FlexGas™

Manual/Semi-Automated Valve Manifold Box

Standard Configurations

- 4-stick [0-4 sticks populated]
- 8-stick [0-8 sticks populated]

Standard Features

- Modular design
- UHP construction methods
- 4 or 8 - Stick Inlet Manifold
- Fully seam-welded enclosure with lockable access door
- UHP 316L SS or VAR components, fittings and tubing
- 10 Ra internal surface finish
- Manufactured to "semiconductor grade" standards

System Options

- Pneumatic E-STOP only
- FlexPowr™ Controller
- Inlet filtration/purification
- PURGE CIRCUIT
- EVAC CIRCUIT
- Filtration
- High Flow

All UHP orbital welding performed in a CLASS 100/CLASS 10 Clean Room by ASME® Section IX Certified Weld Technicians.

The FlexGas™ Manual/Semi-Automated Valve Manifold Box is designed to meet the most demanding requirements for safe handling and Ultrahigh Purity (UHP) delivery of many process gases. A myriad of configurations are available to delivery to up to eight (8) points-of-use in this UHP and very compact package. Sister product to the popular FlexGas Gas Cabinet, it is also representative of SDC's continuous drive and commitment to providing the industry's safest and most reliable UHP specialty gas equipment available. Mass customization and modular design concepts of gas sticks and FlexPowr™ Controller architecture have combined to widen the product configuration to widen the product configuration spectrum and greatly increase user flexibility.

Shown as 4-stick w/ optional FlexPowr™ Controller, PURGE/EVAC Circuit, Stick Regulators and Stick Gauges.

From the Fab to the Lab to the University, SDC sets itself apart as the clear choice for value in today's budget conscious environment.

SDC, a Division of CVD Equipment Corporation
1117 Kings Highway | Saugerties, NY 12477 | Tel 845.246.3631 | Fax 845.246.1595 | www.stainlessdesign.com

FlexGas™
Manual/Semi-Automated Manifold Box

Gas Stick Options

- Pressure regulator
- Pressure gauge
- Coaxial pressure outlets
- Coax jacket monitor

FlexPowr™ Controller

- For automatic shutdown of VMB on individual sticks (4 -Valve only)
- User configuration Inputs/Outputs
- Process alarm output
- Exhaust pressure fail
- Hazard alarm output

Other Control Options
(w/FlexPowr™ Controller only)

- Gas leak detection
- UVIR detection

DImensions

- 17"W x 31"H* x 12.38"D

  *38"H w/FlexPowr™ Controller

SDC

OEM discounts and private-labeling services available.

The FlexGas™ VMB makes it easy to meet your exact gas delivery needs. Our modular design concept allows you to use a building-block method to configure a VMB to your specifications *no more paying way too much for a system that far-and-away exceeds your requirements.*

Start by choosing one of several base configurations. Begin customizing right at the gas panel level by selecting the number of gas sticks you require. Next, determine whether your systems needs only PURGE, only EVAC, or both PURGE & EVAC. Continue by configuring each individual gas stick to meet your process requirements. Stick options are listed on the front page.

Add safety and peace-of-mind by purchasing the optional FlexPowr™ Controller. A normally-closed ESO Valve is added as part of the FlexPowr Controller option for automatic shutdown of the INLET MANIFOLD. The FlexPowr Controller supports up to 4 dry-contact alarm inputs. Exhaust pressure switch, gas leak detection, & UVIR are just some of the optional controls components available for shutdown.

Please note that manual and/or semi-automtated systems like the FlexGas Mini™ VMB are not recommended for use in ALL applications. SDC recommends that FULLY AUTOMATED SYSTEMS be used for toxics, corrosives, pyrophorics, and other highly hazardous gases/liquified gases.

FACILITIES REQUIREMENTS

[1]Pneumatic Supply	adjustable to 90 psig	1 slm max.
[2]Process Purge	adjustable to 80 psig	30 slm max.
[3]Vacuum Drive	adjustable to 85 psig	85 slm max.
Process Vent	>1.0" WC	100 slm
[1]Power	115V, 3A	NA
Sprinkler [if used]	30 psig	31 gpm
Exhaust	0.15" H_2O 0.15" H_2O	150 scfm (2-cyl) 250 scfm (3-cyl)

[1]Needed only with optional FlexPowr™ Controller
[2]Needed only with optional PURGE CIRCUIT
[3]Needed only with optional EVAC CIRCUIT

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