**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 spiral machined sheaths, which agitate the media to help with the heat transfer and analysis process. Alternatively, 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.

In addition, its electrical enclosure meets the requirements of IP66.

### **ATEX MARKING**

The marking on the equipment includes:

Ex II 2 G T3

Ex db IIC T3

 $Ta = -40^{\circ}C \text{ to } +60^{\circ}C$ 

#### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -196°C to 538°C
Main Valve Pin	AISI 316/316L Stainless Steel
Soft Seat	PEEK <sup>™</sup> (450G) Approx. Temperatures: -50°C to 204°C
Valve Spring	Inconel® X750 (UNS N07750) Approx. Temperatures: -196°C to 700°C
Diaphragm	Inconel® X750 (UNS N07750)
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Electric Enclosure	Feraloy Iron Alloy

For the full list of material temperature ranges, please visit www.pressure-tech.com.

Note: Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific temperature

### **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
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 requirements

### **FEATURES AND BENEFITS**

2 X 100W HEATER CARTRIDGES

Efficient heaters to maintain sample gases in their vapour state.

ATEX / IECEX CERTIFIED

> Certified for use in category 2 zone 1 hazardous areas.

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





PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com



**DUAL-HEATED PRESSURE REGULATOR** 



• Gas • Liquid

Diaphragm

Piston



Non-Venting

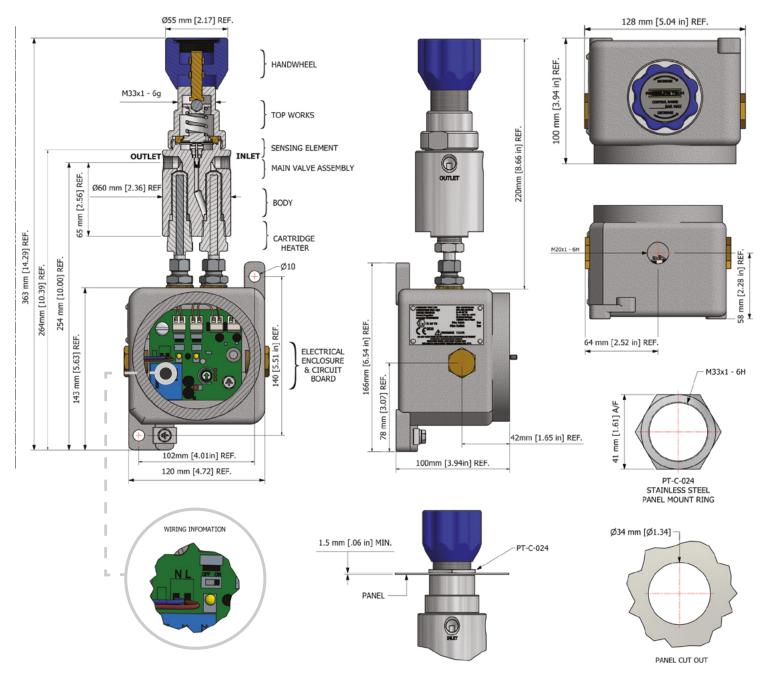
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06

## **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for 1/4" NPT option - please contact the office for additional connection options.



Note:

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

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





PRESSURE TECH LTD

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

+44 (0)1457 899 307

F sales@pressure-tech.com W www.pressure-tech.com



**DUAL-HEATED PRESSURE REGULATOR** 



• Gas • Liquid

Diaphragm

Piston

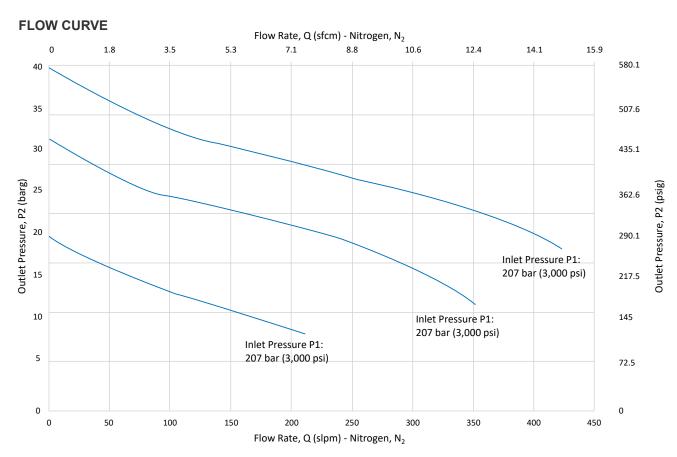
Self-Venting

Non-Venting

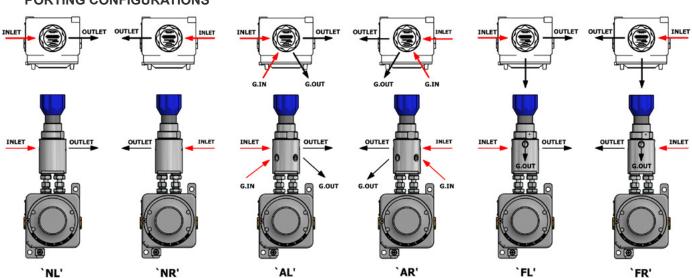
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06



### **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

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





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

+44 (0)1457 899 307

sales@pressure-tech.com

**DUAL-HEATED PRESSURE REGULATOR** 



● Gas ● Liquid

• Diaphragm Piston



Non-Venting

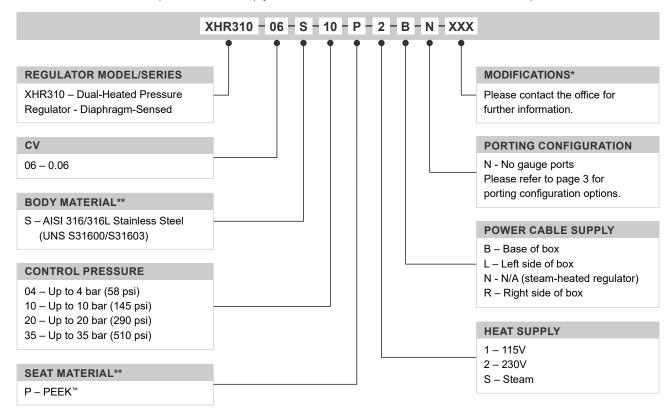
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06

## **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION
ervice Kit	SRK-LF310-06-U-P-M2-V	PEEK™ seat and FKM/FPM seals
anel 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 please contact the office

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





#### PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E sales@pressure-tech.com W www.pressure-tech.com



