Information Sheet

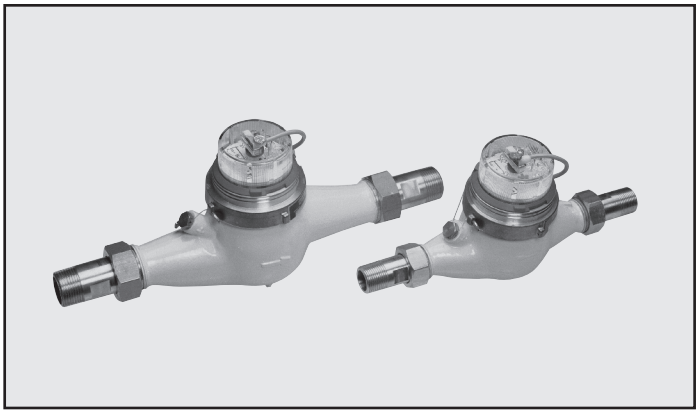
FC Series
Flowmeter Contactors

- For Proportional Chemical Metering
- Flow rates from .22 to 30 GPM
- Line sizes 3/4" and 1"
- Magnetic drive, no packing glands, dry register
- Magnetically operated glass enclosed reed switch contactor
- Lightweight, compact Totalizer
- Register can be rotated for convenient viewing without disassembly

LMI Flowmeter Contactors feature multi-jet type impeller measuring chambers for accuracy even under low flow conditions. The lightweight thermoplastic impeller reacts even to the smallest flow commonly associated with nutating disk type water meters. The low specific weight of materials used in the impeller mechanism almost cancels the bearing pressure of the moving parts in water and results in long life.

The Contactor portion of a magnetically operated glass enclosed reed switch is mounted on top of a clear polycarbonate cap. The entire unit is easily replaced if damaged, by the removal of only one screw. The totalizer and three sweep hands are clearly visible through the clear polycarbonate cap.

All Flowmeter Contactors are equipped with 3 meters of cable complete with a 4 pin female connector ready for connection into the ext. input of any LMI Series A7, B7or D7 metering pump.



1" and 3/4" Flowmeter Contactors.
For use with LMI Series A7, B7 and D7 Metering Pumps

SPECIFICATIONS - FLOWMETER

TYPE: Direct multi-jet high speed impeller.
BODY: Cast Bronze.
MEASURING CHAMBER: All thermoplastic with near zero weight in water impeller.
DRIVE: Magnetic.
REGISTER: Totalizing type, 5 digit times 100 constant with 0.1 gallon mini-pointer registration. Thermoplastic spur gears, dry runner type.
REGISTER COVER: Clear (polycarbonate).
SERVICE TEMP.: 33° F-122° F (1° C - 50° C).
MAX. OPERATING PRESS.: 230 psi (16 Bar).
MOUNTING: Horizontal.

SPECIFICATIONS - CONTACTOR

TYPE: Glass enclosed reed switch.
CONTACTS: Single pole, single throw.
MAX. RESISTIVE LOAD: 10 VA, 9 watts, 0.5 amp, 115 Volts AC, 20 Volts DC.
MAX. INDUCTIVE LOAD: 4 VA, 3.6 watts, 0.2 amp, 115 Volts AC, 28 Volts DC.
EST. MINIMUM LIFE: 45 million operations at 3VA resistive.

