ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Find the *ChemTec 125-B* at our website: ***Click HERE***

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 ±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

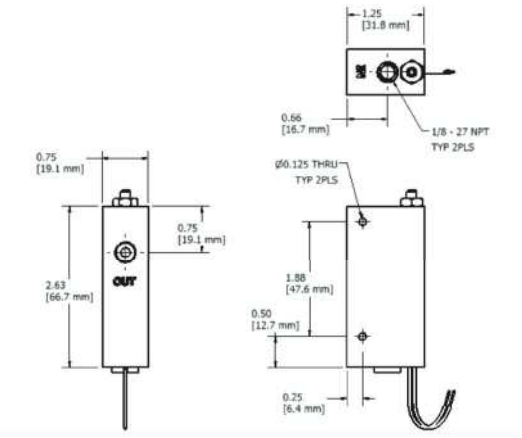
Air Flowrate SCC/M (SCFH)	Water Flowrate ML/M (GPH)	ΔP to Atmosphere MBARS (Inches of Water)
30 (.064)	1 (0.016)	8.71 (3.50)
310 (.657)	30 (0.48)	25.8 (10.38)
1500 (3.178)	300 (4.76)	29.7 (11.92)
16000 (33.9)	500 (7.93)	63.8 (25.63)

125 Series

Standard Unobtrusive Adjustable Flow Monitor

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
 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 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** 02 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
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