SINGLE-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



#### **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.

The XHS410 is certified to ATEX, IECEx and CSA and its electrical enclosure meets the requirements of IP66 and NEMA 4X specifications.

#### ATEX AND IECEX MARKINGS

The markings on the equipment includes:

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

CE 2183

#### **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 (UNS S31600/S31603)
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
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.

#### **USA AND CANADA MARKINGS**

The markings on the equipment includes:

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

#### **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



DiaphragmPiston





Non-Venting

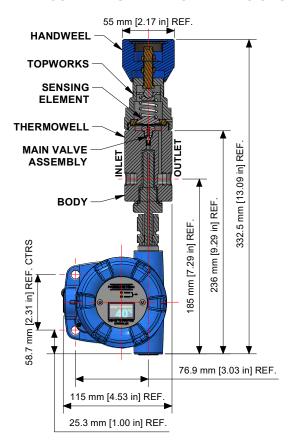
Max Inlet: 414 bar (6,000 psi)

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Cv 0.06

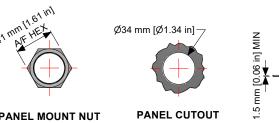
**PANEL** 

#### DRAWINGS AND INSTALLATION DIMENSIONS



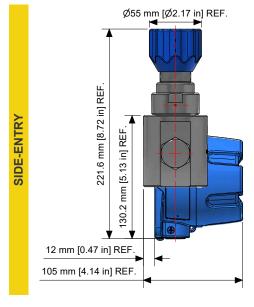
All gauge ports are 1/4" NPT as standard.

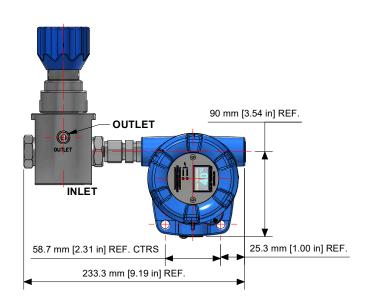
Dimensions shown for 1/4" NPT option and standard configurations only - please contact the office for other options.



**PANEL MOUNT NUT** (PT-C-024) STAINLESS STEEL







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

SINGLE-HEATED PRESSURE REGULATOR













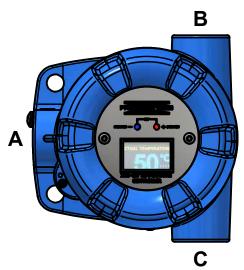


Max Inlet: 414 bar (6,000 psi)

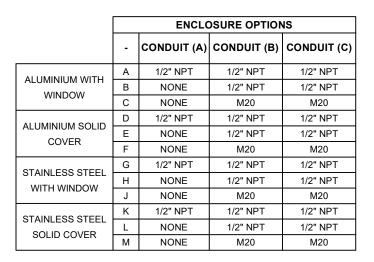
Max Outlet: 35 bar (510 psi)

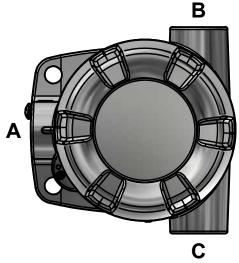
Cv 0.06

#### **ENCLOSURE OPTIONS**



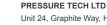
<b>ALUMINUM</b>	(WITH	WINDOW)
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(	





STAINLESS STEEL (SOLID COVER)





SINGLE-HEATED PRESSURE REGULATOR



● Gas ● Liquid

Diaphragm

Piston



Non-Venting

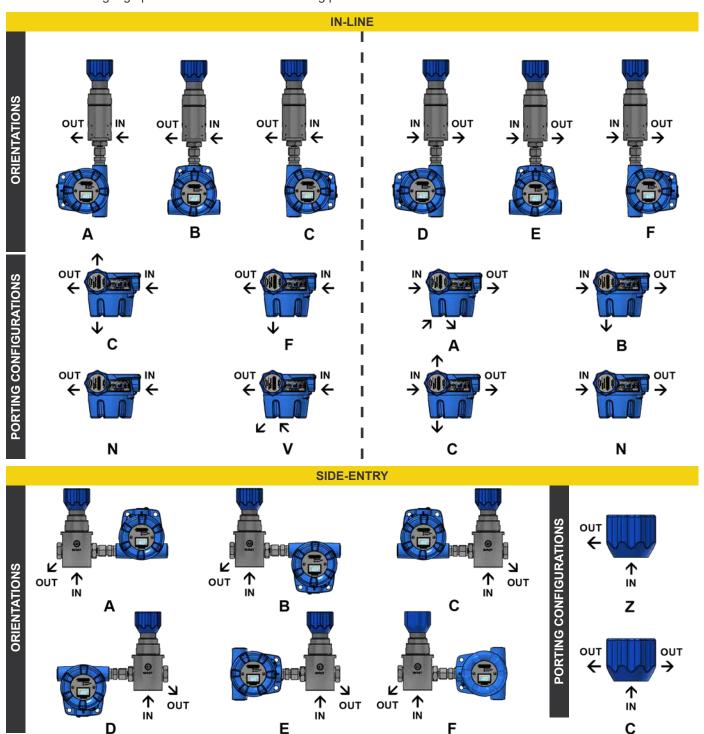
Max Inlet: 414 bar (6,000 psi)

