

iFlow valve manifold panel is a compact and reliable manual system designed to distribute specialty gases for optimized operations.

■ Features and Benefits

- Cost Effective Solution for Inert Specialty Gas Distribution
- Simple Operations
- Small Footprint
- Highly Reliable Components
- Optimized Cost of Ownership (low spare parts cost)
- Easily Maintainable
- Modularized Design



■ Typical Applications

Critical distribution of Hazardous Production Material:

- Inert Gas

■ Performance & Reliability

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

■ Options

- External purge connections
- 4, 6 or 8 sticks

■ Utility Requirements

Utilities	Specifications	Connections
Purge N ₂ *	30 slpm @ 87 psig; 6 barg	1/4" VCR

* - if applicable

Enclosure	Description	Dimensions (L x H)	
VMP4	4 sticks VMP	16" x 21"	380mm x 500mm
VMP 6	6 sticks VMP	22" x 21"	520mm x 500mm
VMP 8	8 sticks VMP	27" x 21"	660mm x 500mm

VCR is a registered trademark of Swagelok

Special configuration on demand, please contact our sales for further information.

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 slpm
- Simple operations

■ Safety

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

■ Options

- Automatic stick shut down or main inlet shut down
- Venturi-assisted vent

■ Utility Requirements

- Pressure transducer or gauge for pressure reading
- **PLC with 7" colour HMI or Push Button
- **Relay-based controller
- 4, 6, 8 or 10 sticks

Utilities	Specifications	Connections
Non Process N ₂ Venturi*	2 scfm; 87 psig 55 slpm; 6 barg	1/4" VCR
Non Process N ₂ Z-purge	0.18 scfm; 87 psig 5 slpm; 6 barg	1/4" compression
Exhaust	VMB4: 50m ³ /hr, VMB6: 80m ³ /hr VMB8/10: 100m ³ /hr	4" (100mm) 6" (150mm)
Vent *	To appropriate abatement unit	3/8" VCR
Purge N ₂	30 slpm @ 87 psig; 6 barg	1/4" VCR
Power	85-240VAC, 50/60Hz 250W (UPS recommended)	2.5mm ² , 3 wires

* - if applicable

Enclosure	Description	Dimensions (W x D x H)	
VMB 4	4 sticks VMB	24" x 14 " x 47"	600mm x 350mm x 1200mm
VMB 6/8	6/8 sticks VMB	32" x 14 " x 47"	800mm x 350mm x 1200mm
VMB 8/10	8/10 sticks VMB	40" x 14 " x 47"	1000mm x 350mm x 1200mm

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The utility requirements and enclosure dimensions may vary according to equipment configuration

Special configuration on demand, please contact our sales for further information.

xFlow valve manifold box is a compact and reliable fully-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**
- **Enhanced Safety through Automatic purge program**
- **Small Footprint**
- **User Friendly controller**
- **Highly Reliable Components**
- **Optimized Cost of Ownership (low spare parts cost)**
- **Easily Maintainable**
- **Modularized Design**



■ 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
- PLC with 10" colour HMI
- Standard peak flow rate: 0 – 20 slpm
- Simple operations

■ Safety

- Class 1 Div 2 UL for Electrical
- FMEA analysis
- Automatic shutdown interlock
- Automatic stick purge

■ Options

- Expansion valve
- UV/IR or Gas sensor

- 4, 6, 8 or 10 sticks

■ Utility Requirements

Utilities	Specifications	Connections
Non Process N ₂ Venturi*	2 scfm; 87 psig 55 slpm; 6 barg	1/4" VCR
Non Process N ₂ Z-purge	0.18 scfm; 87 psig 5 slpm; 6 barg	1/4" compression
Exhaust	VMB4: 50m ³ /hr, VMB6: 80m ³ /hr VMB8/10: 100m ³ /hr	4" (100mm) 6" (150mm)
Vent	To appropriate abatement unit	3/8" VCR
Purge N ₂	30 slpm @ 85 psig; 6 barg	1/4" VCR
Power	85-240VAC, 50/60Hz 250W (UPS recommended)	2.5mm ² , 3 wires

Enclosure	Description	Dimensions (W x D x H)	
VMB 4	4 sticks VMB	24" x 14 " x 35"	600mm x 350mm x 900mm
VMB 6/8	6/8 sticks VMB	39" x 14 " x 39"	1000mm x 350mm x 1000mm
VMB 8/10	8/10 sticks VMB	47" x 14 " x 47"	1200mm x 350mm x 1200mm

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The utility requirements and enclosure dimensions may vary according to equipment configuration

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