HIGH-FLOW PRESSURE REGULATOR





• Gas • Liquid

DiaphragmPiston





Non-Venting

Max Inlet: 300 bar (4,350 psi)

Max Outlet: 10 bar (145 psi)

Cv 4.0



#### **INTRODUCING THE HF300...**

The HF300 is a non-venting diaphragm-sensed high-flow pressure regulator for gas or liquid applications with a balanced main valve design as standard. The liquid version includes a Vespel® seat, whilst the gas version features PEEK™ seating. The HF300 provides stable control with a high level of accuracy under varying inlet pressures.

An unbalanced option can be offered alternatively for applications with maximum inlet pressures of up to 50 bar (725 psi).

### **SPECIFICATION**

Max. Rated Inlet Pressure	300 bar (4,350 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	9.7kg (21.4lbs)

#### 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	Vespel <sup>®</sup>
	PEEK™ (450G)
Valve Spring	Inconel® X750
Diaphragm	NBR N70 (Nitrile Buna N)
	FKM/FPM (Viton)
O-Rings	FKM/FPM (Viton)
Loading Spring	High Grade Alloy Spring Steel

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**

**ELASTOMERIC** DIAPHRAGM

> Provides accurate pressure regulation.

**BALANCED MAIN** VALVE DESIGN

> Improved control across the pressure range.

HIGH FLOW COEFFICIENT

> CV 4.0 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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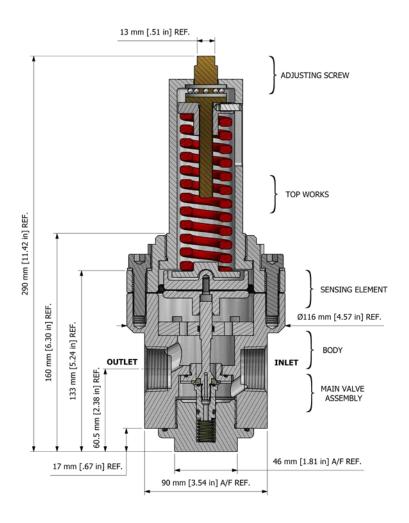
Max Inlet: 300 bar (4,350 psi)

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Cv 4.0

## **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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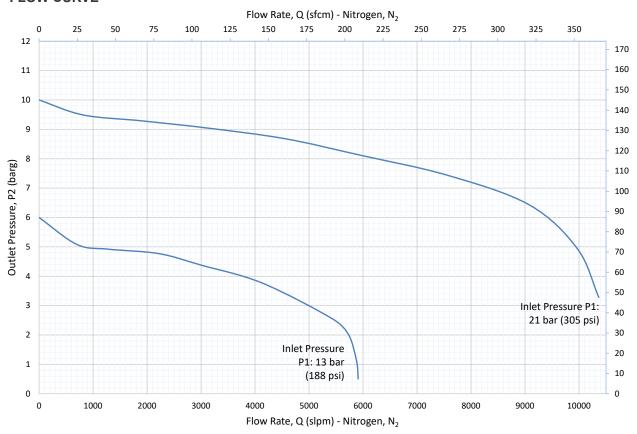
Max Inlet: 300 bar (4,350 psi)

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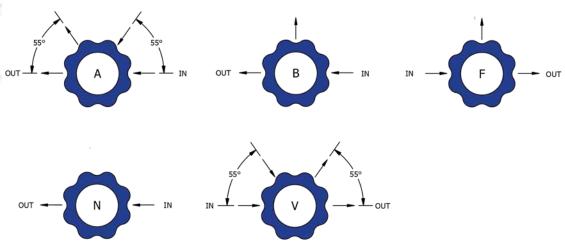
Cv 4.0

Outlet Pressure, P2 (psig)

### **FLOW CURVE**



## **PORTING CONFIGURATIONS**



Notes:

Additional porting configurations are available - please contact the office for further information.

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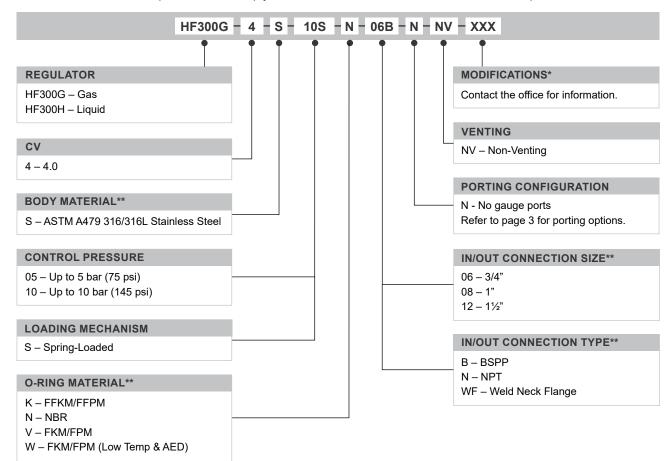
Max Inlet: 300 bar (4,350 psi)

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Cv 4.0

## **ORDERING INFORMATION**

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



OPTIONAL EXTR	RAS	
	PART NUMBER	DESCRIPTION
Service Kit	SRK-HF300	Various options available
Note: Ancillary Equipme	ent and additional Service Kit օր	otions also available.

TRADEMARKS: Inconel® is a registered trademark of Inco Alloys International

PEEK™ is a trademark of Victrex PLC Vespel® is a registered trademark of DuPont

- \* Where applicable
- \*\* Other connections/materials may be available

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