LFS Series

Non-Adjustable Flow Monitor

Key Features

Chemically inert, Non-restrictive at higher flows.

Features

- Close On-Off Differential
- In Line Vertical Plumbing
- Confirms: Normal Flow Conditions
- Senses: High Flow or Low Flow Conditions
- Material: Polypropylene
- Output: Switch Contact

Applications

- Deionized Water
- Chemical Process Systems
- Cooling Systems
- Heat Pump Systems
- Laser Cooling Systems

Operation

As flow is established upward through the unit and continues to increase, the pressure differential across the magnetic piston increases until it overcomes the magnetic piston's resistance (mass). The magnetic piston actuates a hermetically sealed reed switch, which is encapsulated in the body of the unit, out of the air/water path.This is a snap action and occurs in the decreasing mode as well.

- Actuation Points for increasing flow
- Calibration Accuracy ±10% of actuation point
- Deactuation (decreasing flow) averages 10% less than actuation (increasing flow)
- Repeatability ±2%
- Unit will pass greater flows

Temperature Operating Range

- 0° to 228°F (-17° to 104°C) for Brass and Stainless Steel
- 32° to 120°F (0° to 49°C) for Polypropylene

For other temperature ranges consult factory.

Specifications				
Unit	Weight OZ (gm)	Max Working Pressure PSIG (barg)	Wetted Parts	Seals
Polypropylene	10.469 (0.213)	100 (6.89)	PP, Epoxy	Viton

Pressure Loss

ΔP at 5 GPM (18.925) PSID (BARD)
All set points - 1.00 (0.069)

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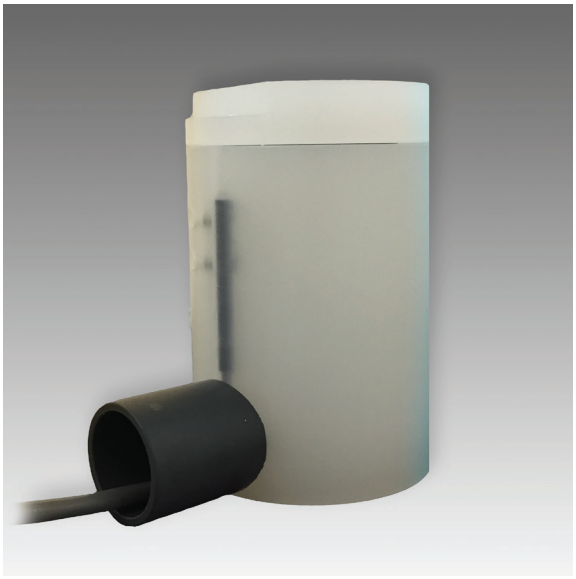

Calibration Table	
Model	Water LPM (GPM)
LFS-500-PP-C	
-1	0.38 (0.10)
-2	1.89 (0.50)
-4	3.78 (1.00)
-6	5.68 (1.50)
-8	7.57 (2.00)

Corrections must be made for other liquids, line pressures and temperatures. Please consult your representative or the factory.

**Users are solely accountable for product selection, regardless of any recommendations or suggestions provided by ChemTec Equipment Company, Inc. Users should base product selection on their own analysis and testing to determine functionality and material compatibility in relation to their application. To ensure safe and trouble-free performance, it is essential to adhere to proper installation, operation, and maintenance procedures.*

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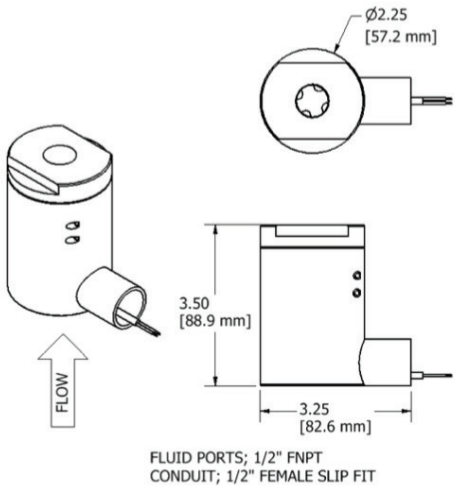
Switch Data	SPST	SPDT
Maximum Switching Voltage		
DC (V)	250	175
AC (V)	265	120
Contact Rating		
DC (W)	50	5
AC (VA)	50	5
Maximum Switching Current (A)		
DC (A)	1.5	0.25
AC (A)	1.1	0.18

Leads	SPST UL File #E471070	SPDT UL File #E471070
	leads 39 in. min. from body 22 AWG, PVC jacketed wire, red, black		leads 39 in. min. from body 22 AWG PVC jacketed wired, • red - N.C. • black - N.O. • white - Common



Fluid	Ports: Inlet/Outlet	Ports Inches
Model	FNPT	Electrical Conduit
LFS	1/2”	1/2” Female Slip Fitting

Installation

Mount with inlet port down vertically. A 100 micron filter is recommended.

How to Order

Sales@ChemTec.com | 800.222.2177

Model	Calibration	Switch
LFS 500 PPC	-1 -2 -4 -6 -8	N.O. Single Pole Single Throw Normally Open SPDT Single Pole Double Throw

Note: All dimensions are subject to change for quality improvement. Not responsible for printing errors.
Viton®