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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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Diaphragm Piston





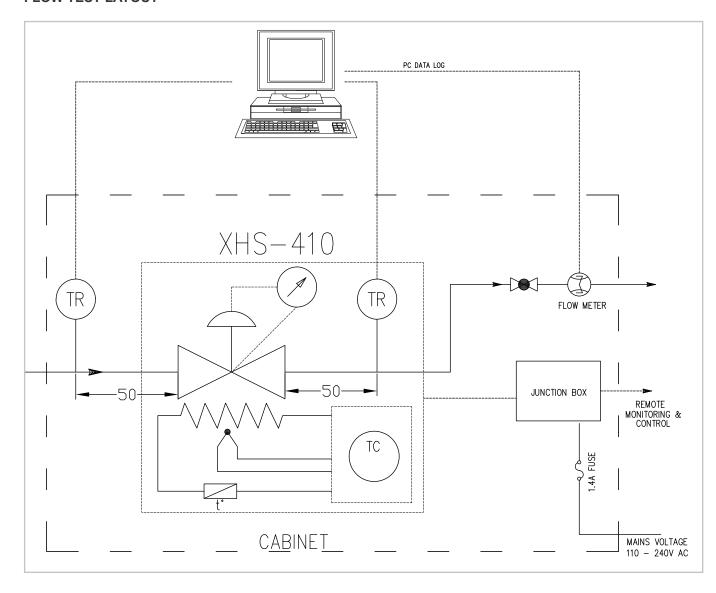


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Cv 0.06

### **FLOW TEST LAYOUT**











SINGLE-HEATED PRESSURE REGULATOR





● Gas Liquid





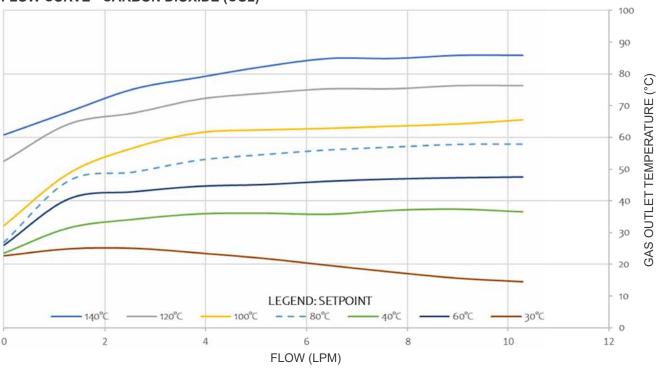
Non-Venting

Max Inlet: 414 bar (6,000 psi)

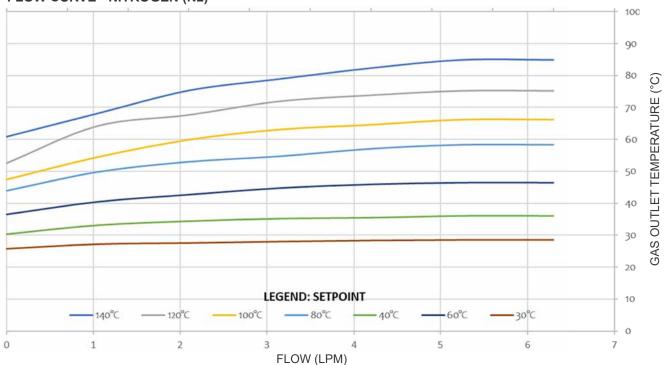
Max Outlet: 35 bar (510 psi)

Cv 0.06

#### FLOW CURVE - CARBON DIOXIDE (CO2)



#### FLOW CURVE - NITROGEN (N2)











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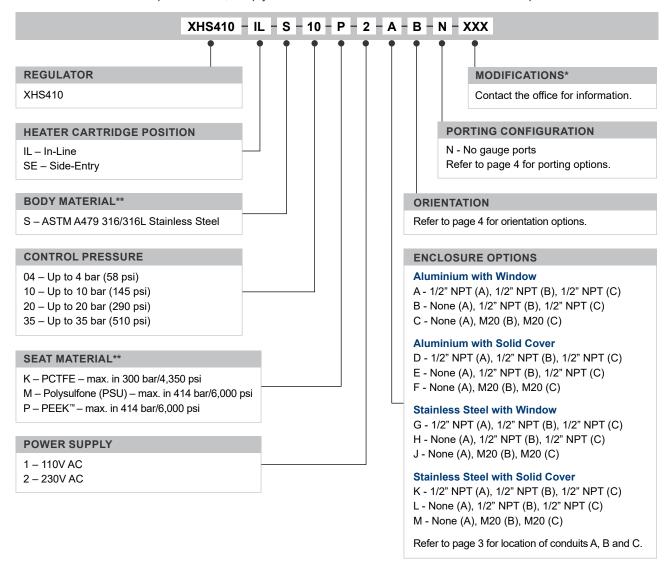
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#### ORDERING INFORMATION

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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#### PRESSURE TECH LTD