

# XHR310 Datasheet

DUAL-HEATED PRESSURE REGULATOR  
(STEAM-HEATED OPTION)

**PRESSURE TECH**

● 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 STEAM-HEATED XHR310...

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

The steam-heated option utilises steam tubes rather than heater cartridges to agitate the media and help with the heat transfer and analysis process.

The XHR310 incorporates the LF310 regulator - further details may be found on the LF310 datasheet.

## 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)

## 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	2.5kg (5.5lbs)

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

## FEATURES AND BENEFITS

### 1 STEAM-HEATED

Utilises steam, rather than electric to perform the heating function.

### 2 INCONEL® X750 DIAPHRAGM

For ultimate strength and reliability on clean or corrosive applications.

### 3 40 MICRON INLET FILTER

First stage soft seat protection from system contamination.

### 4 SOLID DISK SEAT DESIGN

Robust design enabling higher inlet pressures of 414 bar (6,000 psi).

**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

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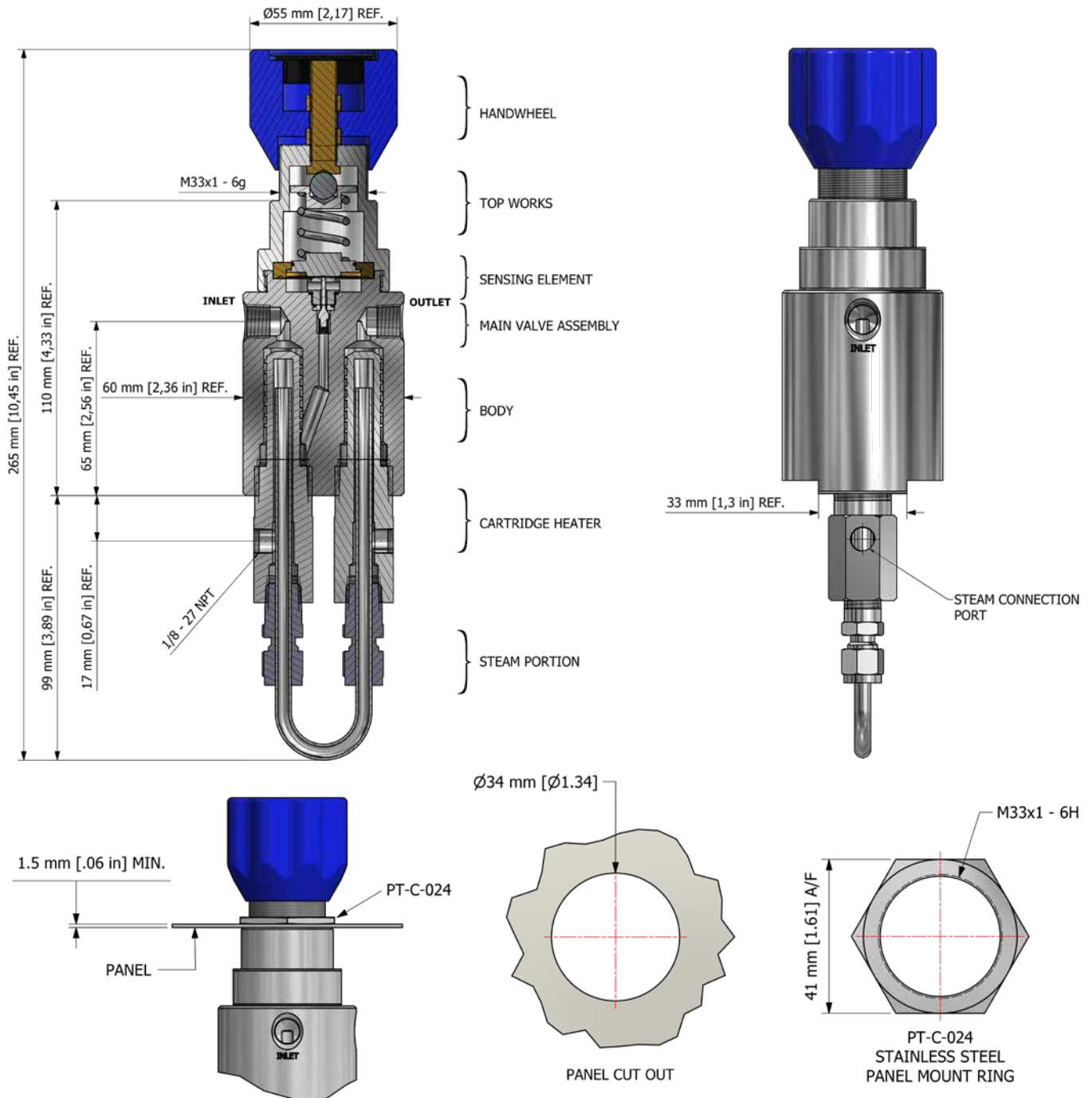
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## DRAWINGS AND INSTALLATION DIMENSIONS

