

## Cylinder Vaporizer Electrically Heated Regulators



The Cylinder Vaporizer Series Heated Pressure Regulator is designed to supply heat to samples entering instrumentation systems. It can be used to preheat liquids, to prevent condensation of gases or to vaporize liquids prior to gas analysis.

The modular design of the HPR-2 consists of heat exchanger and pressure control sections. The pressure control section is patterned after the time proven design of the CYL-20 two stage pressure reducing regulator and provides the

same excellent outlet pressure stability with varying inlet pressures. The heat exchanger section is made up of a body and a heat exchange element. The heat exchange element uses GO Inc.'s unique spiral wrapped screen as the heat exchange surface. This screen has up to 100 square inches of heat transfer area and careful design forces all sample flow to pass through the element.

The Cylinder Vaporizer Series of vaporizing pressure reducing regulators are KEMA (Cenelec) approved. The electrical components of this unit are securely housed in a Class A,B,C,D conduit assuring that there is always an adequate flame path between the environment and the controller. Safety considerations can be further enhanced by using the optional TCO (Thermal Cut Out) heater cartridge and proportional controller. These features enable the unit to boast a T3 rating with 150 watts of power!

See for yourself how GO Inc.'s line of vaporizing regulators can be the answer to you most demanding needs.

- 316L stainless steel construction
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- Operating temperatures up to 385°F(196°C)
- Bubble tight shutoff
- Outlet pressure ranges are 10, 25, 50, 100, 250 and 500 psig
- Modular pressure control and heat exchanger assemblies for easy maintenance
- Unique spiral wrapped heat exchange element provides up to 100 square inches of heat transfer area
- Available in 120VAC or 240VAC
- Heating capacity ranges are 40, 50, 100 and 150 watts
- Optional TCO (Thermal Cut Out) heating cartridge and proportional controller
- KEMA certification # Ex-96.D.1862
- Proof pressure is 2 times maximum working pressure
- Burst pressure is 4 times maximum working pressure
- Weight: 8.7 lbs (3.95 kg)
- Mounting style is surface or panel (see Outline and mounting dimensions)

# Maximum Temperature & Operating Inlet Pressures

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)
High Density Teflon®	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)
CF Teflon®	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	up to 175° F (up to 80° C)	@	3600 psig (24.82 MPa)
Polyimide	up to 175° F (up to 80° C)	@	6000 psig (41.37 MPa)
PEEK™	up to 175° F (up to 80° C)	@	6000 psig (41.37 MPa)

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