



# WEBTEC

WEBTEC PRODUCTS LIMITED

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## RFI Reversible Flow Indicator with built in Thermometer

- 120 lpm
- 180 lpm
- Up to 420 bar



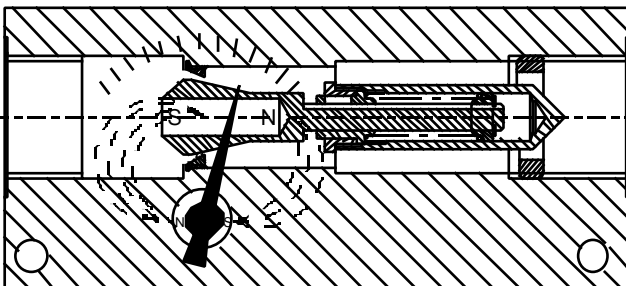
*Model RFI 1000 - 120 ABOT  
120 lpm Oil flow indicator  
with thermometer*

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.

### Operation



*Section drawing of the RFI Flow Indicator*

### Features

- **Allows** reversible flow
- **Low cost** rugged design
- **420 bar**, 6000 psi pressure
- **Accuracy** within 4% FSD
- **Large** clear dials
- **Horizontal** or vertical mounting
- **Built-In** thermometer available

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. In reverse the piston moves back to allow the flow to return at low pressure. The piston is magnetically coupled to the rotary pointer assembly which registers on a clear 63 mm (2 1/2") scale calibrated in lpm and gpm. The RFI flow indicators are reversible and may be mounted in cylinder and motor circuits,

***Another quality product from the Webster Range***



**Distributor**



## **Oil Solutions**

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## **Diagnostic Products & Pressure Transmitters**

- ◆ Flow Testers
- ◆ Flow Indicators
- ◆ Digital Pressure Gauge SPG-DIGI
- ◆ Hydraulic Tester PPC
- ◆ Pressure Transmitters SPT
- ◆ Pressure Switches

## **Other Products**

- ◆ Filters
- ◆ Filtration Equipment
- ◆ Accessories
- ◆ Accumulators
- ◆ Clamps
- ◆ Controls
- ◆ Test Equipment
- ◆ Hydraulic Tube
- ◆ Hydraulic Tube Fittings
- ◆ Fluid Connectors
- ◆ Pumps & Valves

## Specification

Model No. with thermometer	Model No. without thermometer	Fluid	Body Material	Flow Range		Weight (kg)
				lpm	gpm (US)	
RFI 1000 - 120 ASOT	RFI 1000 - 120 ASO	Oil	Aluminium	5 - 120	1.3 - 32	2
RFI 1000 - 180 ASOT	RFI 1000 - 180 ASO	Oil	Aluminium	8 - 180	2.1 - 48	2

Max. Pressure 6000 psi

### Connections

By flexible hoses or steel pipes. Inlet and outlet ports are 1-5/16" -12 UN

### Measurement and Indication

#### Flow

Flow is measured by a tapered metering piston moving within a fixed, sharp edged orifice designed to minimise the effects of changes in temperature and viscosity. A pressure drop occurs across the variable orifice and the piston movement is proportional to the change in flow rate. In reverse the piston moves back to allow the flow to return at low pressure.

**Accuracy:** ± 4% of full flow.

**Pressure Drop** (in both flow directions)

RFI 1000 - 120 ASOT 20 psi

RFI 1000 - 180 ASOT 40.6 psi

At full flow with oil viscosity of 28 centistokes

### Construction

#### Flow Block

The solid high tensile aluminium block houses a metering piston. The piston is magnetically coupled to a rotary pointer to provide a direct reading of flow on a clear 2-1/2" (63mm) diameter flow scale calibrated in gpm & lpm. Both flow and temperature scales are shielded behind impact resistant polycarbonate windows, windows suitable for phosphate ester fluids are available. The whole unit is fully sealed and very durable.

