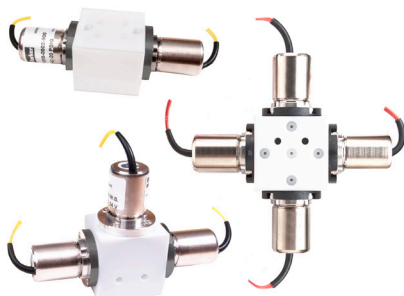


Series 18

Chemically Inert Manifold Liquid Valve

Isolation Manifold




Typical Applications

- Liquid Chromatography Gradient Generation
- Liquid Selection and Mixing Valve

The Series 18 is designed for compact installation in multi-liquid systems. Available with multiple inlets and one outlet (or vice-versa), the Series 18 features all wetted parts of PTFE. Tubing and connections between discrete valves are eliminated and dead volume is reduced. Repeatability and rapid response time make the Series 18 ideally suited for controlling small percentages of low flow liquids.

Features

- Provides unsurpassed chemical compatibility for a wide range of media with all wetted parts of PTFE.
- Low internal volume for reduced delay volume
- 100% continuous duty rating in ambient temperatures up to 66°C
- Low power for reduced heat generation and power consumption
- Fast response times for accurate, repeatable results
- Symmetrical design ensures fluid path length and timing is identical for each fluid channel
- 100% tested tight leak rate provides assurance of a quality seal
- Provides reliable operation for the life of your instrument
- RoHS compliant 

Product Specifications

Physical Properties

Valve Type:	Multi Station Diaphragm Isolation Valve		
Valve Configuration:	2-Way Normally Closed		
Media:	Liquids		
Operating Environment:	40 to 150°F (4 to 66°C)		
Dimensions:	See pages 3, 4 & 5		
Weight:	8 oz (226 g) [2 Station] 10.2 oz (289 g) (3 Station) 12.4 oz (352 g) [4 Station]		
Porting:	1/4-28 Threaded ports		
Internal Volume (µL):		Inlet Path	Outlet Path
2 station	12.6	25.2	42.4
3 station	12.6	25.2	42.4
4 station	12.6	25.2	57.1

Electrical

Voltage (VDC):	9	12	24
Power (Watts):	2.5	2.5	4.2
Current (mA):	273	211	173
Resistance (Ohm):	33	57	139
(Ω±5% @ 70°F, 21°C)			
Connections:	12" Lead Wires Standard 26 AWG, PTFE Insulated		

Wetted Materials*

Seals:	PTFE
Body:	PTFE

* See Chemical Compatibility Page
Consult factory for other options

Performance Characteristics

Operating Pressure/ Orifice Diameters:	Vacuum - 20 psig (1.4 bar) / 0.060" (1.52 mm)
Proof Pressure:	1.5X rated pressure
Leak Rate:	Bubble Tight
Response Time:	<12 ms
Recommended Filtration:	10 µm max
Reliability:	Life Cycle Rating of 10 million (Application dependent)