LCA Series

Adjustable Flow Monitor

Key Features

Best for applications where the ratio (Normal Flow/ Set Point) is 10:1 or Greater, Minimal Pressure Drop.

Features

- Broad Range of Adjustability
- Compact Size
- High Resolution
- Materials: 316S S, Brass or Teflon®

Applications

- Welding Systems
- Analyzers
- Vacuum Systems
- Cooling Systems

Operation

When flow is increased, the magnetic piston is forced against a bias spring. As the magnet comes near the adjustable reed switch it actuates, indicating proper flow. When flow decreases the spring forces the piston in the opposite direction deactuating the reed switch an indicating a reduced or no flow situation. The magnetic piston actuates a hermetically sealed reed switch, which is encapsulated in the body of the unit, out of the air/water path.

- All models field adjustable
- Deactuation (decreasing flow) averages 40% less than actuation (increasing flow)
- Repeatability ± 2%
- Correction must be made for attitudes other than horizontal
- Unit will pass greater flows

Specifications				
Model	Weight Lbs (kg)	Max Working Pressure PSIG (barg)	Wetted Parts	
LCA-250-P	0.375 (0.17)	100 (6.89)	PVC, Epoxy, 316SS	
LCA-250-B	1.4 (0.635)	1500 (103.42)	Brass, Epoxy, 316SS	
LCA-250-S	1.4 (0.635)	3000 (206.84)	316SS, Epoxy	
LCA-375-P	0.375 (0.17)	100 (6.89)	PVC, Epoxy, 316SS	
LCA-375-B	1.4 (0.635)	1500 (103.42)	Brass, Epoxy, 316SS	
LCA-375-S	1.4 (0.635)	3000 (206.84)	316SS, Epoxy	
LCA-500-P	0.375 (0.17)	100 (6.89)	PVC, Epoxy, 316SS	
LCA-500-B	1.4 (0.635)	1500 (103.42)	Brass, Epoxy, 316SS	
LCA-500-S	1.4 (0.635)	3000 (206.84)	316SS, Epoxy	
LCA-750-P	0.625 (0.283)	100 (6.89)	PVC, Epoxy, 316SS	
LCA-750-B	1.7 (0.771)	1500 (103.42)	Brass, Epoxy, 316SS	
LCA-750-S	1.7 (0.771)	3000 (206.84)	316SS, Epoxy	



Calibration Range				
Model	Air LPM (SCFM)	Adjustable Range Increasing Flow Water LPM (GPM)	Inlet/Outlet FNPT Port Inches	
LCA-250*	14.16 (0.5) 1416 (50)	0.38-15.1 (0.10 - 4)	1/4"	
LCA-375*	14.16 (0.5) 1416 (50)	1.89-15.1 (0.5 - 4)	3/8"	
LCA-500*	28.32 (1) 2124 (75)	1.89 - 37.9 (0.5 - 10)	1/2"	
LCA-750*	141.6 (5) 3398 (120)	3.79 - 56.8 (1 - 15)	3/4"	

Pressure Loss					
Model	Air LPM (SCFM)	Water LPM (GPM)	ΔP BARD (PSID)		
LCA-250/375					
Minimum	14.16 (0.5)	0.38 (0.10)	0.34 (0.5)		
Maximum	1416 (50)	15.14 (4)	0.21 (3)		
LCA-500					
Minimum	28.32 (1)	1.89 (0.5)	0.069 (1)		
Maximum	2124 (75)	37.85 (10)	0.689 (10)		
LCA-750					
Minimum	141.6 (5)	3.79 (1)	0.10 (1.5)		
Maximum	3398 (120)	56.8 (15)	0.62 (9)		

Temperature Operating Range

- 0° to 228°F (-17° to 104°C) for Brass and Stainless Steel
- 32° to120°F (0° to 49°C) for PVC 32° to120°F for Acrylic

For other temperature ranges consult factory

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*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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Adjustable Flow Monitor

Switch Data	SPST	SPDT			
Maximum Switching Vo	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			



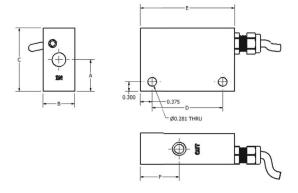


leads 39 in. min. from body 22 AWG, PVC Jacketed Wired



leads 39 in. min from body 22 AWG PVC jacketed wired • red - N.C.

- green N.O.
- black Common



Installation

Mount with the inlet port on the side horizontally. Other attitudes change the adjustable range of the unit. A 100 micron filter is recommended.

Dimensions						
Model	А	В	С	D	Е	F
LCA-250	1.00 (25.4)	1.00 (25.4)	2.00 (50.8)	2.25 (57.15)	3.0 (76.2)	1.25 (31.8)
LCA-375	1.00 (25.4)	1.00 (25.4)	2.00 (50.8)	2.25 (57.15)	3.0 (76.2)	1.25 (31.8)
LCA-500	1.00 (25.4)	1.00 (25.4)	2.00 (50.8)	2.25 (57.15)	3.0 (76.2)	1.25 (31.8)
LCA-750	1.63 (41.4)	1.25 (31.8)	2.75 (69.9)	3.25 (82.55)	4.0 (101.6)	1.63 (41.4)

How to Order

Sales@ChemTec.com | 800.222.2177

Model	Materials	Type of Service	Switch
LCA 250 375 500 750	P PVC A Acrylic B Brass S 316SS	W Water G Gas	N.O. Normally Open SPDT Single Pole Double Throw FP* Factory Preset

All dimensions are subject to change for quality improvement. Not responsible for printing errors.

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