

MV-1 Miniature Vaporizing Regulators



The MV-1 Series Miniature Vaporizing Regulator offers the same proven features found in our HPR-2 Series inside the smallest envelope the industry has to offer. Weighing in at a scant 0.86 pounds, the MV-1 is designed to supply heat to samples entering instrumentation systems where space is at a premium and quality cannot be compromised. It can be used to preheat liquids, to prevent condensation of gases or to vaporize liquids prior to gas analysis.

The pressure control section of the MV-1 is patterned after the time tested design of our CPR-1 and provides the same excellent outlet pressure stability. The heating plate utilizes GO Inc.'s unique Spiro-Wind heating element and incorporates an optional Thermal Cutout Device. This device prevents any exposed surface of the unit from exceeding 200°C under normal or fault conditions, and is exclusive to GO Inc.'s line of electrically heated vaporizing regulators. Offered in both 12 VDC and 24 VDC, the MV-1 Series offers the utmost in unequalled system safety and performance.

- 316L stainless steel construction
- Electro polished body with better than 25 Ra finish in diaphragm cavity
- Operating temperatures up to 385°F(196°C)
- Bubble tight shutoff
- [Click here for Maximum Temperature / Operating Inlet Pressures](#)
- Outlet pressure ranges are 10, 25, 50, 100, 250 and 500 psig
- Unique Spiro-Wind heating element provides exceptionally even heating
- Available in 12 VDC and 24 VDC
- Heating capacity ranges are 40 & 100 watts
- Optional TCO (Thermal Cut Out) heating cartridge and proportional controller
- Proof pressure is 2 times maximum working pressure
- Burst pressure is 4 times maximum working pressure
- Weight: 0.86 pounds (0.39 kg)
- Mounting style is surface or panel (see Outline and mounting dimensions)

Maximum Temperature & Operating Inlet Pressure

Seat Material	Maximum Temperature*		Maximum Operating Inlet Pressure
Tefzel®	up to 175° F (up to 80° C)	@	3600 psig (24.82 MPa)
	176° F to 300° F (80° C to 148° C)	@	1000 psig (6.90 MPa)
	301° F to 380° F (148° C to 193° C)	@	400 psig (2.76 MPa)
PCTFE (formerly Kel-F 81)	up to 380° F (up to 193° C)	@	3600 psig (24.82 MPa)
Polyimide	up to 380° F (up to 193° C)	@	3600 psig (24.82 MPa)
PEEK	up to 380° F (up to 193° C)	@	3600 psig (24.82 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the Tamper Proof option