

# SDC

## FlexGas™

### UHP Valve Manifold Panel

#### Standard Configurations:

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

#### Standard Features:

- UHP 316L SS or VAR components, fittings and tubing
- 10 Ra internal surface finish
- Manufactured to "semiconductor grade" standards
- Modular design

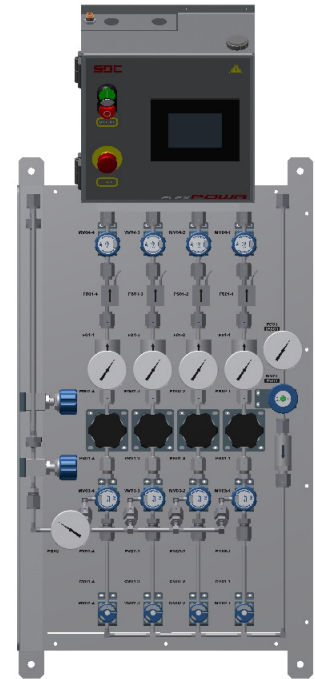
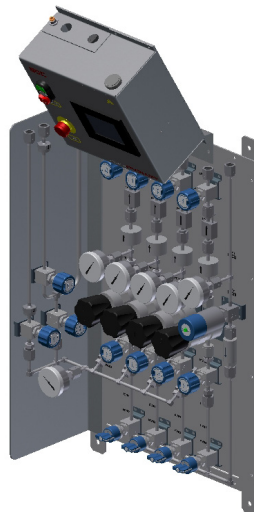
#### Configuration Options:

- Pneumatic EMO only
- FlexPowr™ controller
- Inlet filtration/purification
- PURGE CIRCUIT
- EVAC CIRCUIT
- HI-FLOW models

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

#### The FlexGas™ Valve Manifold

**Panel** is designed to meet the most demanding requirements for safe handling and Ultra-high Purity (UHP) delivery of many process gases. A myriad of configurations are available to deliver to up to eight (8) points-of-use in this compact UHP package. The FlexGas™ VMP is another example of SDC's continuous drive and commitment to providing the industry's safest and most reliable UHP specialty gas equipment available.



FlexGas™ VMP, 4-Stick with FlexPowr™ Controller

Mass customization and modular design concepts of gas panels and FlexPowr™ Controller architecture have combined to widen the product configuration.

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

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FlexGas\_Valve\_Manifold\_Panel\_3

# FlexGas™

## UHP Valve Manifold Panel

### Gas Stick Options:

- Pressure regulator
- Pressure gauge
- Pressure Transducer
- Filter (0.0003 µm)
- Excessive flow switch
- Automatic stick shutdown (up to 4 sticks)

### Optional FlexPowr™ Controller:

- For automatic shutdown of VMP
- For individual stick shutdown (up to 4 sticks)
- Color touch screen display
- User configurable - INPUTS/OUTPUTS
- EMO
- SCADA compliant using ModBus or other open protocol over Ethernet®

### Dimensions:

- 18.5"W x 21"H\* x 8.75"D  
\*27"H w/FlexPowr™ Controller



OEM discounts and private-labeling services available.

The FlexGas™ VMP 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 VMP to your specifications.

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.

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™ VMP 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

<sup>1</sup> Pneumatic Supply	adjustable to 90 psig	1 slm max.
<sup>2</sup> Process Purge	adjustable to 80 psig	30 slm max.
<sup>3</sup> Vacuum Drive	adjustable to 85 psig	85 slm max.
Process Vent	>1.0" WC	100 slm
<sup>1</sup> Power	115V, 3A	NA

<sup>1</sup>Needed only with optional FlexPowr™ Controller

<sup>2</sup>Needed only with optional PURGE CIRCUIT

<sup>3</sup>Needed only with optional EVAC CIRCUIT

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