

XHR310 Datasheet

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



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°C to +60°C

FEATURES AND BENEFITS

1 2 X 100W HEATER CARTRIDGES

Efficient heaters to maintain sample gases in their vapour state.

2 ATEX / IECEx CERTIFIED

Certified for use in category 2 zone 1 hazardous areas.

3 INCONEL® X750 DIAPHRAGM

For ultimate strength and reliability on clean or corrosive applications.

4 OPTIONAL ENTRY POINTS FOR CABLE SUPPLY

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

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	AISI 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	AISI 316/316L Stainless Steel (UNS S31600/S31603)
Soft Seat	PEEK™
Valve Spring	Inconel® X750
Diaphragm	Inconel® X750
O-Rings	FKM/FPM
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
Weight	4.6kg (10.1lbs)

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.



DESIGNED AND BUILT IN THE UK

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

090919

PAGE:
1 OF 4

XHR310 Datasheet

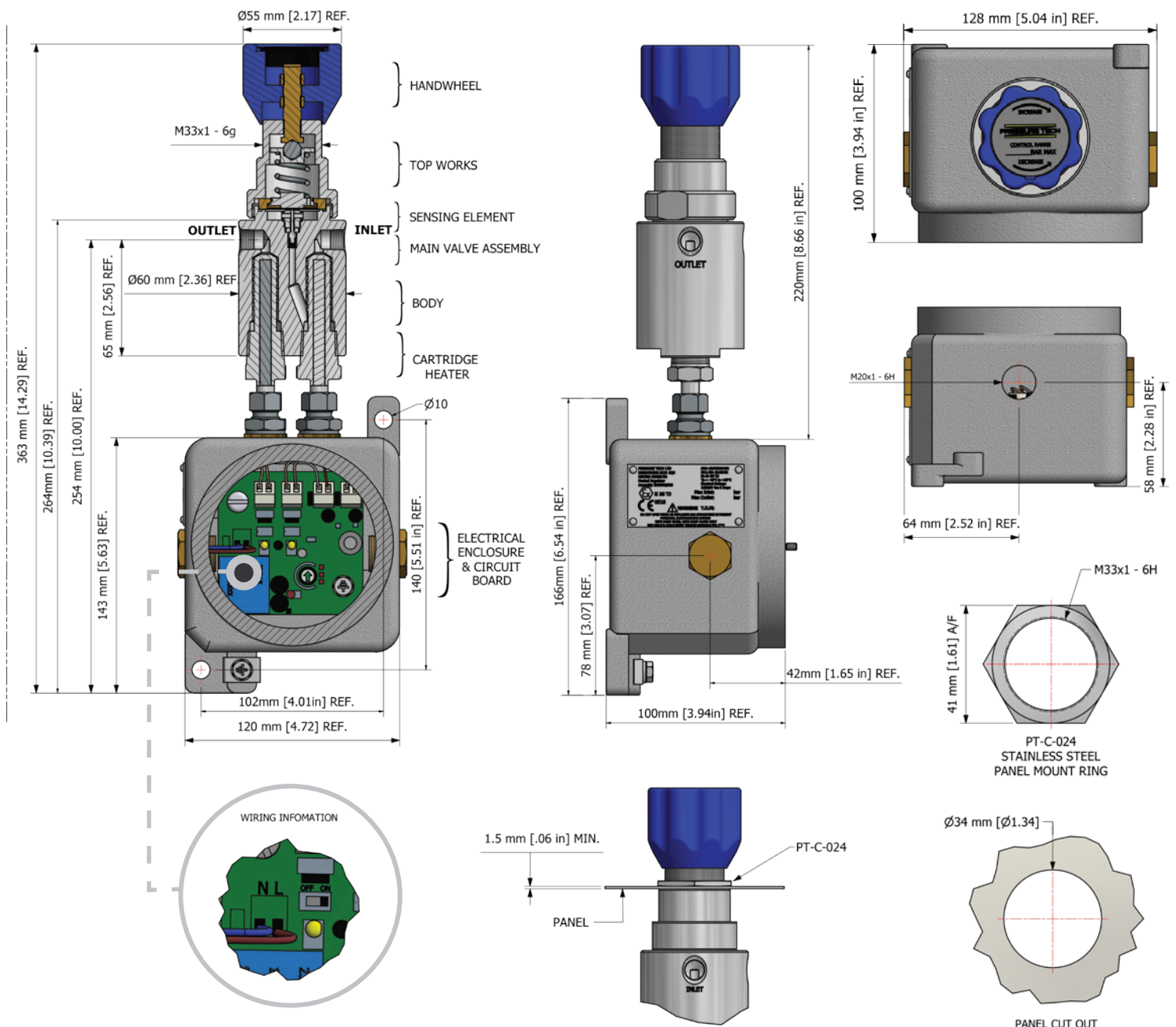
DUAL-HEATED PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 414 bar (6,000 psi) | Max Outlet: 35 bar (510 psi) | Cv 0.06

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.



