DUAL-HEATED PRESSURE REGULATOR















Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06





#### **INTRODUCING THE XHR310...**

The XHR310 is a diaphragm-sensed, dual-heated pressure regulator, designed to maintain sample liquids and gases in their vapour state.

Certified to ATEX directive 2014/34/EU, its two 100W heater cartridges are inserted in helical machined sheaths, which agitate the media to help with the heat transfer and analysis process. The steam-heated option replaces the heater cartridges with steam tubes.

The propriety PCB is easy to wire and incorporates a potentiometer to adjust the heater temperature setting, and independent channel isolation switches for liquid sampling.

Its electrical enclosure meets the requirements of IP66.

### ATEX AND IECEX MARKINGS

The markings on the equipment includes: Ex II 2G Ex db IIC T3 Gb -40°C ≤ Ta ≤ 60°C CE 2813

### **FEATURES AND BENEFITS**

2 X 100W HEATER CARTRIDGES

**UKCA 0518** 

Efficient heaters to maintain sample gases in their vapour state.

ATEX / IECEX CERTIFIED

Certified for use in category 2 zone 1 hazardous areas. Certificates viewable on www.pressure-tech.com.

#### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Soft Seat	PEEK™ (450G)
Valve Spring	Inconel® X750 (UNS N07750)
Diaphragm	Inconel® X750 (UNS N07750)
O-Rings	FKM/FPM (Viton)
Electric Enclosure	Feraloy Iron Alloy

### **SPECIFICATION**

Max. Rated Inlet Pressure	414 bar (6,000 psi)
Outlet Ranges	Up to 35 bar (510 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Wattage: 110V @ 60 Hz	2 x 100 W
Wattage: 240V @ 50 Hz	2 x 100 W
Weight	4.6kg (10.1lbs)

Note: Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

INCONEL® X750 DIAPHRAGM

> For ultimate strength and reliability on clean or corrosive applications.

OPTIONAL ENTRY POINTS FOR CABLE SUPPLY

Power cable supply from left, right or bottom side to suit installation requirements.

NOTE: Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues. Pressure Tech Ltd support with product selection recommendations only - it is the users responsibility to ensure the product is suitable for their specific application requirements









**DUAL-HEATED PRESSURE REGULATOR** 



• Gas • Liquid

Diaphragm

Piston



Non-Venting

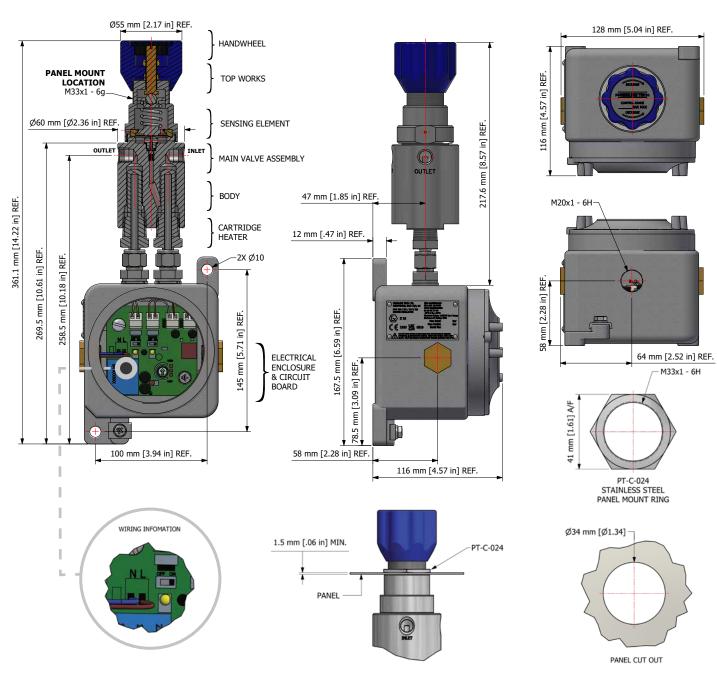
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## **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for 1/4" NPT option and standard configurations only - please contact the office for other options.



Note:

All gauge ports are 1/4" NPT as standard.

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PRESSURE TECH LTD

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

**DUAL-HEATED PRESSURE REGULATOR** 



• Gas • Liquid

Diaphragm



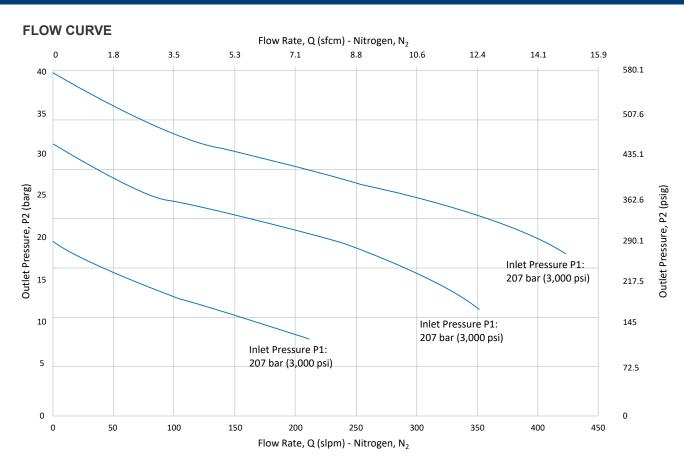
Self-Venting

Non-Venting

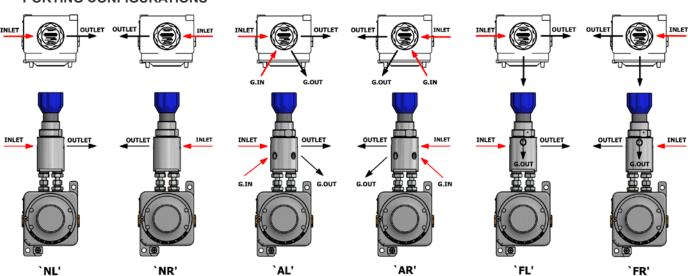
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### **PORTING CONFIGURATIONS**



Notes:

'AL' and 'AR': Gauge ports are not in the same axis as inlet and outlet ports Additional porting configurations are available - please contact the office for further information

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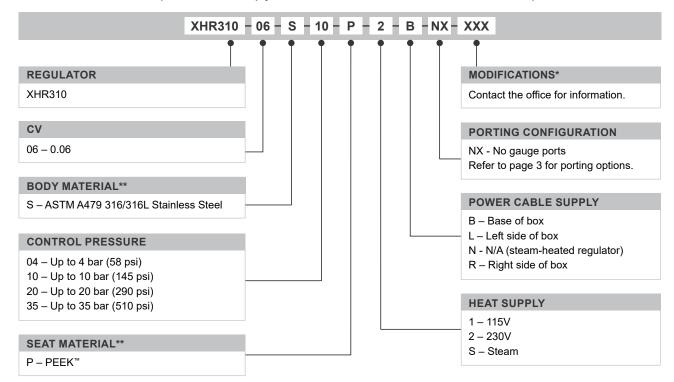
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## **ORDERING INFORMATION**

To build a Pressure Tech part number, simply combine the characters identified below in sequence:



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-LF310-06-U-P-M2-V	PEEK™ seat and FKM/FPM seals	
Panel Mounting Ring	PT-C-024	-	

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

Inconel® is a registered trademark of Inco Alloys International

- \* Where applicable
- \*\* Other materials may be available

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