

HPR-2XW Series

IRCOR

/ ENERGY

Steam Heated Pressure Regulator

Introduction

The HPR-2XW 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-2XW consists of heat exchanger and pressure control sections. The pressure control section is patterned after the time proven design of the PR-1 pressure reducing regulator and provides the same excellent outlet pressure stability. The heat exchanger section is made up of a body and heat exchange element. 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 pass through the element.

Completing this modular design is the incorporation of a removable heat exchange unit. This allows the user to remove and clean or replace the exchanger. This is especially useful when heating dirty liquids or liquids that polymerize and clog the heat exchange screen.

Typical Applications

- 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

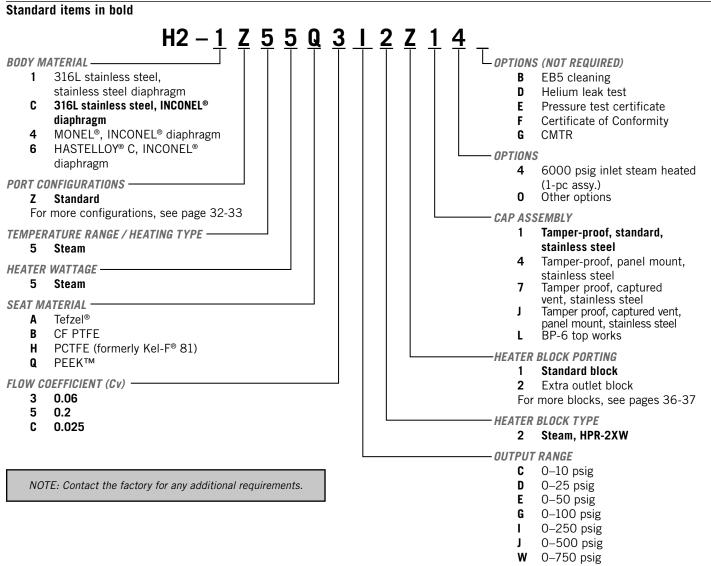
CONSTRUCTION	316L stainless steel		
OUTLET PRESSURES	0-10, 0-25, 0-50, 0-100, 0-250, 0-500, 0-750, and 0-1000 psig		
INLET PRESSURE	up to 6000 psig at 380° F (193° C)		
OPERATING Temperature	up to 550° F (285° C)		
C _V COEFFICIENTS	0.06, 0.025, 0.2		
INLET CONNECTIONS	¹/8″ FNPT		
OUTLET CONNECTIONS	1⁄4″ FNPT		

Features & Benefits

- Optional HASTELLOY[®] C 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.
- INCONEL[®] diaphragm standard

HPR-2XW Series

How to Order



K 0–1000 psig (BP-6 topworks)

Maximum Temperature & Operating Inlet Pressures

HPR-2XW Steam 2-piece Assembly

(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® & CF PTFE	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-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-2XW Steam 1-piece Assembly

(Integral heater block and regulator)

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	SEAT MATERIAL	MAXIMUM PRESSURE	@	MAXIMUM OPERATING INLET PRESSURE	
	_	Up to 175° F (80° C)	@	3600 psig (24.82 MPa)	
		176° F to 300° F	@	1000 psig (6.90 MPa)	
	Tefzel®	(80° C to 148° C)			
	& CF PTFE	301° F to 380° F	@	400 psig (2.76 MPa)	
		(148° C to 193° C)			
	PCTFE	Up to 380° F (193° C)	@	3600 psig (24.82 MPa)	
	(formerly Kel-F [®])	001000001 (100 0)	6	3000 p3g (24.02 Mil d)	
	PEEK™	Up to 380° F (193° C)	@	6000 psig (24.82 MPa)	