#### Loading Valve (Optional)

The HV200 loading valve is connected directly to the flow block. The valve is easy to operate and allows progressive control of system pressure with excellent tactile feedback.

### Adaptors

Adaptor Fitting Kit part # FT6177 comprising 6 male-male adaptors to provide 1" NPT, 3/4" NPT & #16 JIC, male connectors.

### Temperature

Indicated in °C and °F by an optional thermometer set in rubber compound and built into the flow block to sense temperature changes in fluid passage.

**Accuracy:** ± 2 °C.

Range: 10 - 80 °C , 50 - 180 °F

Consult Sales Office for flow indicators suitable for higher working temperatures.

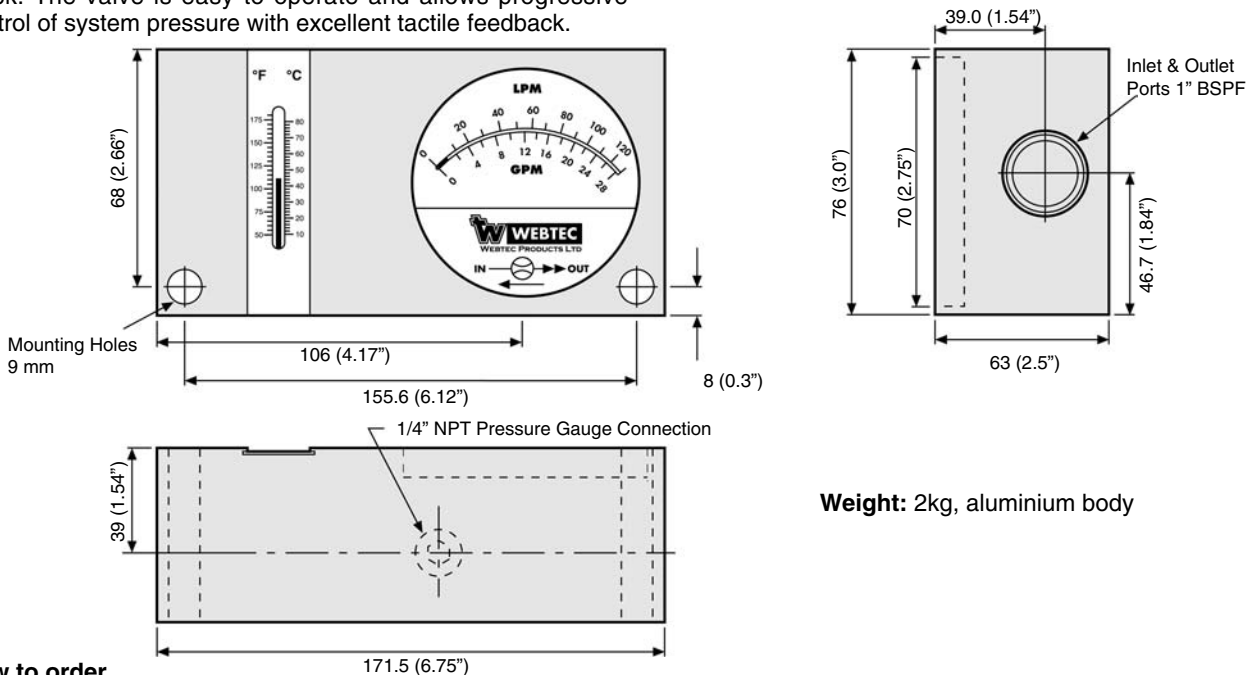
### Accessories

#### Pressure Gauge

Optional 2.5" diameter glycerine filled pressure gauge, accuracy 1.6% FSD, is fitted into a 1/4 NPT connection in the block or remotely connected by using a test point & hose.

### Other Applications

Units suitable for Mining, Offshore and High Pressure Water applications are available.



**Weight:** 2kg, aluminium body

### How to order

Specify flow indicator from table detailing thermometer and pressure gauge options. RFI1000-180-ASOT is an aluminum 50 gpm reversible flow indicator with thermometer option.



APPROVED

