

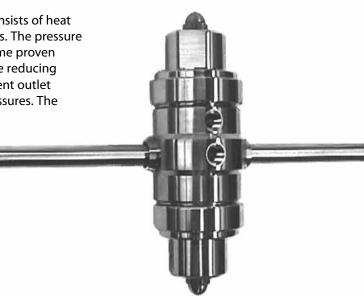
CV Series Cylinder Vaporizer

Steam Heated Two-stage Pressure Regulators

Introduction

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 design of the Cylinder Vaporizer 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 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 precise design forces all sample flow to



Typical Applications

pass through the element.

Analytical process sample conditioning systems:

- Petrochemical refineries
- Chemical production facilities
- Pilot plants (chemical & petrochemical)
- LNG loading and off-loading points
- Natural gas pipeline sampling

Technical Data

CONSTRUCTION	316L stainless steel		
OUTLET PRESSURES	0–10, 0–25, 0–50, 0–100, 0–250, and 0–500 psig		
OPERATINGTEMPERATURE	up to 550° F (285° C)		
C _V COEFFICIENTS	0.06, 0.025, 0.2		

Features & Benefits

- Optional Hastelloy[®] C-276 and Monel[®]
- Electropolished body with better than 25 Ra finish in diaphragm cavity for an optimal sealing surface
- Bubble-tight shutoff
- Unique spiral wrapped heat exchange element provides up to 100 square inches of heat transfer area.

GO Regulator 405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303 Phone (864) 574-7966 Fax (864) 574-5608 www.goreg.com • sales@goreg.com

