SINGLE-HEATEDPRESSUREREGULATOR





Diaphragm







Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06





#### **INTRODUCING THE XHS310...**

The XHS310 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 side-entry design can be used in applications where heat transfer is less critical, and where installations have height restrictions. The in-line design maximises the heat transfer area via a unique spiral machined heater sheath, which mixes the gas and ensures efficient heat transfer.

In addition, its electrical enclosure meets the requirements of IP66 and NEMA 4 specifications.

### **ATEX MARKING**

The marking on the equipment includes the following information:

Ex II 2 G

Ex d IIC Gb T3 Ta = -40°C to +55°C

### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)  Approx. Temperatures: -196°C to 538°C
Main Valve Pin	ASTM A479 316/316L Stainless Steel
Soft Seat	PEEK™ (450G)  Approx. Temperatures: -50°C to 204°C  PCTFE (Kel-F)  Approx. Temperatures: -196°C to 180°C
Valve Spring	Inconel® X750 (UNS N07750) Approx. Temperatures: -196°C to 700°C
Diaphragm	Inconel® X750
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Electric Enclosure	Feraloy Iron Alloy

For the full list of material temperature ranges, please visit www.pressure-tech.com.

Note: Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific temperature requirements.

### **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	4.8kg (10.6lbs)

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

### **FEATURES AND BENEFITS**

SIDE-ENTRY OR IN-LINE

> Choice of heater cartridge position caters for various application requirements.

100W HEATER CARTRIDGE

> Efficient heater to maintain sample gases in their vapour state.

ATEX / IECEX **CERTIFIED** 

> Certified for use in category 2 zone 1 hazardous areas.

INCONEL® X750 DIAPHRAGM

> For ultimate strength and reliability on clean or corrosive applications.

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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SINGLE-HEATEDPRESSUREREGULATOR





IN-LINE

SIDE-ENTRY

mm [7.83 in] REF.

199

48 mm [1.73] REF.

250



Diaphragm Piston





Non-Venting

Max Inlet: 414 bar (6,000 psi)

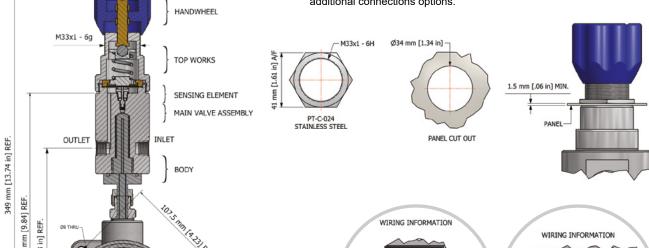
Max Outlet: 35 bar (510 psi)

Cv 0.06

### DRAWINGS AND INSTALLATION DIMENSIONS

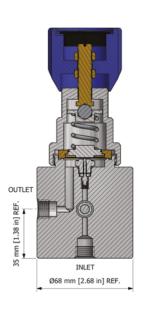
Ø55 mm [2.17 in] REF.

### All gauge ports are 1/4" NPT as standard Dimensions shown for 1/4" NPT option - please contact the office for additional connections options.

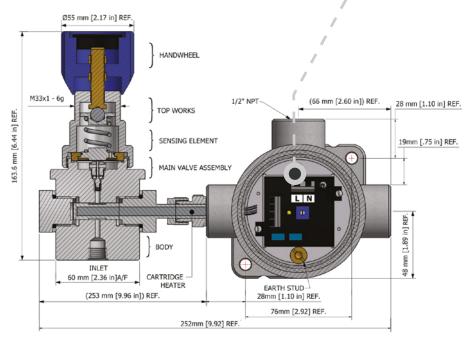


WIRING INFORMATION 1/2" NPT 66 mm [2.59] REF. 28mm [1.10in] REF. 38mm [1.49in] REF.





114 mm [4.49 in] REF.



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SINGLE-HEATEDPRESSUREREGULATOR



● Gas Liquid

Diaphragm





Non-Venting

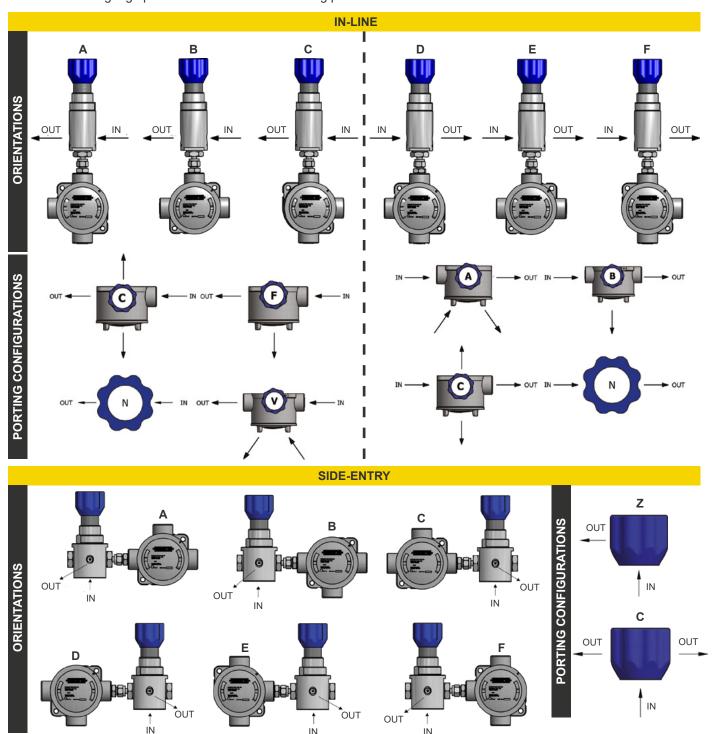
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 35 bar (510 psi)

Cv 0.06

### **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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SINGLE-HEATEDPRESSUREREGULATOR



• Gas Liquid

• Diaphragm • Piston





Non-Venting

Max Inlet: 414 bar (6,000 psi)

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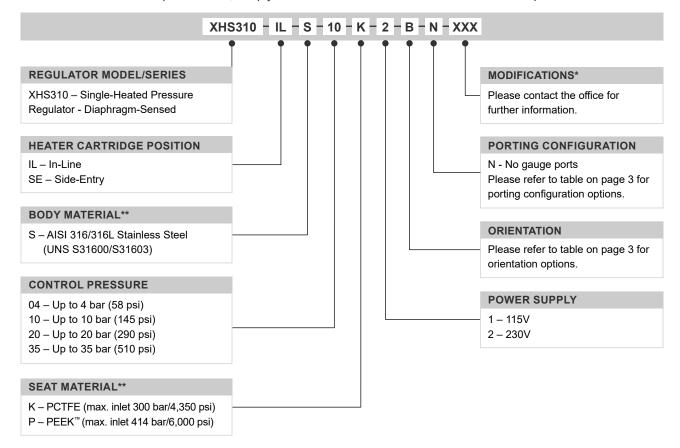
Cv 0.06

### **FLOW CURVE**

Please contact the office for further information.

### **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-LF310	Various options available
Panel Mounting Ring	PT-C-024	-

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

Inconel® is a registered trademark of Inco Alloys International

- Where applicable
- $^{\star\star}$  Other materials may be available please contact the office

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