

HF251 Datasheet

HIGH-FLOW PRESSURE REGULATOR



Gas
 Liquid
 |
 Diaphragm
 Piston
 |
 Self-Venting
 Non-Venting
 |
 Max Inlet: 250 bar (3,625 psi)
 |
 Max Outlet: 200 bar (2,900 psi)
 |
 Cv 7.0



INTRODUCING THE HF251...

The HF251 is a piston-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 HF251 is perfect for high-flow applications.

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)
	PCTFE (Kel-F)
Valve Spring	ASTM A479 S42 Stainless Steel (UNS S43100)
Piston	ASTM A479 316/316L Stainless Steel
O-Rings	NBR N70 (Nitrile Buna N)
Loading Spring	Alloy Spring Steel

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 200 bar (2,900 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	8kg (17.6lbs)

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 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

2 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

3 HIGH FLOW COEFFICIENT

Cv 7.0 for high-flow capabilities.

4 SUITABLE FOR GAS OR LIQUID APPLICATIONS

Versatile usage across a range of media-types.

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
 +44 (0)1457 899 307 | sales@pressure-tech.com | www.pressure-tech.com

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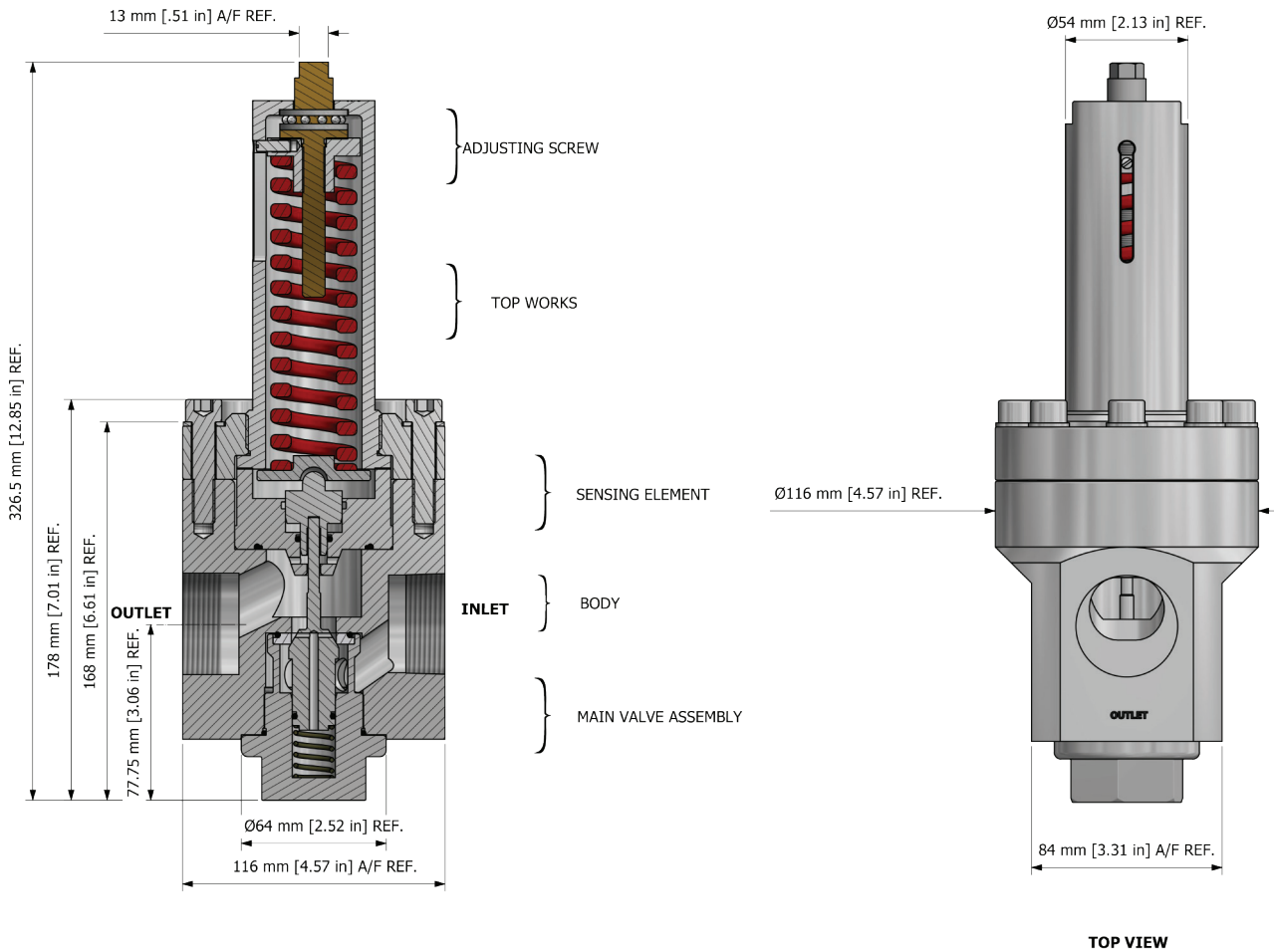
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1" 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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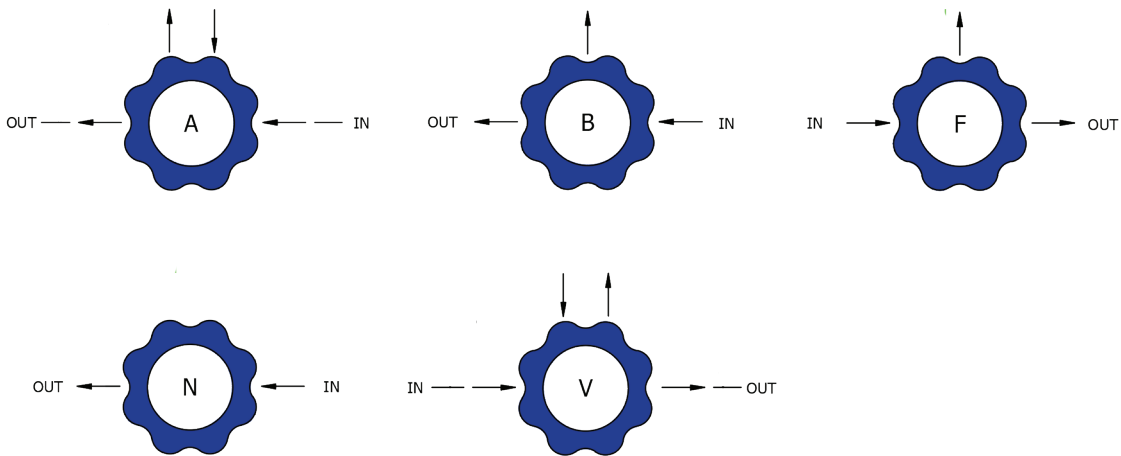


