SINGLE-HEATED PRESSURE REGULATOR





Diaphragm Piston





Non-Venting

Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06



INTRODUCING THE XHS410...

The XHS410 is an economical single heated regulator, available in side-entry (SE) or in-line (IL) heat transfer options to maintain sample gases in their vapour state. The SE design can be used where heat transfer is less critical, and where installations have height restrictions. The IL design maximises the heat transfer area via a spiral machined heater sheath, which mixes the gas and ensures efficient heat transfer. It is certified to ATEX. IECEx and CSA and its electrical enclosure meets the requirements of IP66 and NEMA 4X specifications.

ATEX AND IECEX EQUIPMENT MARKINGS

Ex II 2 G Ex db IIC T3 Gb -40°C ≤ Ta ≤ 60°C CE 2183

USA AND CANADA EQUIPMENT MARKINGS

US and CAN: CL I, D1 T3 Gps A-D US: CL1. Zone 1 AEx db IIC T3 Gb CAN: Ex db IIC T3 Gb (as IEXEx)

Ta: -40°C to 59°C

PRODUCT CERTIFICATIONS









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
Soft Seat	PEEK™ (450G)
Valve Spring	Inconel® X750 (UNS N07750)
Diaphragm	Inconel® X750 (UNS N07750)
O-Rings	FKM/FPM (Viton)
Electric Enclosure	Aluminium (or ASTM A479 316/316L Stainless Steel)

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	100 W		
Wattage: 240V @ 50 Hz	100 W		
Temperature Control Range	30°C to 180°C		
Min. Ambient Temperature	-40°C		
Max. Enclosure Temperature	65°C		
Regulator Max. Body Temp	150°C		
Weight	4.1kg (9lbs)		

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

ATEX, IECEX & CSA **CERTIFIED**

Certified for use in hazardous areas.

ALTERNATIVE MATERIALS **AVAILABLE**

Manifold is available in aluminium or 316 stainless steel.

DIGITAL TEMPERATURE READOUT

Digital display of set point or actual temperature (°C or °F).

OPTIONAL POWER SUPPLY

110 or 230V AC.

LOCAL OR REMOTE **ADJUSTMENT**

Local or remote temperature setpoint adjustment via analogue 4-20mA input signal.







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IN-LINE

• Gas Liquid

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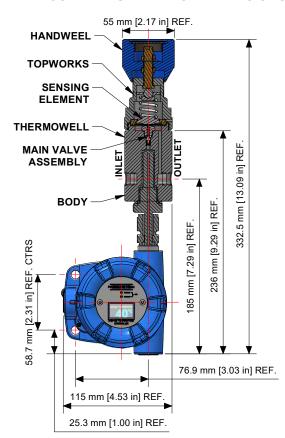
Non-Venting

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Max Outlet: 35 bar (510 psi)

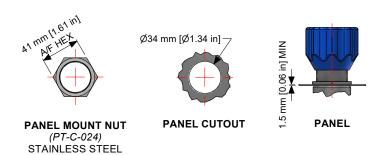
Cv 0.06

DRAWINGS AND INSTALLATION DIMENSIONS

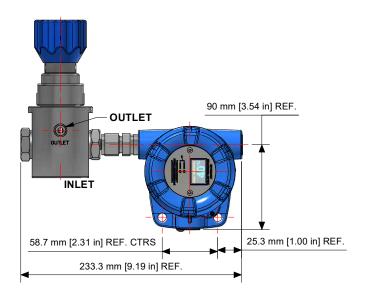


All gauge ports are 1/4" NPT as standard.

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



Ø55 mm [Ø2.17 in] REF. 221.6 mm [8.72 in] REF. SIDE-ENTRY 130.2 mm [5.13 in] REF. 12 mm [0.47 in] REF 105 mm [4.14 in] REF.



