

# HF250 Datasheet

## HIGH-FLOW PRESSURE REGULATOR



Gas    Liquid   |    Diaphragm    Piston   |    Self-Venting    Non-Venting   |   Max Inlet: 250 bar (3,625 psi)   |   Max Outlet: 10 bar (145 psi)   |   Cv 7.0



### INTRODUCING THE HF250...

The HF250 is a diaphragm-sensed high-flow pressure regulator for gas or liquid applications. The liquid version includes a PEEK™ seat, whilst the gas version features PCTFE seating.

It features a **balanced main valve** as standard for up to 250 bar (3,625 psi) inlet pressure. An **unbalanced** option can be offered alternatively for applications with maximum inlet pressures of up to 50 bar (725 psi).

With a Cv of 7.0, the HF250 is perfect for high-flow applications and is also available as a dome-loaded design with a 1:1 ratio.

### 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™ or PCTFE
Valve Spring	AISI 316 S42 Stainless Steel
Diaphragm	NBR or FKM / FPM
'O'-Ring Seals	NBR
Loading Spring	Spring Steel Alloy

### SPECIFICATION

Max. Inlet Pressure:	Balanced	Unbalanced
PEEK™	250 bar (3,625 psi)	50 bar (725 psi)
PCTFE	250 bar (3,625 psi)	50 bar (725 psi)

Outlet Ranges	Up to 10 bar (145 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	8kg (17.6lbs)

### FEATURES AND BENEFITS

<b>1</b> BALANCED MAIN VALVE DESIGN  Improved control across the pressure range.	<b>2</b> DIAPHRAGM SENSING ELEMENT  High sensitivity for accurate pressure regulation.	<b>3</b> HIGH FLOW COEFFICIENT  CV 7.0 for high-flow capabilities.	<b>4</b> SUITABLE FOR GAS OR LIQUID APPLICATIONS  Versatile usage across a range of media-types.
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**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

**PRESSURE TECH LTD**  
 Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH  
 T +44 (0)1457 899 307  
 E info@pressure-tech.com  
 W www.pressure-tech.com

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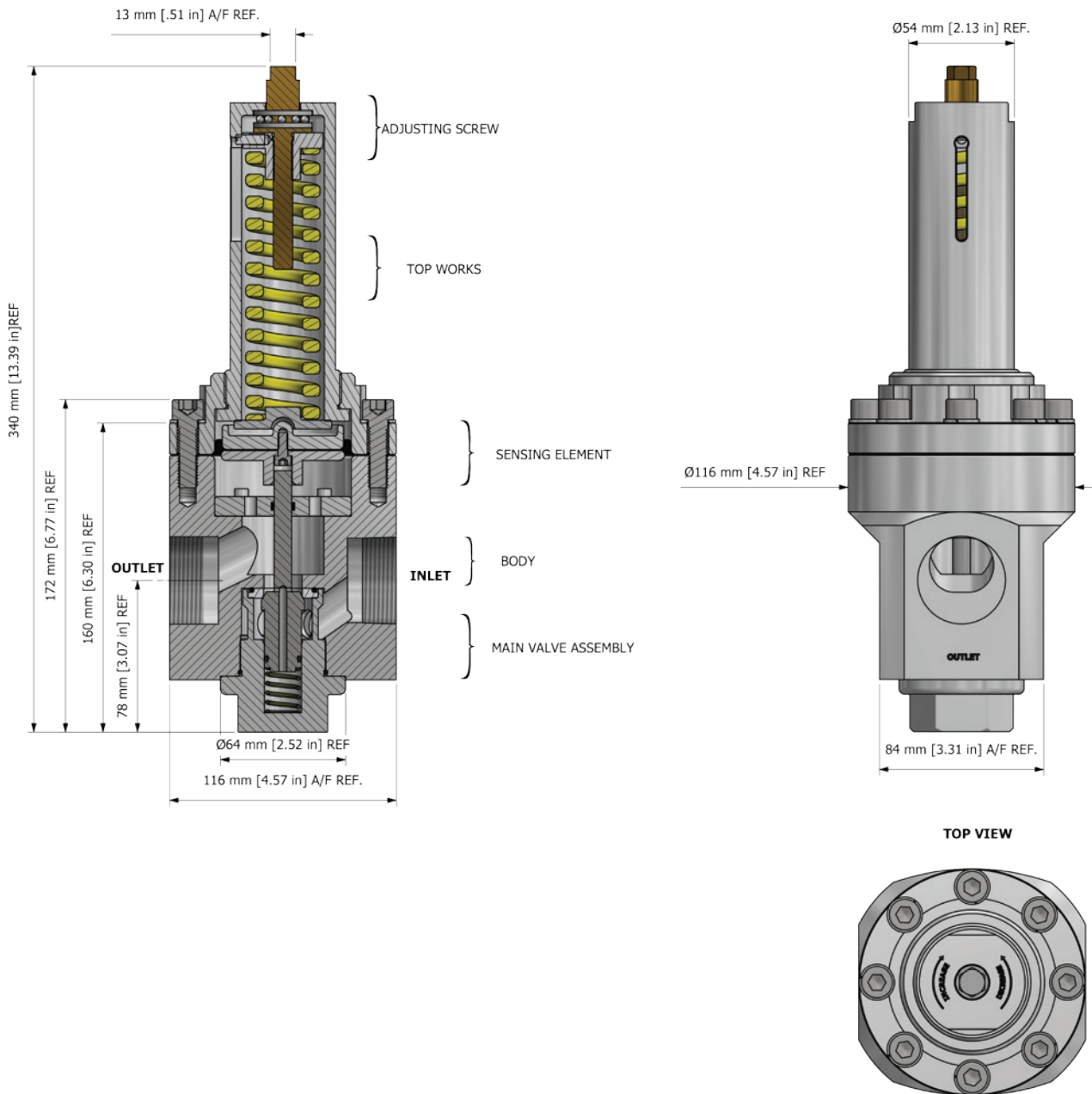
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## DRAWINGS AND INSTALLATION DIMENSIONS