LMI MILTON ROY

201 Ivyland Road
Ivyland, PA 18974 USA
TEL: 215-293-0401
FAX: 215-293-0445
http://www.lmipumps.com

ISO9001

Replaces same of Rev. D 11/97
1310.E 7/07

Instruction Sheet

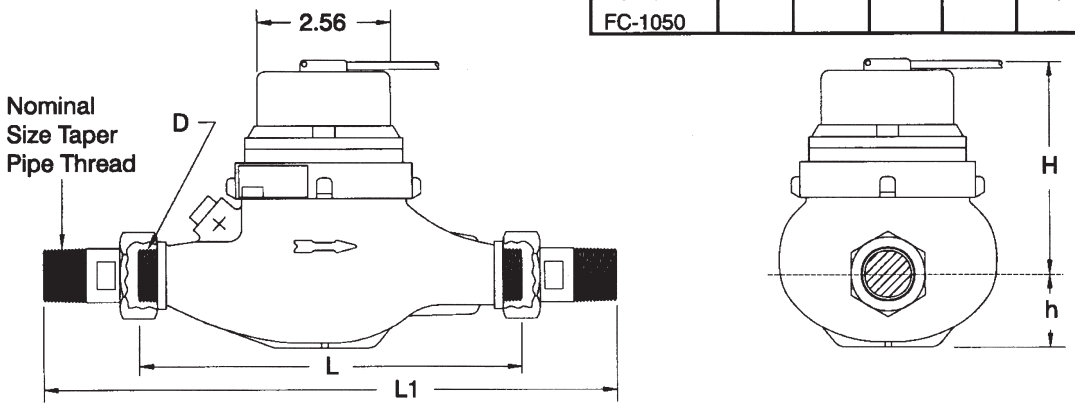
FC Series Flowmeter Contactors

Nominal Size (Inches)	Pressure Loss Flow Range (Min to Max) GPM	Flowmeter Model Number	Gallons Per Contact	Contacts/Min At Rated Maximum Flow*	Gallons Per Revolution of Mini-Pointer	Thru Meter at Rated Flow* (psi)
3/4	.22 - 15	FC-0701	0.125	120	1	3.0
		FC-0702	0.25	60		
		FC-0710	1.0	15		
		FC-0750	5.0	3		
1	.40 - 30	FC-1002	0.25	120	1	4.4
		FC-1005	0.50	60		
		FC-1010	1.0	30		
		FC-1050	5.0	6		

* Peak intermittent flow should not exceed 145% of rated maximum flow.

DIMENSIONS (INCHES)

Flowmeter Model No.	L	L1	H	h	D	Net Wt. lbs.
FC-0701 FC-0702 FC-0710 FC-0750	7.5	11.34	5.36	1.62	1	4.62
FC-1002 FC-1005 FC-1010 FC-1050	10.24	14.90	5.79	1.74	1 1/4	6.82



INSTALLATION INSTRUCTIONS

A. UNPACKING

1. Flowmeter Contactors are packaged individually, complete with 3 meters of cable with a 4 pin female connector ready for connection into the external input of any LMI series A7, B7 and D7 metering pumps.

B. LOCATION

1. Flowmeter Contactors should be installed in a frost proof, easily accessible area.
2. For best results, flowmeter should be on lowest horizontal point in pipe line to prevent accumulation of air and resulting measurement error.
3. If pipe after flowmeter is on open discharge, such pipe must be raised so open discharge elevation is higher than top of flowmeter.
4. Flowmeter Contactors should be protected from direct sunlight or rain to prevent fogging of the dial.

C. SETTING

1. Pipeline must be horizontal.
2. For ease of installation, install a shut off valve, the orifice of which is at least as large as the nominal size of the flowmeter, upstream (inlet) and downstream (outlet) of the flowmeter. Installation of a bypass is also recommended for easy removal or servicing of the flowmeter without interrupting the water flow.
3. Thoroughly rinse pipeline by opening upstream shut off valve before setting flowmeter.
4. Apply Teflon® tape or pipe dope on the tapered pipe thread ends of the meter couplings. Note arrow on flowmeter body for direction of flow.
5. Air trapped in flowmeter should be removed prior to operation. To accomplish this, loosen meter couplings slightly and rotate flowmeter slowly so contactor is upside down. Open upstream (inlet) valve slowly letting water through the meter. Rotate flowmeter slowly again until contactor is upright and tighten meter couplings. The flowmeter is now ready for cable connection to pump.

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