GO_{REGULATOR}, INC.

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.

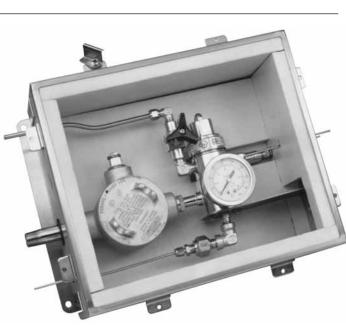
The HPR-2 pressure control valve is contained in a painted, insulated sheet metal enclosure and combined with an insulated input line plus a pressure gauge and relief valve. The heater section of the electric version is equipped with a thermostat for temperature control and is constructed to meet standard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

Typical Applications

- 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 up to 3600 psig at 380° F (193° C)					
INLET PRESSURE						
OPERATING Temperature	up to 500 F (260° C)					
INLET CONNECTIONS	½″ FNPT					
OUTLET CONNECTIONS	1⁄4″ FNPT					



Features & Benefits

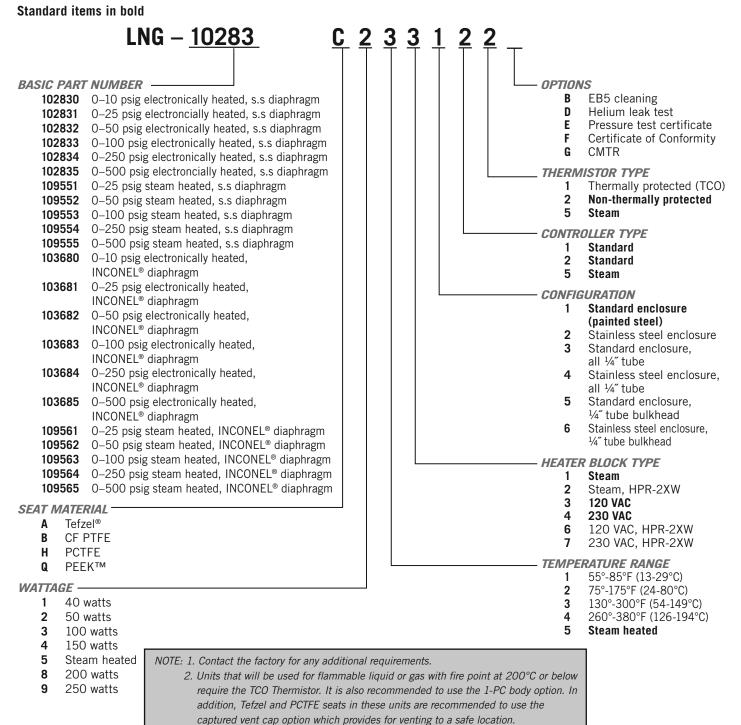
- Optional HASTELLOY® C-276 and MONEL®
- Electropolished body with better than 25 Ra finish in diaphragm cavity for an optimal sealing surface
- Bubble-tight shutoff
- Modular pressure control and heat exchanger assemblies for easy maintenance
- Unique spiral wrapped heat exchange element provides up to 100 square inches of heat transfer area.
- Available in 120VAC or 230VAC and steam-heated
- Optional TCO heating cartridge for T3 operation
- 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 PRESSURE	up to 3600 psig at 380° F (193° C)				
HEATING CAPACITY Ranges (in Watts)	40, 50, 100, and 150				
CERTIFICATIONS	CSA certification # LR-82566-5 ATEX Directive 2014/34/EU Certification # TRL03ATEX11001X				

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How to Order



Maximum Temperature & Operating Inlet Pressures

HPR-2 Electric				HPR-2 Steam			
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE	SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM OPERATING INLET PRESSURE
	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)	Tefzel®	Up to 380° F (193° C)	0	400 psig (2.76 MPa)
Tefzel®	176° F to 300° F	@	1000 psig (6.90 MPa)	CF PTFE & PCTFE	001000001(100-0)	W	400 psig (2.70 Mir a)
CF PTFE	(80° C to 148° C)	W		PEEK™	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)
& PCTFE	301° F to 380° F	@	400 psig (2.76 MPa)				
	(148° C to 193° C)						
PEEK™	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)				

LNG Series

Outline & Mounting Dimensions

Electrical

