RFS200

Flow Hours Counter

Ideal for recording the time that the equipment is operational in the hire market, apportioning use of shared hydraulic tools between many users or accurately monitoring the service interval of attachments.

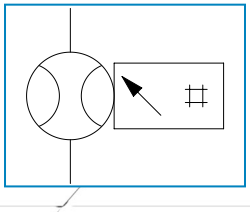
The run time meter is activated by the passage of hydraulic fluid and allows precise monitoring of system usage. Perfect for system and safety critical applications so that maintenance can be conducted on a work done basis rather than machine hours.

Make it BLUE®

Specifications

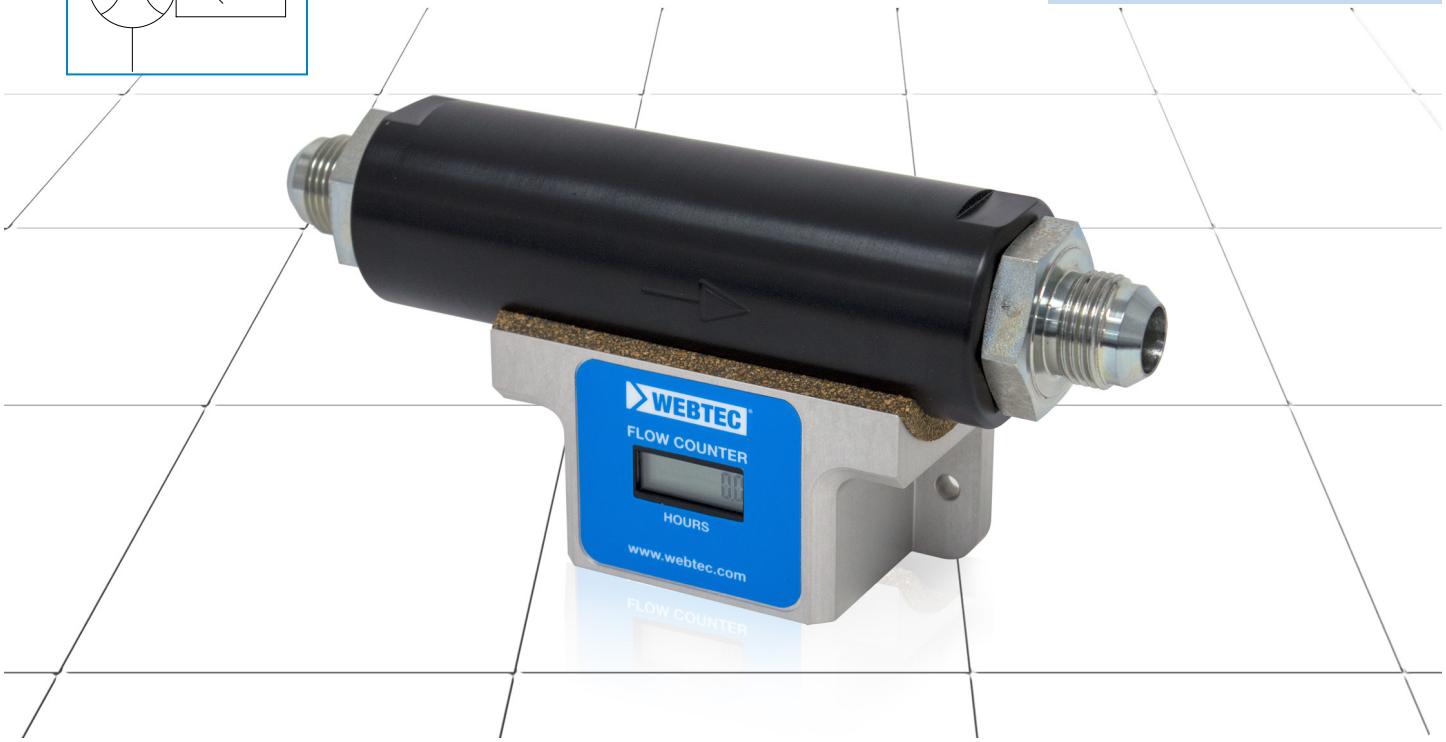
Maximum Rated Pressure:		Up to 420 bar, 6,000 psi
Maximum Rated Flow:		Up to 200 L/min, 52 US gpm
Ambient Temperature Range:		-20 to 50°C, -4 to 122°F
Fluid Temperature Range:		-20 to 100°C, -4 to 212°F
Compatible fluid:		Mineral oils to ISO 11158. Other fluids consult sales office.
Porting:		BSPP, SAE
Material:	**Body Material:**	Aluminium 2011T6
	Internal Material:	Stainless Stell and Brass
	Seal:	FKM
IP Rating:		Designed for IP66

Symbol:



Features

- Trigger point factory set at 10 L/min, 2.6 US gpm.
- Anti-tamper design for security.
- Battery life: 10+ years.
- Time resolution 1/10th of an hour.
- IP66 sealing of sensitive components.
- Display: always on LCD.
- Bidirectional flow (count in forward flow only).



