

GO REGULATOR, INC.

A division of CIRCOR International, Inc.

Cylinder Vaporizer Electrically Heated Two Stage Pressure Regulators

The Cylinder Vaporizer electrically 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 design of the CV Series consists of heat exchanger and pressure control sections. The pressure control sections are patterned after the time proven design of the CYL-20 Two-Stage Pressure Reducing Regulator and provides the same excellent outlet pressure stability. The heat exchange element uses GO Regulator'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) approvals. 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.

Features & Specifications

- 316L stainless steel construction
- Hastelloy C and Monel optional
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- Operating temperatures up to 380° F (193° C)
- Bubble tight shutoff
- Outlet pressures 0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
- Unique spiral wrapped heat exchange element provides up to 100 square inches of heat transfer area
- Available in 110VAC or 240VAC
- Heating capacity ranges are 40, 50, 100 and 150 watts
- Optional TCO heating cartridge and proportional controller
- KEMA certification # EX-96.D.1862
- C_v flow coefficients of 0.06, 0.025, 0.2

2301 Wardlow Circle
Corona, CA 92880
tel 909.270.6200
fax 909.270.6201
www.goreg.com
sales@goreg.com

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How to Order

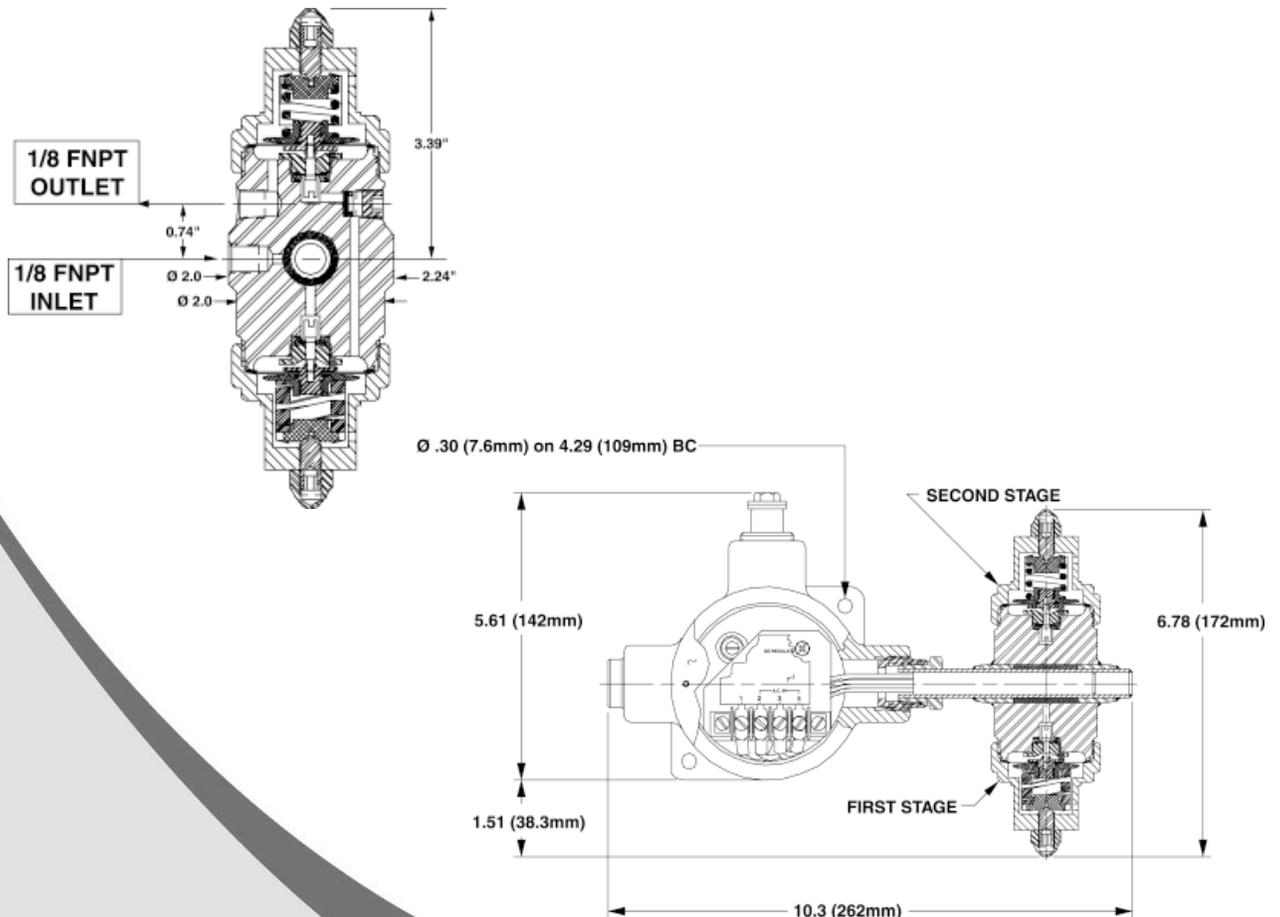
See page 3 for standard configurations. Consult factory for additional configurations.

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Tefzel®	Up to 175°F (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 (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-F81)	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)
Polyimide	Up to 380° F (193° C)	@	6000 psig (41.37 MPa)
PEEK	Up to 380° F (193° C)	@	6000 psig (41.37 MPa)

Tefzel® and Teflon® are registered trademarks of Dupont.

Outline and Mounting Dimensions



CV Two Stage Electrically Heated Vaporizing Regulator

1		SS 316L		Material of Body	
4		Monel			
A		Port Configuration STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)			
A		Seat Material (1st Stage)			
B		CF Teflon			
C		Polyimide			
H		PCTFE (formerly Kel-F 81)			
Q		PEEK			
3		0.06			
1		Tamp Proof, Standard, S.S.			
4		Tamp Proof, Panel Mount, S.S.			
A		Seat Material (2nd Stage)			
B		CF Teflon			
C		Polyimide			
H		PCTFE (formerly Kel-F 81)			
Q		PEEK			
3		0.06			
C		0 - 10 Psig			
D		0 - 25 Psig			
E		0 - 50 Psig			
G		0 - 100 Psig			
I		0 - 250 Psig			
J		0 - 500 Psig			
1		Tamp Proof, Standard, S.S.			
4		Tamp Proof, Panel Mount, S.S.			
1		55° F - 85° F			
2		75° F - 175° F			
3		130° F - 300° F			
4		260° F - 380° F			
1		40W			
2		50W			
3		100W			
4		150W			
1		On / Off			
2		Proportional			
1		Thermally Protected (TCO)			
2		Non-Thermally Protected			
1		110 VAC			
2		240 VAC			

C	V	-													
Material	Port Config.	Seat Material	Cv Flow	Cap Assembly	Seat Material	Cv Flow	Output Range	Cap Assembly	Temp Range	Heater Wattage	Controller Type	Thermistor Type	Voltage		
		1st Stage			2nd Stage										