CHEM TEC EQUIPMENT COMPANY

INSTALLATION AND MAINTENANCE

MODEL LPH SERIES

OPERATION:

As flow is established UPWARD through the unit and continue to increase, the pressure differential across the grooved magnet piston increases until it overcomes the piston's mass. The pressure causes the piston to progress fully upward to the outlet port. This action actuates the dry reed switch. This is a snap action and occurs in the decreasing mode as well. The LPH can be used to monitor higher flows when installed on a bypass line.

SPECIFICATIONS:

STANDARD FLOW SETTINGS (SCC/MIN)

MODEL	AIR	WATER	PORTS
LPH-125-0	50	1	1/8 FNPT
1	120	2	
2	560	16	
3	750	30	
4	1,300	45	
5	1,400	50	
6	1,900	65	
7	2,500	85	
8	2,700	90	
9	3,300	105	
10	3,600	120	
11	5,200	170	
12	6,000	200	
LPH-250-1	350	7	1/8 FNPT
2	6,000	200	
3	7,500	250	
4	9,500	315	
5	10,500	348	
6	12,500	400	
7	15,200	500	
8	24,000	760	
LPH-375-1	3,000	70	1/4 FNPT
2	15,200	475	
3	30,300	950	
4	37,000	1,425	
5	45,300	2,200	

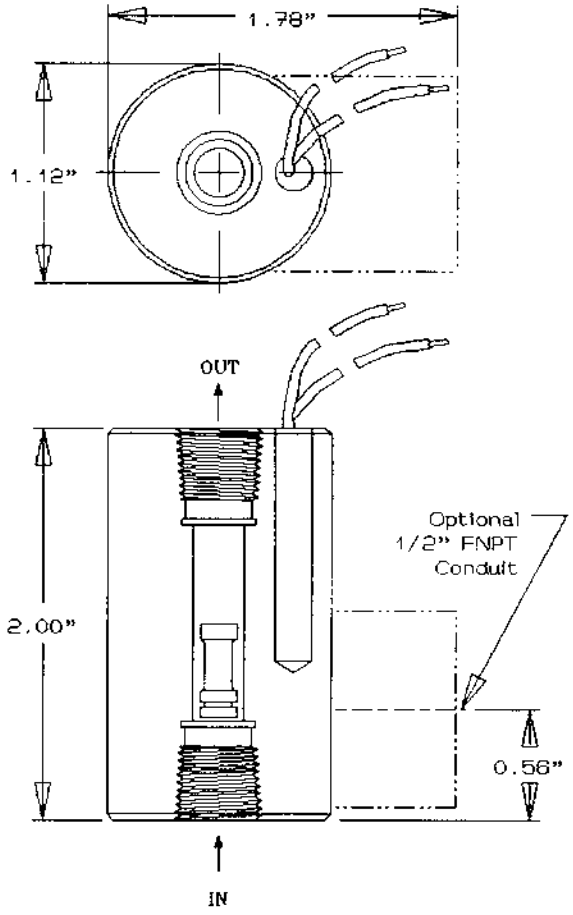
Actuation points at STP of air. Actuation varies with line pressure and media. Actuation points shown are for for increasing flows. Differential between ON and OFF averages 10% Flow setting accuracy ±10% Repeatability ± 2% Approximate pressure drop at actuation for all models is 4.5 inches on water column.

BODY MATERIAL	MAXIMUM WORKING PRESSURE	WETTED PARTS
Acrylic	100 psig	Acrylic, 316SS, Epoxy
Brass	1500 psig	Brass, 316SS, Epoxy
316SS	3000 psig	316SS, Epoxy

INSTALLATION:

Install the unit as shown in the VERTICAL position with the INLET on the bottom. Do not OVER TIGHTEN fittings on the Acrylic bodies. Avoid dirt, Teflon tape shreads or other foreign material entering the unit. Do not use pipe dope. We recommend the use of a 10 micron filter. Normal configuration is taken as unit at rest with no flow present. Standard model is NORMALLY OPEN with lead wires UP. NORMALLY CLOSED the leads wires are DOWN. Conduit Option; NORMALLY OPEN the conduit is DOWN, NORMALLY CLOSED the conduit is UP.

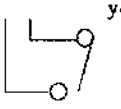
Large metallic bodies and magnetic fields may affect the principle of operation of these units. If disturbance is suspected, adjustment of the reed switch may be necessary. Magnetic shielding may be required in severe cases.



SWITCH DATA	SPST	SPDT
Maximum Switching Voltage		
DC	200	100
AC	150	-
Contact Rating		
DC(W)	50	3
AC(VA)	70	-
Maximum Switching Current (A)		
DC	1.0	.25
AC	0.7	-

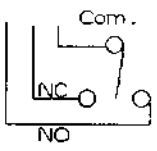
Above values for resistive loads only. For inductive loads, surge current and rush current - contact protection is required, consult your local representative.

SPST leads 18 in. min. from body, yellow.



22 E 19, TFE Insulation

SPDT (Optional) leads 18 in. min. from body.



- Blue-NO
- Green-NC
- White - Common

24 E 19, TFE Insulation

MAINTENANCE:

The LPH model is a low maintenance unit. If the bore appears dirty or if the piston is not responsive to changes in flow, remove the retaining ring and magnetic piston. Swab out the bore, wipe off the piston with a suitable solvent. Install the piston in the same ORIENTATION and replace the retaining ring.

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