DESIGNED AND BUILT IN THE UK

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

090919

PAGE:
2 OF 4

XHR310 Datasheet

DUAL-HEATED PRESSURE REGULATOR

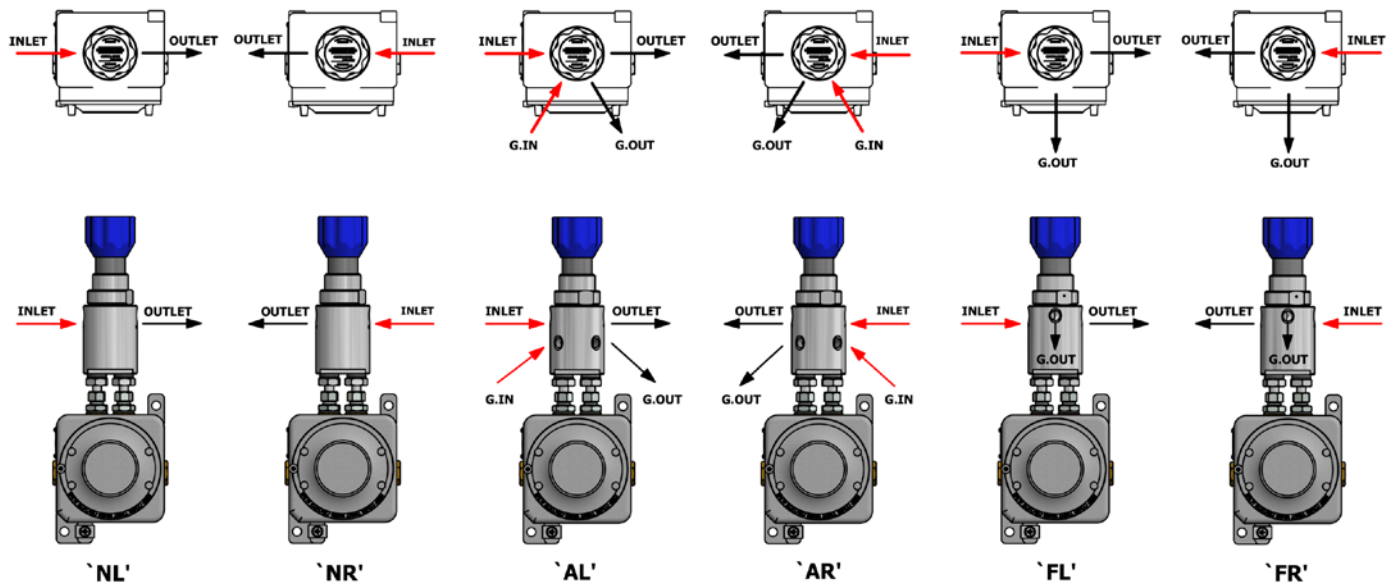


☐ Gas ☒ Liquid | ☒ Diaphragm ☐ Piston | ☐ Self-Venting ☒ Non-Venting | Max Inlet: 414 bar (6,000 psi) | Max Outlet: 35 bar (510 psi) | Cv 0.06

FLOW CURVE

Please contact the office for further information.

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

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.



DESIGNED AND BUILT IN THE UK

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

090919

PAGE:
3 OF 4

XHR310 Datasheet

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

ORDERING INFORMATION

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

XHR310 - 06 - S - 10 - P - 2 - B - N - XXX							
REGULATOR MODEL/SERIES XHR310 – Dual-Heated Pressure Regulator - Diaphragm-Sensed							MODIFICATIONS* Please contact the office for further information.
CV 06 – 0.06							PORTING CONFIGURATION N - No gauge ports Please refer to page 3 for porting configuration options.
BODY MATERIAL** S – AISI 316/316L Stainless Steel (UNS S31600/S31603)							POWER CABLE SUPPLY B – Base of box L – Left side of box N - N/A (steam-heated regulator) R – Right side of box
CONTROL PRESSURE 04 – Up to 4 bar (58 psi) 10 – Up to 10 bar (145 psi) 20 – Up to 20 bar (290 psi) 35 – Up to 35 bar (510 psi)							HEAT SUPPLY 1 – 115V 2 – 230V S – Steam
SEAT MATERIAL** P – PEEK™							

OPTIONAL EXTRAS

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

Note:

Ancillary Equipment and additional Service Kit options also available.

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.



DESIGNED AND BUILT IN THE UK



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

090919

PAGE:
4 OF 4