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

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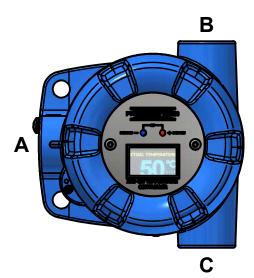


Max Inlet: 414 bar (6,000 psi)

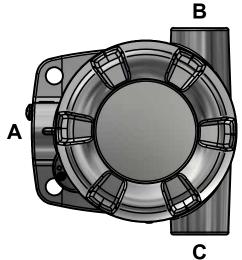
Max Outlet: 35 bar (510 psi)

Cv 0.06

ENCLOSURE OPTIONS



ALUMINUM (WITH WINDOW)



STAINLESS STEEL (SOLID COVER)

	ENCLOSURE OPTIONS			
		CONDUIT (A)	CONDUIT (B)	CONDUIT (C)
ALUMINIUM WITH WINDOW	Α	1/2" NPT	1/2" NPT	1/2" NPT
	В	NONE	1/2" NPT	1/2" NPT
	С	NONE	M20	M20
ALUMINIUM SOLID COVER	D	1/2" NPT	1/2" NPT	1/2" NPT
	Е	NONE	1/2" NPT	1/2" NPT
	F	NONE	M20	M20
STAINLESS STEEL WITH WINDOW	G	1/2" NPT	1/2" NPT	1/2" NPT
	Н	NONE	1/2" NPT	1/2" NPT
	J	NONE	M20	M20
STAINLESS STEEL SOLID COVER	K	1/2" NPT	1/2" NPT	1/2" NPT
	L	NONE	1/2" NPT	1/2" NPT
	М	NONE	M20	M20

Note:

Powder coated aluminium enclosure corrosion rating: Rating 6.5 (1000 hr. salt spray test in accordance with NSS salt spray test to ISO-9227 / ASTM B-117/ BS EN6068-2-11:1999)





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● Gas ● Liquid

Diaphragm

Piston



Non-Venting

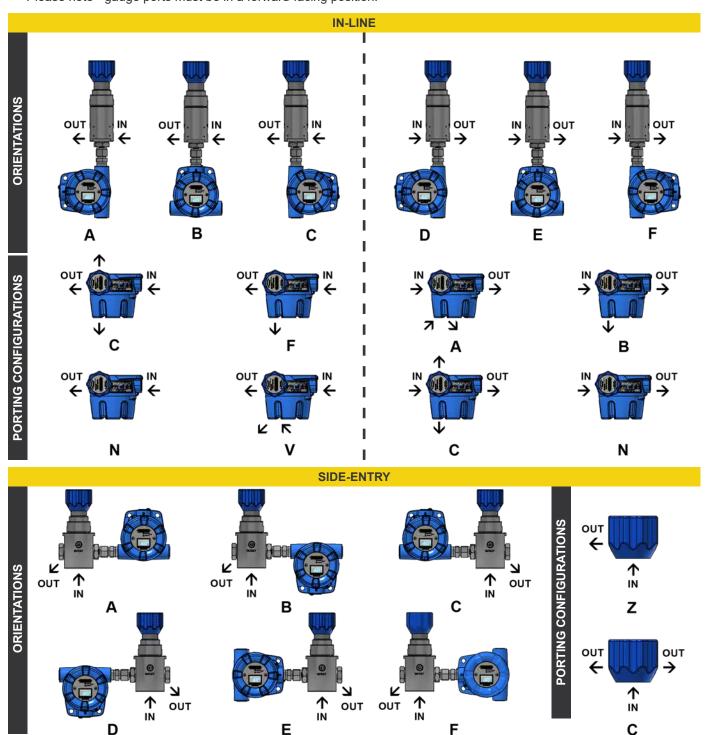
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ASSEMBLY ORIENTATIONS

To select a valid assembly, choose your required orientation and then combine with a compatible porting configuration. Please note - gauge ports must be in a forward-facing position.