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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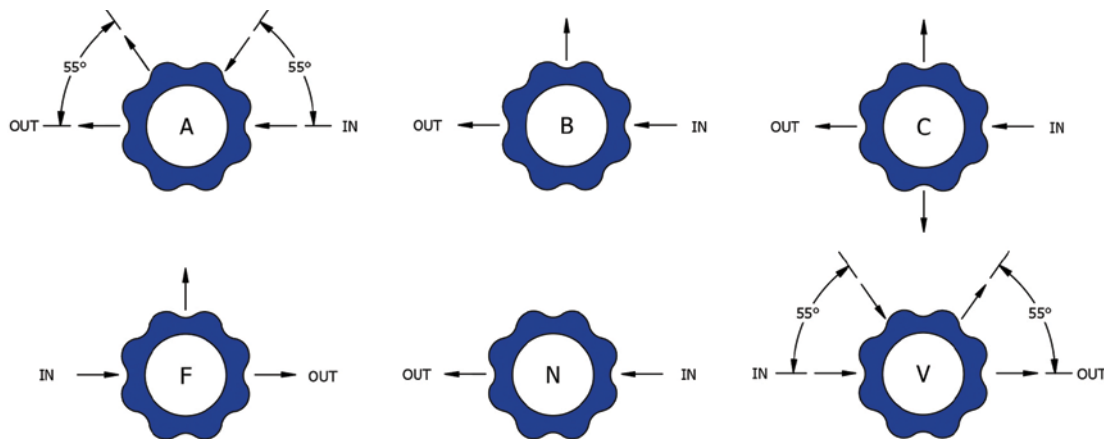
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## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



### Notes:

Additional porting configurations are available - please contact the office for further information.

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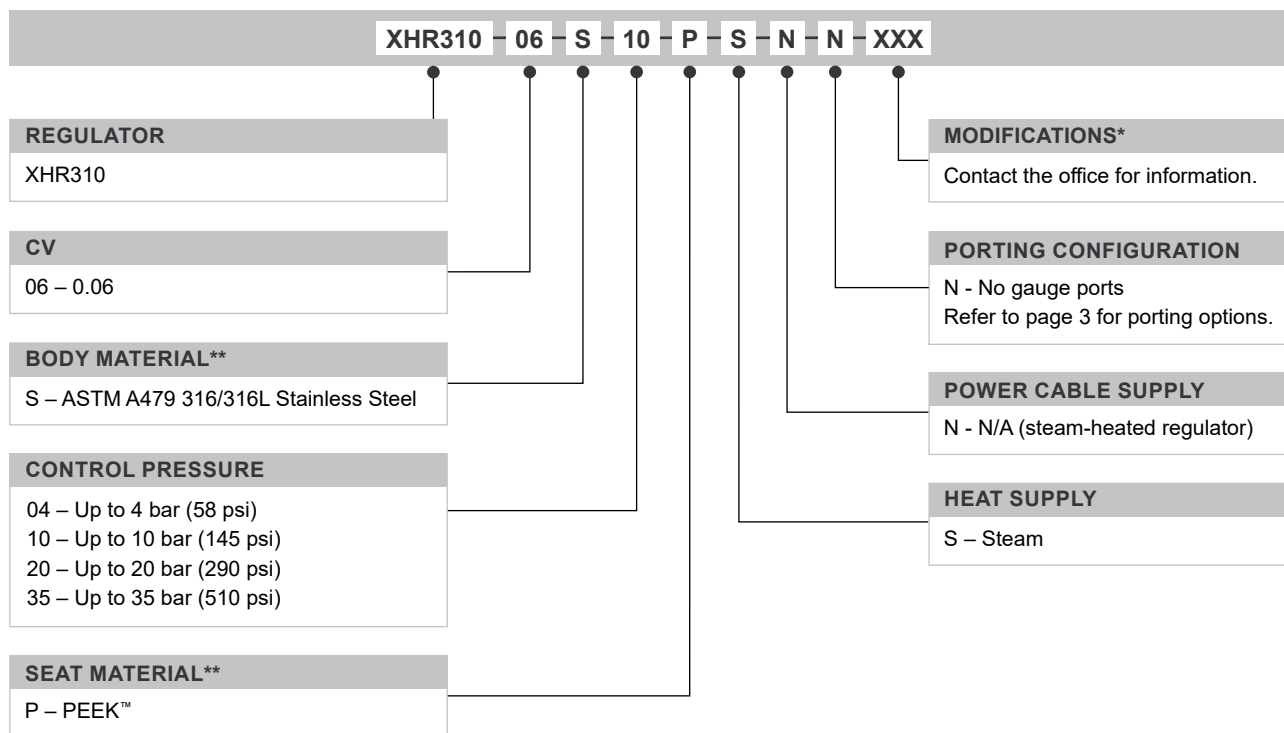
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## ORDERING INFORMATION

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



## OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-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

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