

# 125 Series

Standard Unobtrusive 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: 316SS, Brass or Teflon®
- Confirms: Normal Flow Conditions
- Senses: High Flow and Low Flow Conditions
- Output: Switch Contact

## Applications

- Welding Systems
- Analyzers
- Vacuum Systems
- Cooling Systems
- Chillers
- Biochemical Instruments
- Process Flows

## Operation

A magnetic piston is suspended by the repulsion of a fixed magnet. When fluid flows through the unit it causes the magnetic piston to move against the repulsion of the fixed magnet. The magnet piston actuates an encapsulated hermetically-sealed reed switch out of the fluid path. Decreasing the flow below the calibration point causes the reed switch to de-actuate. Set point is adjustable.

- Actuation Points for air at 68°F and 14.7 PSIA with increasing flow
- Deactuation (decreasing flow) averages 30% less than actuation (increasing flow).
- Repeatability  $\pm 2\%$
- Unit will pass greater flows

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

## Temperature Operating Range

- 0° to 220°F (-17° to 104°C)
- For other temperature ranges consult factory.

Specifications				
Unit	Weight OZ (gm)	Max Working Pressure PSIG (barg)	Wetted Parts	Seals
Teflon®	4 (113.4)	80 (5.52)	Teflon®	Teflon®
Brass	12 (340.2)	1500 (103.42)	Brass, Epoxy	Viton®
316SS	12 (340.2)	3000 (206.84)	316SS, Epoxy	Viton®



## Calibration Table

Model		Air SCC/M (SCFH)	Water ML/M (GPH)	Ports FNPT
125	Minimum	30 (0.063)	1 (0.016)	1/8"
	Minimum	16000 (33.90)	500 (7.93)	

## Pressure Loss



Air Flowrate SCC/M (SCFH)	Water Flowrate ML/M (GPH)	$\Delta P$ to Atmosphere MBARS (Inches of Water)
30 (.064)	1 (0.016)	8.71 (3.50)
310 (.657)	30 (0.48)	25.8 (10.38)
1500 (3.178)	300 (4.76)	29.7 (11.92)
16000 (33.9)	500 (7.93)	63.8 (25.63)

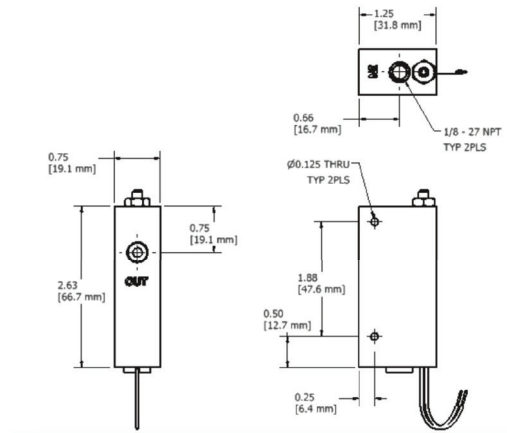


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Switch Data	SPST	SPDT
Maximum Switching Voltage		
DC (V)	200	175
AC (V)	150	120
Contact Rating		
DC (W)	50	5
DC (VA)	70	5
Maximum Switching Current (A)		
DC (A)	1.0	0.25
AC (A)	0.7	0.25

Leads	SPST UL File #E70063	SPDT UL File #E471070
 <p>leads 18 in. min. from body 22 AWG, TFE insulation</p>		<p>leads 18 in. min. from body 24 AWG, TFE insulation</p> <ul style="list-style-type: none"> <li>• green - N.C.</li> <li>• blue - N.O.</li> <li>• white - Common</li> </ul>



## Installation

Mount with the inlet port up vertically. Inlet port down changes the adjustable range of the unit. A 10 micron filter is recommended.

## How to Order

Sales@ChemTec.com | 800.222.2177

Model	Materials	Electrical Conduit (Optional)	Switch	Options
125	T Teflon® B Brass 316 Stainless	C (Metallic Bodies Only) (1/2" FNPT)	N.O. Single Pole Single Throw Normally Open  SPDT Single Pole Double Throw	TFE Teflon Encapsulated Piston**  O2 Oxygen Cleaned  HT High Temperature Options 340°F (171°C) metallic body only  KZ FFKM Perfluoroelastomer EPR EPR Seals BN Buna N Seals FP Factory Preset

\*Consult Factory \*\*Standard with Teflon unit | Viton® - E.I. Dupont & Co | Teflon® - E.I. Dupont & Co | Kalrez® - E.I. Dupont & Co  
All dimensions are subject to change for quality improvement. Not responsible for printing errors.