HIGH-FLOW PRESSURE REGULATOR

















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.

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)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Dady and Danat	AISI 316 / 316L Stainless Steel
Body and Bonnet	(UNS S31600 / S31603)
Main Valve Pin	AISI 316 / 316L Stainless Steel
Main valve Pin	(UNS S31600 / S31603)
Soft Seat	PEEK™ or PCTFE
Valve Spring	AISI 316 S42 Stainless Steel
Piston	AISI 316 / 316L Stainless Steel
	(UNS S31600 / S31603)
'O'-Ring Seals	NBR
Loading Spring	Alloy Spring Steel

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)

FEATURES AND BENEFITS

BALANCED MAIN VALVE DESIGN

> Improved control across the pressure range.

PISTON SENSING 2 ELEMENT

> Perfect for use in challenging conditions.

HIGH FLOW COEFFICIENT

> CV 7.0 for high-flow capabilities.

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





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HIGH-FLOW PRESSURE REGULATOR





DiaphragmPiston





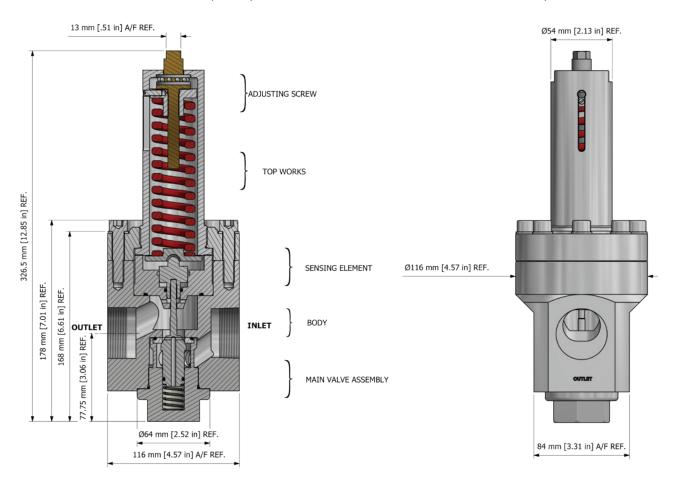
Max Inlet: 250 bar (3,625 psi)

Max Outlet: 200 bar (2,900 psi)

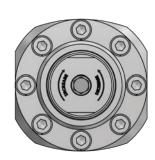
Cv 7.0

DRAWINGS AND INSTALLATION DIMENSIONS

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



TOP VIEW



Note:

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

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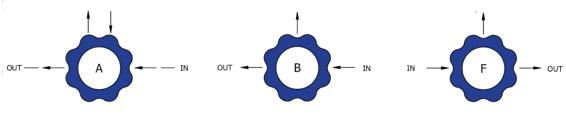
Max Outlet: 200 bar (2,900 psi)

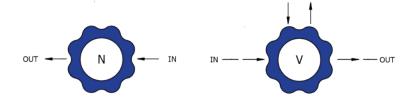
Cv 7.0

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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HIGH-FLOW PRESSURE REGULATOR





• Gas • Liquid









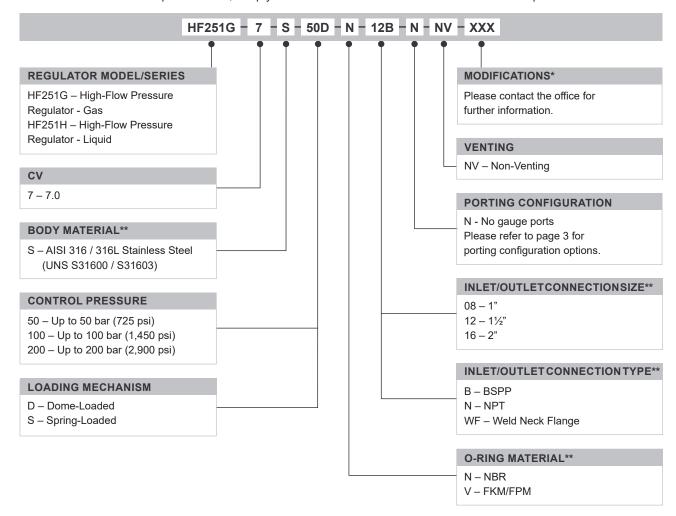
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Cv 7.0

ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-HF251	Various options available	

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

- * Where applicable
- ** Other materials may be available please contact the office

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