

GO Regulator

LNG Series

Sample Vaporizer

Introduction

The heart of the LNG Vaporizer Assembly is the well-known HPR-2 Series heated pressure control valve. This unit has been used in many successful applications requiring heating of a process stream sample prior to analysis to prevent freeze up or for vaporization. The HPR-2 is a modularized unit consisting of a heated section and pressure control section. A field demonstration has now shown this vaporizer assembly to be serviceable in the vaporization of LNG product for analytical purposes and that homogeneous samples can be obtained under steady state operating conditions.

The HPR-2 pressure control valve is contained in a painted, insulated sheet metal enclosure and combined with an insulated input line plus a pressure gauge and relief valve. The heater section of the electric version is equipped with a thermostat for temperature control and is constructed to meet standard Division 1 Electrical Code requirements.



- LNG loading and off-loading points
- Petrochemical refineries
- Chemical production facilities
- Natural gas pipelines

Technical Data - Steam Heated

CONSTRUCTION	316L stainless steel			
OUTLET PRESSURES	0-10, 0-25, 0-50, 0-100, 0-250, and 0-500 psig			
INLET PRESSURE	up to 6000 psig at 380° F (193° C)			
OPERATING TEMPERATURE	up to 550° F (285° C)			
INLET CONNECTIONS	¹/8″ FNPT			
OUTLET CONNECTIONS	¹/₄″ FNPT			



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
- 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 and steam-heated
- Optional TCO heating cartridge and proportional controller
- INCONEL® diaphragm standard

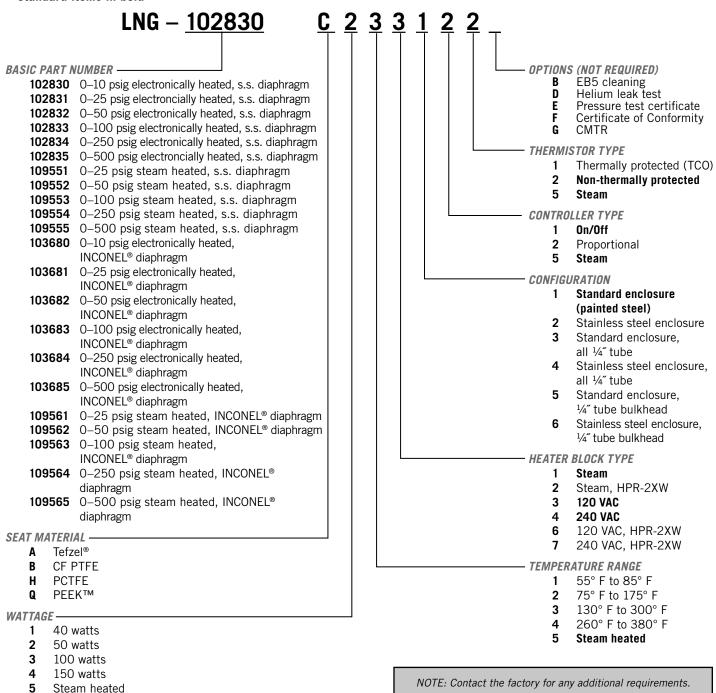
Technical Data – Electrically Heated

CONSTRUCTION	316L stainless steel			
OUTLET PRESSURES	0–10, 0–25, 0–50, 0–100, 0–250, and 0–500 psig			
INLET PRESSURES	up to 6000 psig at 380° F (193° C)			
HEATING CAPACITY RANGES (IN WATTS)	40, 50, 100, and 150			
CERTIFICATIONS	CSA certification # LR-82566-5 ATEX Directive 94/9/EC Certification # TRL03ATEX11001X			

To Order, contact your local Distributor Link below: <u>www.goreg.com/distributor/index.htm</u> Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/products/matrix/index.htm

How to Order

Standard items in bold



Maximum Temperature & Operating Inlet Pressures

HPR-2 Electric or Steam 2-piece Assembly

(Heater block and regulator body separate)

(Heater block and regulator body separate)					
SEAT MATERIAL	MAXIMUM PRESSURE	@	MAXIMUM OPERATING INLET PRESSURE		
	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)		
Tefzel®	176° F to 300° F (80° C to 148° C)	@	1000 psig (6.90 MPa)		
& CF PTFE	301° F to 380° F (148° C to 193° C)	@	400 psig (2.76 MPa)		
PCTFE (formerly Kel-F®)	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)		
PEEK™	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)		

HPR-2 Electric or Steam 1-piece Assembly

(Integral heater block and regulator)

	SEAT MATERIAL	MAXIMUM PRESSURE	@	MAXIMUM OPERATING INLET PRESSURE
	Tefzel® & CF 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)	w	
		301° F to 380° F	@	400 psig (2.76 MPa)
		(148° C to 193° C)		
	PCTFE (formerly Kel-F®)	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)
	PEEK™	Up to 380° F (193° C)	@	6000 psig (24.82 MPa)