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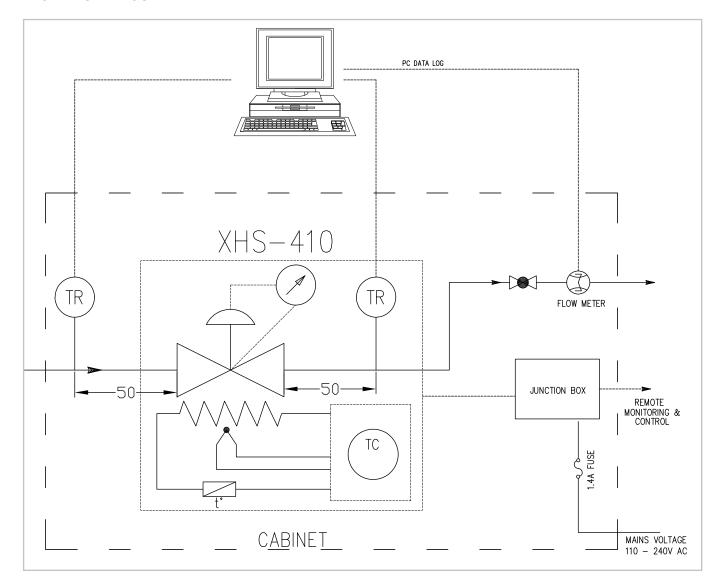


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FLOW TEST LAYOUT









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● Gas Liquid

Diaphragm Piston

Self-Venting

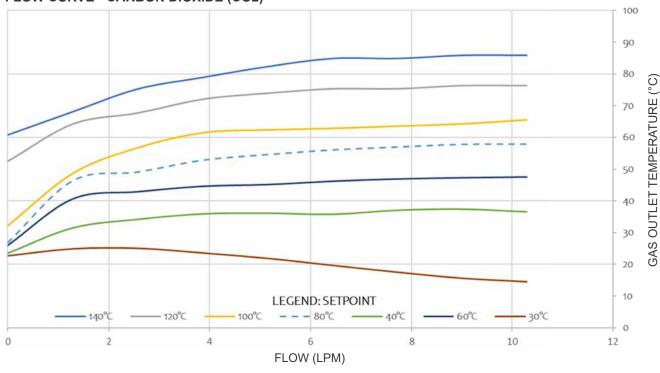
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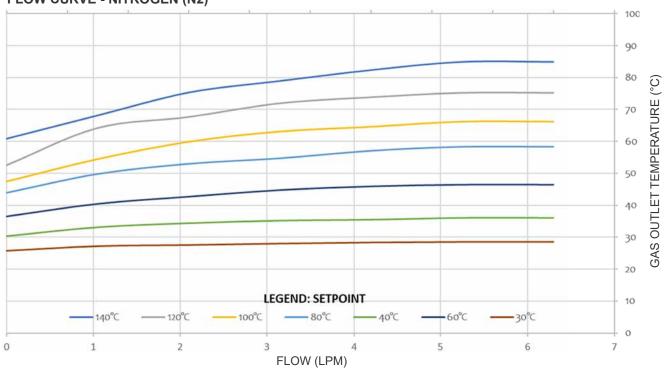
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FLOW CURVE - CARBON DIOXIDE (CO2)



FLOW CURVE - NITROGEN (N2)









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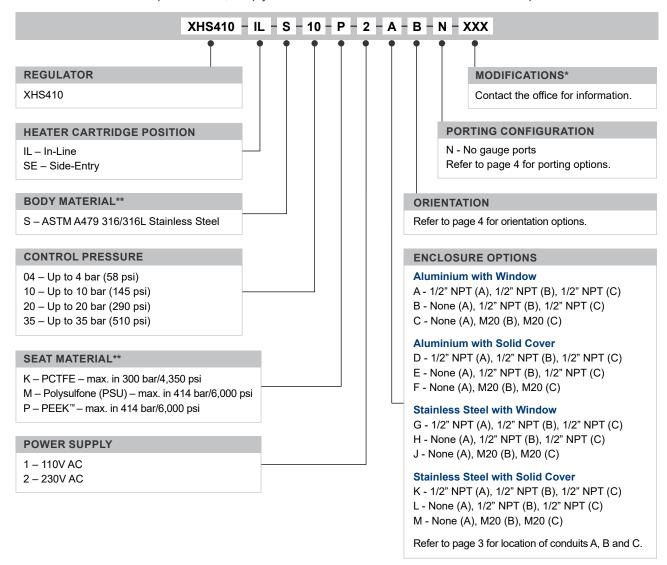
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ORDERING INFORMATION

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



OPTIONAL EXTRAS			
	PART NUMBER	DESCRIPTION	
Service Kit	SRK-LF310	Various options available	
Panel Mounting Ring	PT-C-024	-	
Note: Ancillary Equipment 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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