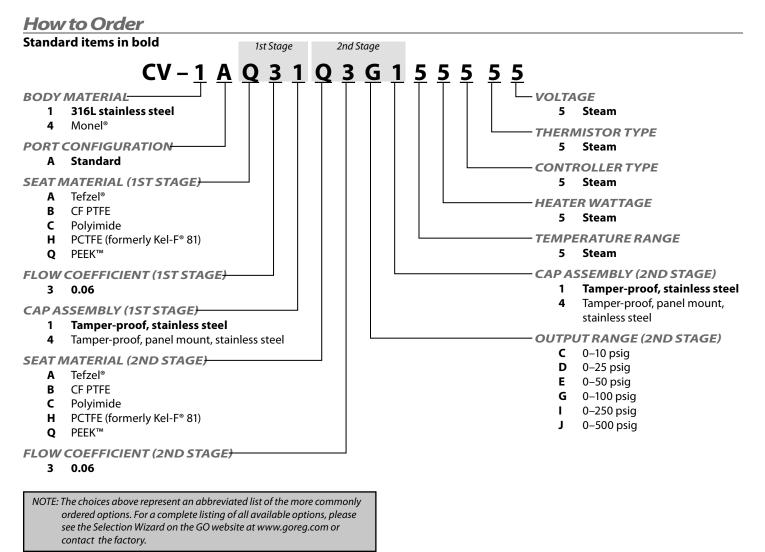
Pressure & Vacuum

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Tube & Fittings HVACR

Custom Services

CV Series Cylinder Vaporizer

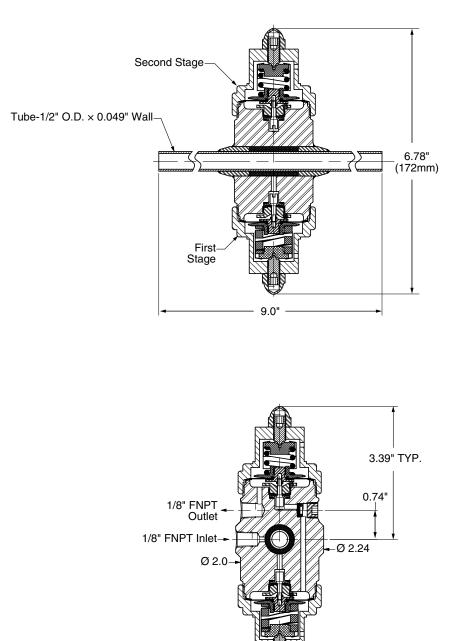


Maximum Temperature & Operating Inlet Pressures

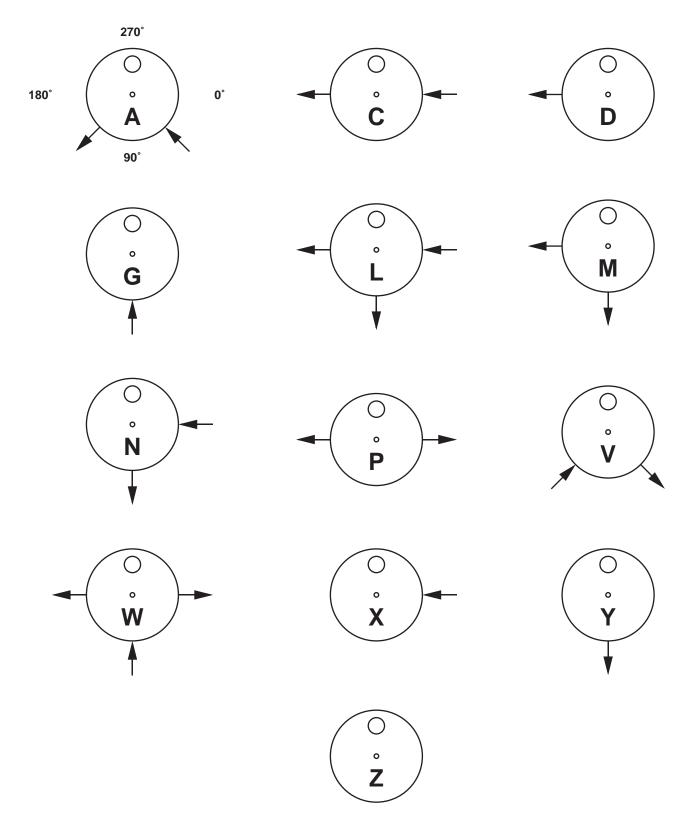
SEAT MATERIAL	MAXIMUM PRESSURE	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)
	176° F to 300° F	0	1000 psig (6.90 MPa)
	(80° C to 148° C)	@	
	301° F to 380° F	@	400 psig (2.76 MPa)
	(148° C to 193° C)	w	
High density PTFE	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)
	176° F to 300° F	@	1000 psig (6.90 MPa)
	(80° C to 148° C)		
	301° F to 380° F	Ø	400 psig (2.76 MPa)
	(148° C to 193° C)	w	
PCTFE	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)
(formerly Kel-F®)	Op to 380 T (193 C)	w	5000 psig (24.82 MP a)
Polyimide	Up to 380° F (193° C)	@	6000 psig (41.37 MPa)
PEEK™	Up to 380° F (193° C)	@	6000 psig (41.37 MPa)

CV Series Cylinder Vaporizer

Outline and Mounting Dimensions

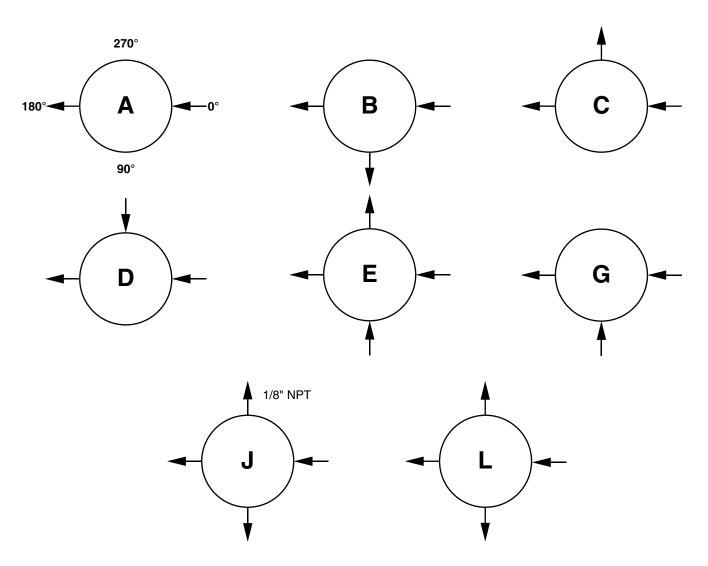


Porting Configurations (Pressure Regulator Body) for HPR-2 Steam & Electric and HPR-2XW Steam & Electric Series



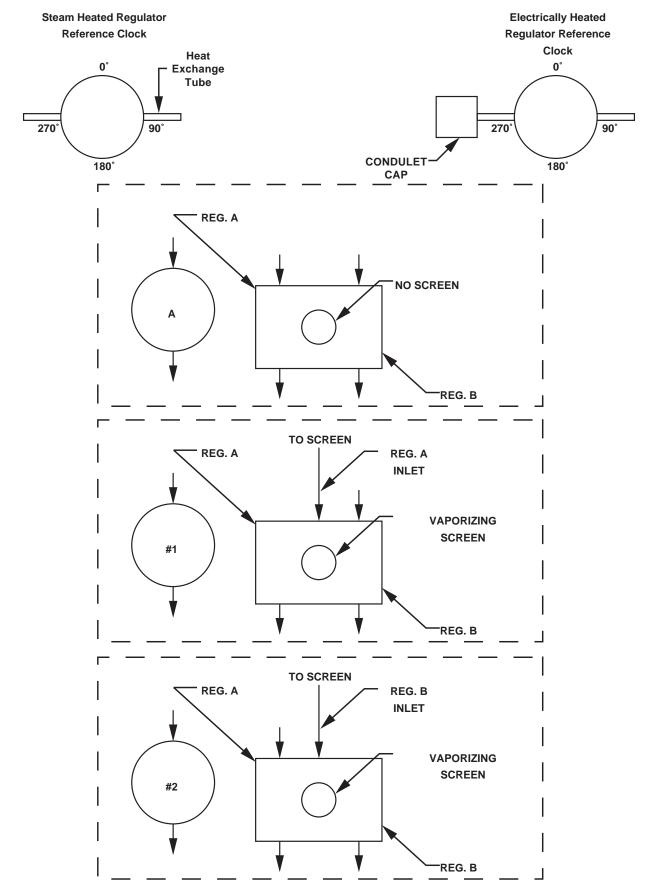
Location of ports from top view. Arrow pointing toward body is inlet. Arrow pointing away from body is outlet.

Porting Configurations for MV-1 Series



Location of ports from top view. Arrow pointing toward body is inlet. Arrow pointing away from body is outlet.

Porting Configurations for DHR Steam & Electric Series





Heater Block Configurations for HPR-2 Steam & Electric and HPR-2XW Steam & Electric Series

