## **LPH Series**

Non-Adjustable Flow Monitor

#### **Key Features**

Compact, Dependable, Economical

#### **Features**

- Close On-Off Differential
- Visual Indication of Flow with Acrylic Model
- No Seals
- In Line Vertical Plumbing
- Materials: Acrylic, Brass, 316SS or Teflon®
- Confirms: Normal Flow Conditions
- Senses: High Flow and Low Flow Conditions
- Output: Switch Contact

#### **Applications**

- Analyzers
- Kidney Dialysis Machines
- Micro Biomedical Machines
- Laser Cooling Systems
- Bubbler Systems
- Pollution Sampling Equipment

#### **FNPT Port Sizes**

- LPH 125 1/8"
- LPH 250 1/8"
- LPH 375 1/4"



## Operation When air/wat

When air/water flows through the unit it causes the magnetic piston to move up at the calibration point. This displacement is caused by the pressure differential from the air/water flowing through the unit. The magnetic piston actuates a hermetically sealed reed switch, which is encapsulated in the body of the unit, out of the air/water path. Decreasing the flow below the calibration point causes the reed switch to de-actuate.

- Actuation points for air at 68°F and 14.7 PSIA with increasing flow.
- Deactuation (decreasing flow) averages 10% less than actuation (increasing flow).
- Calibration accuracy ±10% of calibration points shown.
- Repeatability ±1%.
- · Unit will pass greater flows.

#### **Pressure Loss**

ΔP AT SET POINT MBARS (INCHES OF WATER) ALL UNITS 11.2 (4.5)

Correction must be made for other fluids, line pressure and temperatures. Please consult your representative or the factory.

Specifications							
Body Material	Weight OZ (gm)	Max Working Pressure PSIG (barg)	Wetted Parts				
Acrylic	4 (113.4)	100 (6.89)	Acrylic, 316SS, Epoxy				
Brass	8 (226.8)	1500 (103.42)	Brass, 316SS, Epoxy				
316SS	8 (226.8)	3000 (206.84)	316SS, Epoxy				
Teflon	4 (113.4)	80 (5.52)	Teflon®				

#### **Temperature Operating Range**

- 0° to 220°F (-17° to 104°C) for 316SS, Brass and Teflon®
- 32° to 160°F (0° to 71°C) for Acrylic

For other temperature ranges consult factory.

Calibration Table							
Model	Air SCC/M (SCFH)	Water ML/M (GPH)					
LPH-125							
0	50 (0.105)	1 (0.016)					
-1	120 (0.254)	2 (0.03171)					
-2	560 (1.187)	16 (0.25369)					
-3	750 (1.589)	30 (0.47567)					
-4	1300 (2.755)	45 (0.71350)					
-5	1400 (2.966)	50 (0.79278)					
-6	1900 (4.026)	65 (1.0306)					
-7	2500 (5.297)	85 (1.3477)					
-8	2700 (5.721)	90 (1.4270)					
-9	3300 (6.992)	105 (1.6648)					
-10	3600 (7.628)	120 (1.9027)					
-11	5200 (11.02)	170 (2.6955)					
-12	6000 (12.71)	200 (3.1711)					
LPH-250							
-1	350 (0.742)	7 (0.111)					
-2	6000 (12.71)	200 (3.171)					
-3	7500 (15.89)	250 (3.964)					
-4	9500 (20.12)	315 (4.994)					
-5	10500 (22.25)	346 (5.486)					
-6	12500 (26.49)	400 (6.342)					
-7	15200 (32.21)	500 (7.928)					
-8	24000 (50.85)	760 (12.05)					
LPH-375							
-1	3000 (6.36)	70 (1.110)					
-2	15200 (32.21)	475 (7.531)					
-3	30300 (64.20)	950 (15.06)					
-4	37000 (78.40)	1425 (22.59)**					
-5	45300 (95.99)	2200 (34.88)**					

<sup>\*\*</sup>Teflon® encapsulated piston not available

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<sup>\*</sup>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.

# **LPH Series**

Non-Adjustable Flow Monitor

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				

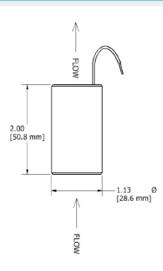


leads 18 in. min. from body 22 AWG, TFE insulation



leads 18 in. min. from body 24 AWG, TFE insulation

- green N.C.
- blue N.O.
- white Common



#### Installation

Mount with the inlet port down vertically. A 10 micron filter is recommended.

Leads Up; Normally Open
Leads Down; Normally Closed
Conduit; N.O. Conduit Offs

N.O. Conduit Offset Down N.C. Conduit Offset Up

### **How to Order**

Sales@ChemTec.com | 800.222.2177

Model	Size	Calibration	Materials	Electrical Conduit	Media	Switch		Options	
LPH	125 250 375	See Cal. Table	A Acrylic B Brass S 316SS T Teflon®	C (Metallic Bodies Only) (1/2" FNPT)	W Water A Air	N.O.	Single Pole Single Throw Normally Open	TFE	Teflon® Encapsulated Piston (Standard in Teflon Units)
			(TFE piston standard in Teflon units)			N.C.	Single Pole Single Throw Normally Closed	02	Oxygen Cleaned
						SPDT	Single Pole Double Throw	HT	High Temperature Options 340°F (171°C)
						DSNONO	Double Switch N.O./N.O.		metallic body only
						DSNONC	Double Switch N.O./N.C.	HV	High Voltage Switch (220 VAC)
						DSNCNC	Double Switch N.C./N.C.		
						DCNONO	Double Conduit N.O./N.O.		
						DCNONC	Double Conduit N.O./N.C.		
						DCNCNC	Double Conduit N.C./N.C.		

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