

XHR311 Datasheet

DUAL-HEATED PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 414 bar (6,000 psi) | Max Outlet: 150 bar (2,175 psi) | Cv 0.06



INTRODUCING THE XHR311...

The XHR311 is a piston-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 the following information:

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 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

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 |
| Piston | AISI 316/316L Stainless Steel (UNS S31600/S31603) |
| O-Rings | FKM/FPM |
| Electric Enclosure | Feraloy Iron Alloy |

SPECIFICATION

| | |
|---------------------------|----------------------------------|
| Max. Rated Inlet Pressure | 414 bar (6,000 psi) |
| Outlet Ranges | Up to 150 bar (2,175 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

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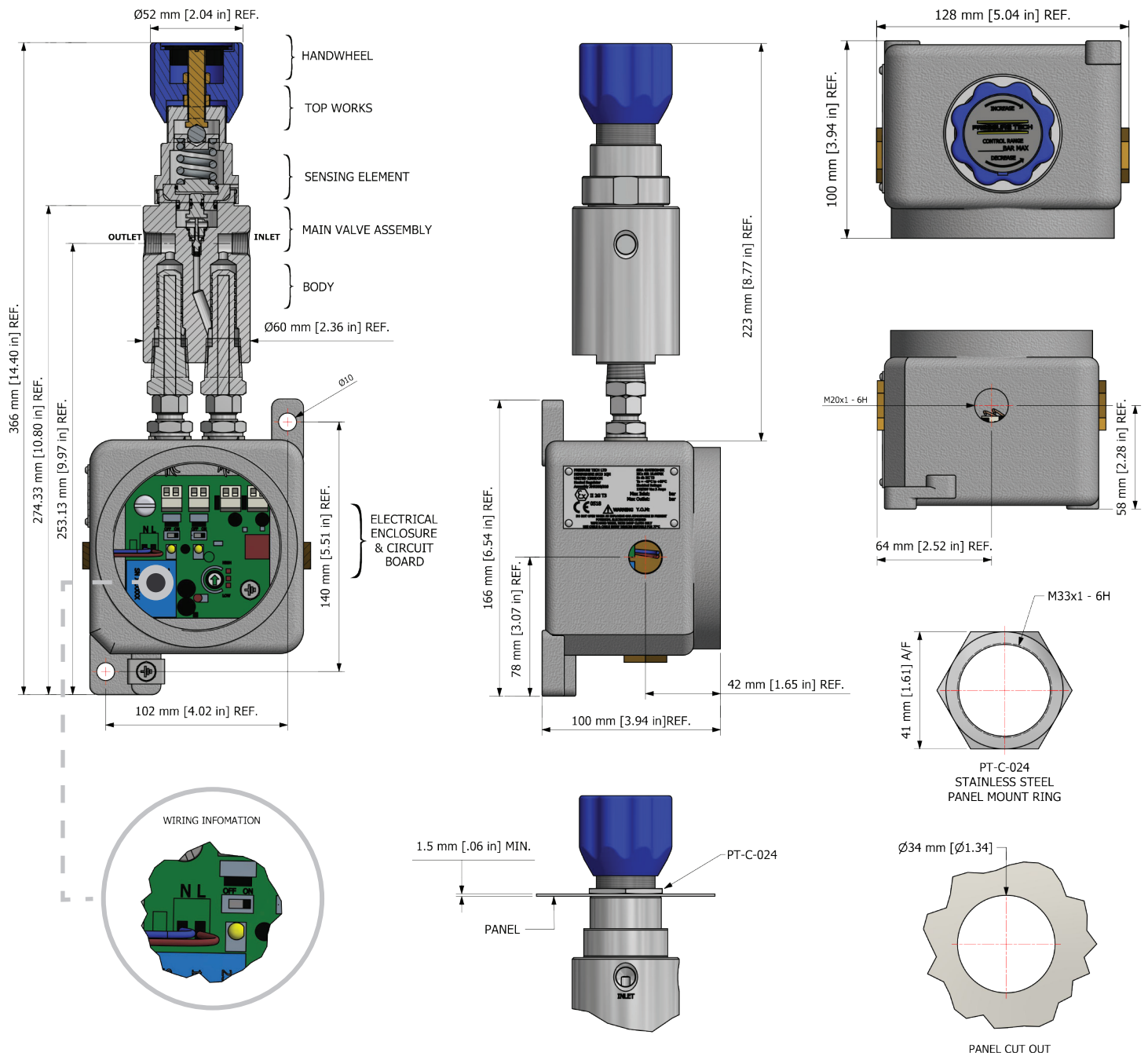
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DRAWINGS AND INSTALLATION DIMENSIONS

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



Note:

