

vFlow valve manifold box is a compact and reliable semi-automatic system designed to distribute specialty gases for optimized safety and operations.

Features and Benefits

- Cost effective solution for specialty gas distribution
- Automatic stick shut down interlocks
- Readily integrated into existing or new facilities
- Small footprint
- User friendly controller
- Highly reliable components
- Optimized cost of ownership (low spare parts cost)
- Easily maintainable
- Modularized design
- Option of automatic stick shut down or main inlet shut down



Photo: VMB with 6" HMI (Actual controller may be different, see**)

Typical Applications

Critical distribution of Hazardous Production Material:

- Flammable / Pyrophoric gas
- Corrosive gas / Toxic gas

Performance & Reliability

- Uptime > 99.9993%
- MTBF > 3500 hours
- MTTR < 2 hours
- Standard peak flow rate: 0 – 20 lpm
- Simple operations

Safety

- Class 1 Div 2 UL for Electrical
- SEMI S2
- FMEA analysis
- Automatic shut down interlock

Options

- Automatic stick shut down or main inlet shut down
- Venturi-assisted vent
- **PLC with 6" colour HMI or Push Button
- Pressure transducer or gauge for pressure reading
- **Relay-based controller
- 4, 6 or 8 sticks

Utility Requirements

Utilities	Specifications	Connections
Non Process N ₂ Venturi*	2 scfm; 85 psig 55 slpm; 6 barg	1/4" VCR
Non Process N ₂ Z-purge	0.1scfm; 85 psig 3 slpm; 6 barg	1/4" compression
Exhaust	VMB4 50m ³ /hr, VMB4 80m ³ /hr	4" (100mm)
Vent *	To appropriate abatement unit	3/8" VCR
Purge N ₂	30lpm @ 85 psig; 6.5 barg	1/4" VCR
Power	85-240VAC, 50/60Hz 250W (UPS recommended)	2.5mm ² , 3 wires

* - if applicable

Enclosure	Description	Dimensions (L x W x H)	
VMB 4	4 sticks VMB	24" x 14 " x 38"	600mm x 350mm x 800mm
VMB 6/8	6/8 sticks VMB	32" x 14 " x 38"	800mm x 350mm x 800mm
VMB 8/10	8/10 sticks VMB	40" x 14 " x 38"	1000mm x 350mm x 800mm

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