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



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

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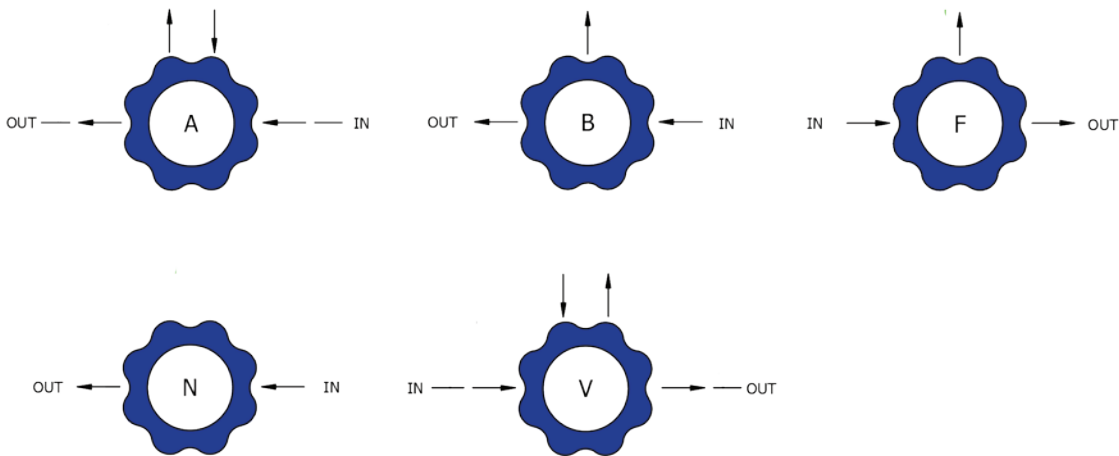


Gas  Liquid |  Diaphragm  Piston |  Self-Venting  Non-Venting | Max Inlet: 250 bar (3,625 psi) | Max Outlet: 10 bar (145 psi) | Cv 7.0

## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



### Notes:

- \* Additional porting configurations are available - please contact the office for further information.
- \* One gauge to be used with extension bar if mounted directly.