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

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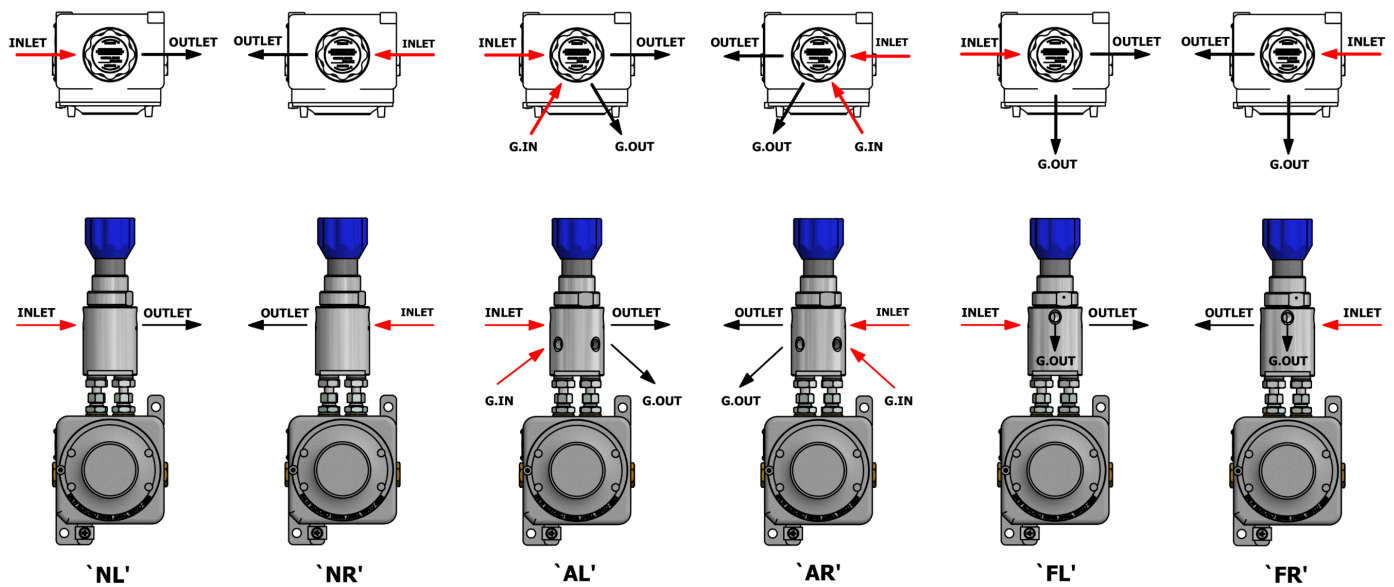


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FLOW CURVE

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.

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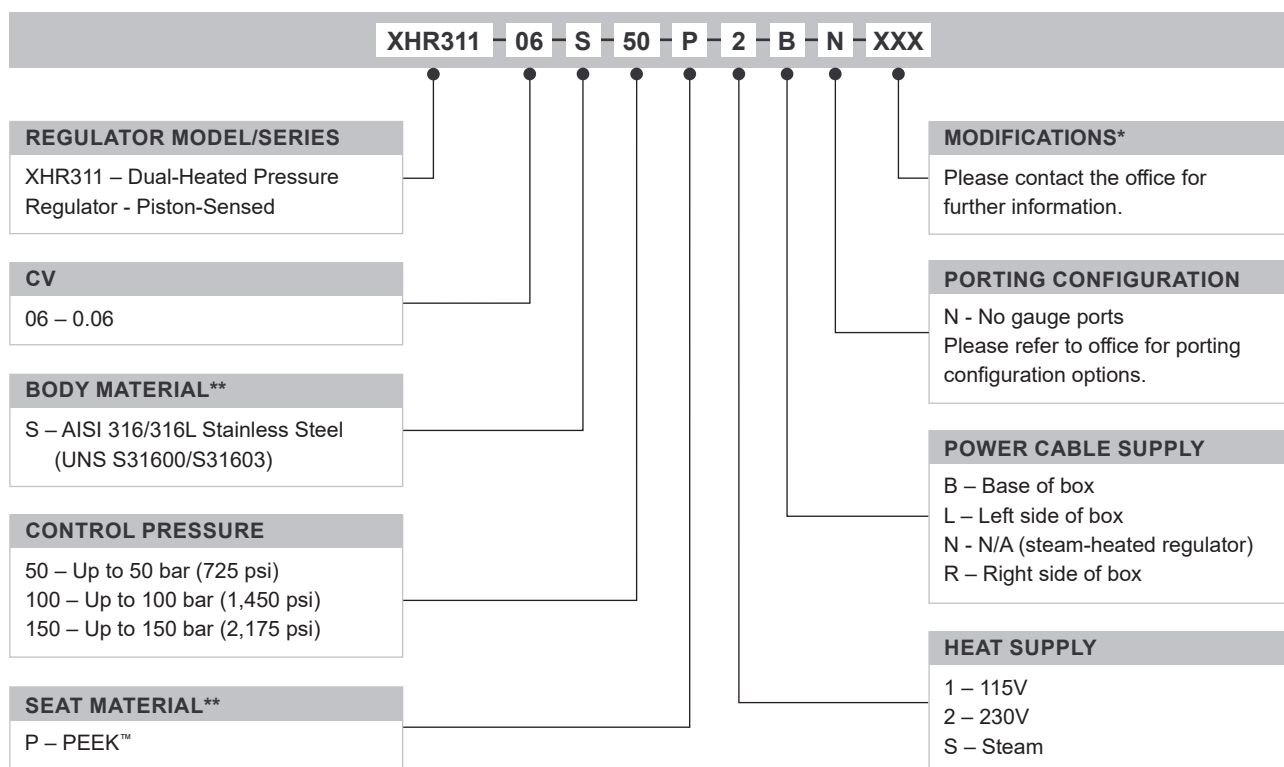
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

| | PART NUMBER | DESCRIPTION |
|---------------------|--------------|---------------------------|
| Service Kit | SRK-LF311... | Various options available |
| Panel Mounting Ring | PT-C-024 | - |

Note:

Ancillary Equipment and additional Service Kit options also available.

TRADEMARK: PEEK™ is a trademark of Victrex PLC

* Where applicable

** Other materials may be available - please contact the office

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