Gas Liquid | Diaphragm Piston | Self-Venting Non-Venting | Max Inlet: 250 bar (3,625 psi) | Max Outlet: 200 bar (2,900 psi) | Cv 7.0

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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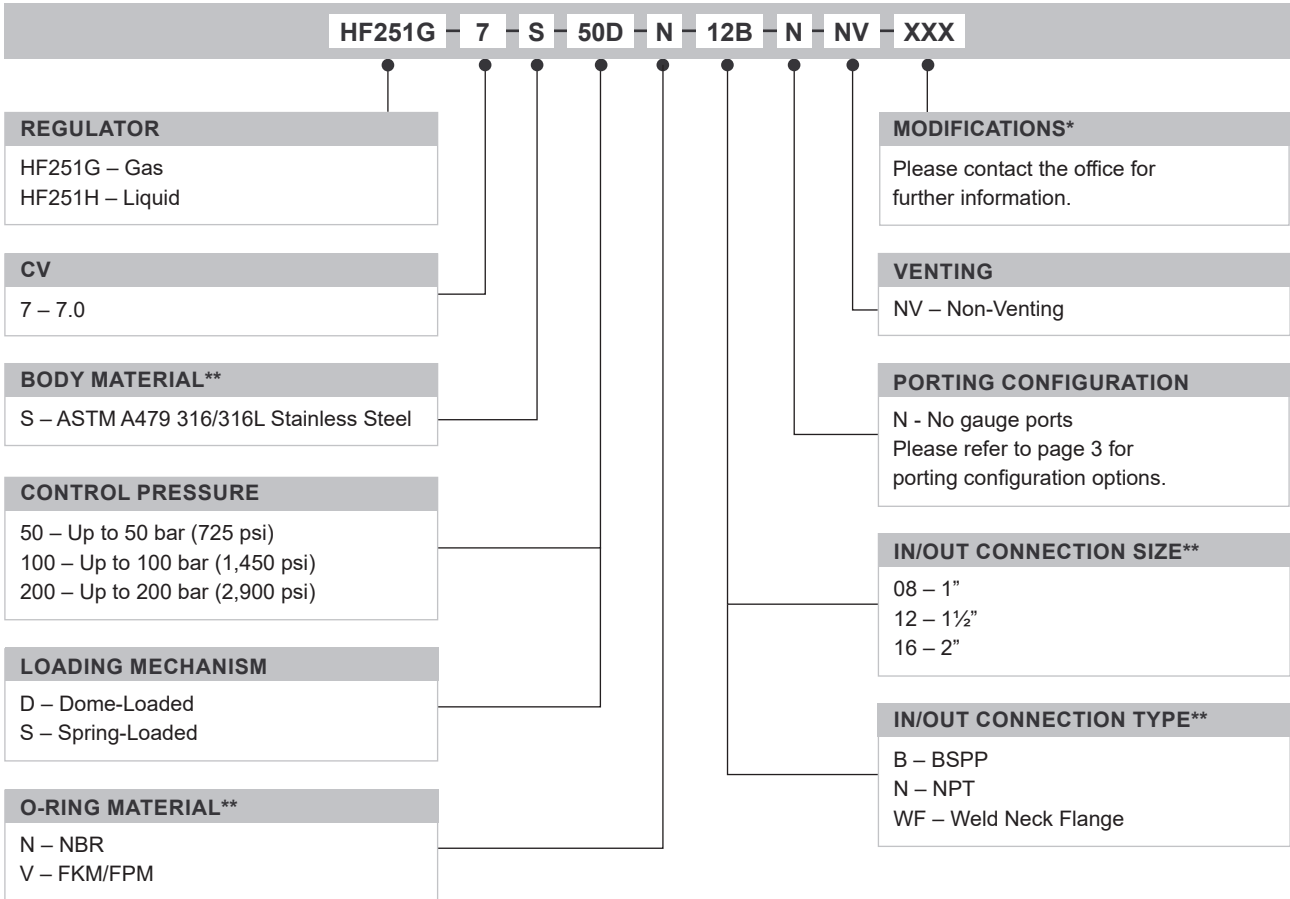
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ORDERING INFORMATION

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



OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-HF251...	Various options available

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

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

* Where applicable

** Other connections/materials may be available

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