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E [info@pressure-tech.com](mailto:info@pressure-tech.com)  
W [www.pressure-tech.com](http://www.pressure-tech.com)

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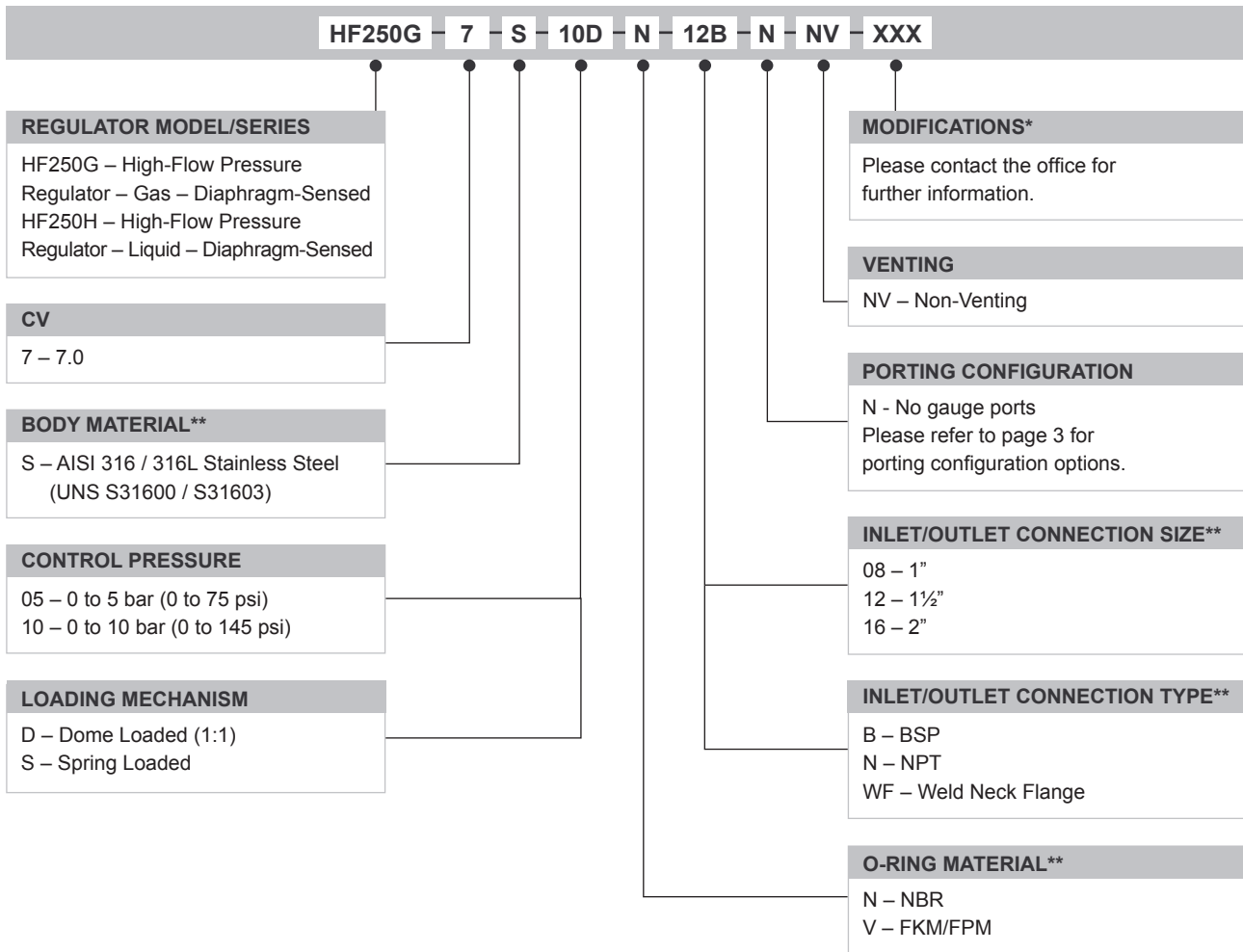
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### ORDERING INFORMATION

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



OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-HF250...	Various options available
Panel Mounting Ring	PT-C-024	-

*Note:*  
Ancillary Equipment and additional Service Kit options also available.

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

\* Where applicable

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

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