

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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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.