mounting
- **LARGE** clear easy to read dial
- **LOW** cost rugged design
- **PRESSURE** gauge port
- **WIDE** operating range



Certificate No.8242

RFI-BU-ENG-2153.pdf
(Issue 3)

08/16

Specification

Model number	Calibrated flow range		Main ports	Top port
	lpm	gpm		
RFI120-B-6	10 - 120	4 - 32	1" BSPP	1/4" BSPP
RFI120-S-6	10 - 120	4 - 32	1-5/16" -12UN #16 SAE ORB	1/4" NPTF
RFI200-B-6	10 - 200	4 - 54	1" BSPP	1/4" BSPP
RFI200-S-6	10 - 200	4 - 54	1-5/16" -12UN #16 SAE ORB	1/4" NPTF

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

Ambient temperature:	-10 to 50 °C, 14 -122°F
Fluid type:	Hydraulic mineral oil to ISO 11158 category HM.
Fluid temperature:	20 to 80°C, 68 - 176°F continuous use. Intermittently (< 10 minutes) up to 110 °C, 230 °F.
Maximum pressure	420 bar, 6000 psi
Accuracy:	
Flow:	± 4% of full scale
Temperature:	± 2.5°C, ± 5 °F
Dimensions:	171 x 74 x 61 mm, 6.73" x 2.91" x 2.4"
Weight	2.0 kg, 4.4 lbs

Construction material

Main block	Aluminium 2011T6
Internal parts	Stainless steel, brass
Seals	Nitrile and FKM (wetted parts on BSPP models)

Operation

The flow indicator body houses a metering piston which moves against a calibrated spring. The piston is magnetically coupled to a rotary pointer to provide a direct reading of flow on the dial, flow scale is displayed in both lpm and gpm. The thermometer is also mounted in the body near the fluid flow. Both flow and temperature scales are shielded behind impact resistant windows.

Reverse flow

The unit will allow reverse flow but will not measure the reverse flow, i.e. the flow needle will indicate zero.

Calibration

All units are calibrated at a mean viscosity of 28 cSt using hydraulic mineral oil to ISO32 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. Two 9 mm, 0.35" diameter holes are provided for this purpose. 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 or consult sales office.

CENTRALA ELBLĄG

ul. Rawska 19B
82-300 Elbląg

tel. /+48/ 55 625 51 00

fax /+48/ 55 625 51 01

Dział Handlowy

tel. /+48/ 55 625 51 51

elblag@hydropress.pl



www.hydropress.pl

ODDZIAŁ GDAŃSK

tel. /+48/ 55 625 51 21

fax /+48/ 55 625 51 22

ODDZIAŁ RUMIA

tel. /+48/ 58 679 34 15

fax /+48/ 55 625 51 25

ODDZIAŁ TYCHY

tel. /+48/ 32 787 52 88

fax /+48/ 55 625 51 38

ODDZIAŁ OLSZTYN

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

ODDZIAŁ WARSZAWA

tel. /+48/ 22 468 86 97

fax /+48/ 55 625 51 32

BIURO WE WROCŁAWIU

tel. /+48/ 782 838 000

fax /+48/ 55 625 51 35

BIURO W KIELCACH

tel. /+48/ 885 995 501

fax /+48/ 55 625 51 01

BIURO W KRAKOWIE

tel. /+48/ 885 995 019

fax /+48/ 55 625 51 01

BIURO W OPOLU

tel. /+48/ 885 995 011

fax /+48/ 55 625 51 01

BIURO W BYDGOSZCZY

tel. /+48/ 790 222 771

fax /+48/ 55 625 51 01

BIURO W BIAŁYMSTOKU

tel. /+48/ 89 532 01 05

fax /+48/ 89 715 21 42

BIURO W ŁODZI

tel. /+48/ 609 221 421

fax /+48/ 89 715 21 42