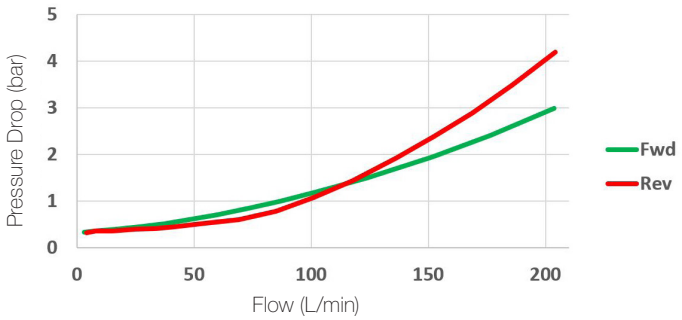
Sales Order Code

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

MODEL NUMBER	PORTS	PRESSURE	
		bar	psi
RFS200-B050V-6	1/2” BSPP MALE	420	6000
RFS200-B075V-6	3/4” BSPP MALE	420	6000
RFS200-B100V-6	1” BSPP MALE	420	6000
RFS200-S050V-6	3/4”-16UN JIC MALE	420	6000
RFS200-S075V-6	1-1/16”UN JIC MALE	420	6000
RFS200-S100V-6	1-5/16”UN JIC MALE	420	6000

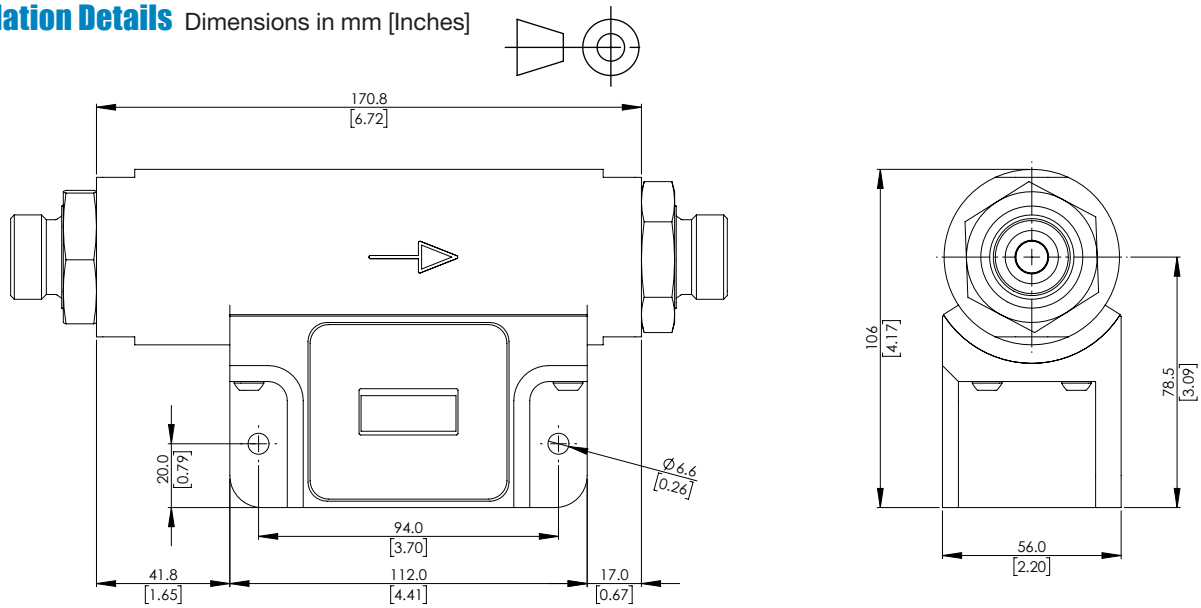
Typical Pressure Drop Chart

All tests completed using ISO32 Mineral oil at 25 cSt



Installation Details

Dimensions in mm [Inches]



Functional Specification

Switch Accuracy:	±4% of full scale
Counter switch flow:	10 lpm (set at 21 cSt)*
Display:	Permanently on 7mm high LCD digits
Run indicator:	Blinking decimal point
Resolution:	0.1hour (6minutes)
Timer Accuracy:	±0.2% over specified temperature range
Maximum count:	9999999.9 hours
Battery chemistry:	Lithium Thionyl Chloride
Battery life:	10+ years

* The count trigger point is set using ISO32 oil at 50°C (21cSt).
Higher viscosities will decrease the switching flow and lower viscosities will increase the switching flow.

Operation

Flow metering is a piston moving through a sharp-edged orifice. The piston moves against a spring and the position is sensed magnetically. The switch operating point is set during manufacture for reliability and integrity and is not user adjustable. When the switch point is reached the counter starts incrementing which is indicated by a blinking decimal point. The meter keeps counting so long as the flow rate is greater than the switch point. Counting is cumulative and cannot be reset.

Reverse Flow

The unit will allow oil to pass in the reverse flow direction, but this will not trigger the counter.

Installation

The unit should be installed horizontally. As the unit uses magnetic fields to operate it should be positioned clear of any external magnetic influence such as an electric motor.

There are two M6 holes for bulk-head mounting but these should not be used to support pipe-work. Flexible hoses connected to the unit should be clamped to minimise flexing stress at the threaded ports.

All connections should be made by suitably trained personnel.

Filtration

Must be better than NAS 8 or ISO 19/17/14 (typically achieved with 40micron filter).