

# HF300 Datasheet

## HIGH-FLOW PRESSURE REGULATOR



Gas    Liquid   |    Diaphragm    Piston   |    Self-Venting    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. The liquid version includes a VespeI® seat, whilst the gas version features PEEK™ seating.

With a balanced main valve design it can provide stable control with a high level of accuracy under varying inlet pressures. Its high flow coefficient ensures the HF300 can also cope with higher flow rates.

### 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	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Main Valve Pin	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Soft Seat	VespeI® or PEEK™
Valve Spring	Inconel® X750
Diaphragm	NBR / FPM
'O'-Ring Seals	FKM / FPM
Loading Spring	High Grade Alloy Spring Steel

### FEATURES AND BENEFITS

<b>1</b> ELASTOMERIC DIAPHRAGM	<b>2</b> BALANCED MAIN VALVE DESIGN	<b>3</b> HIGH FLOW COEFFICIENT	<b>4</b> SUITABLE FOR GAS OR LIQUID APPLICATIONS
Provides accurate pressure regulation.	Improved control across the pressure range.	CV 4.0 for high-flow capabilities.	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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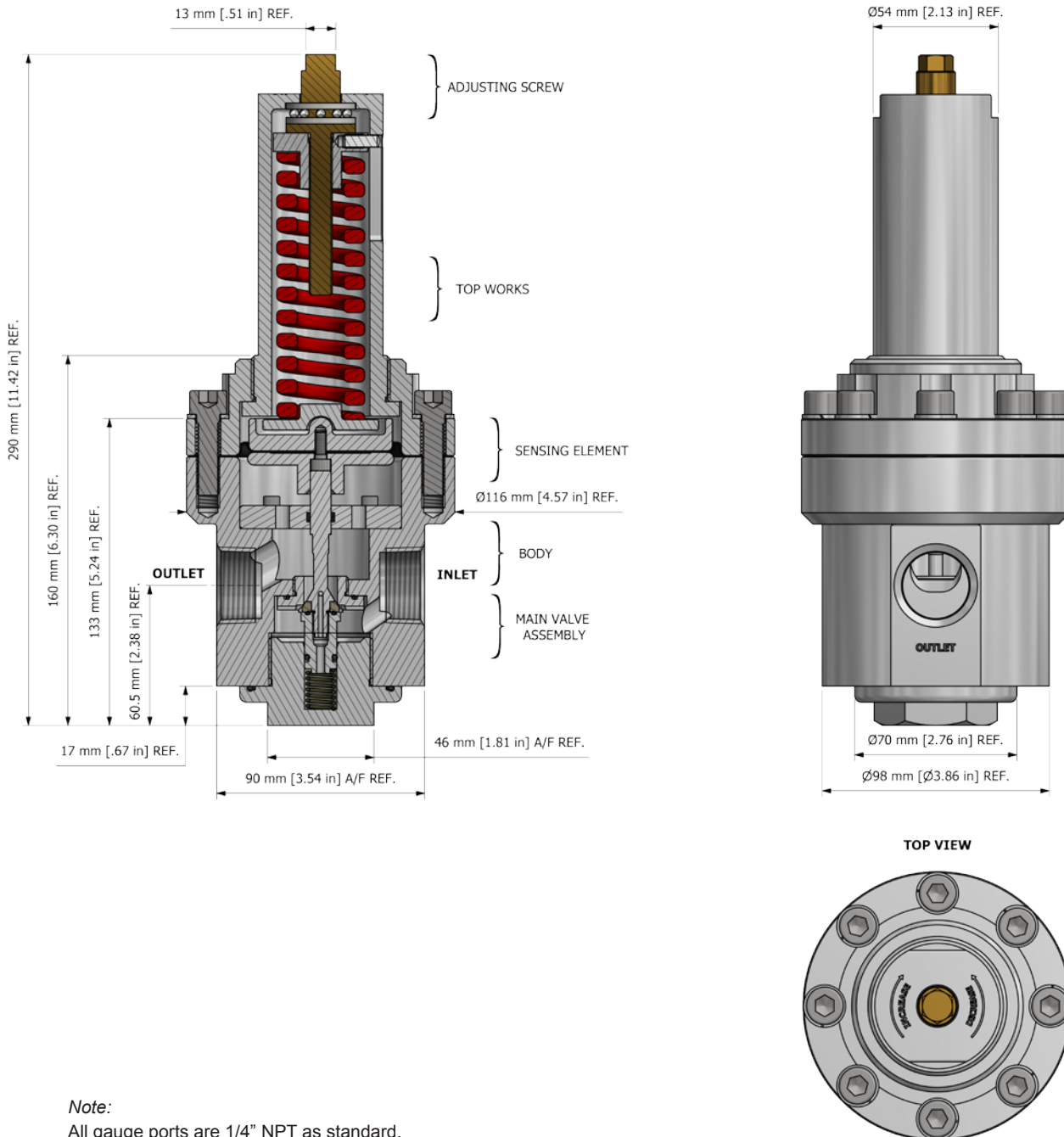
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## DRAWINGS AND INSTALLATION DIMENSIONS

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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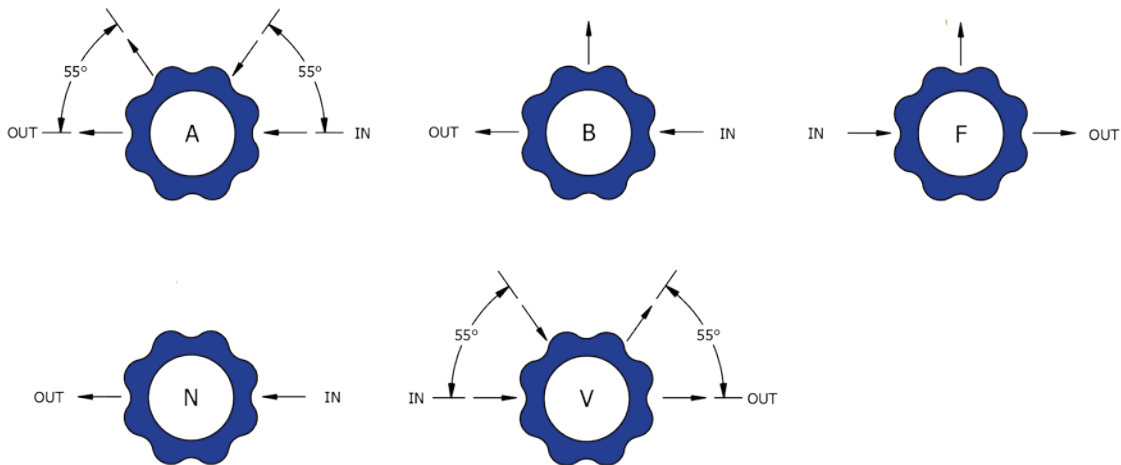


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## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



### Notes:

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

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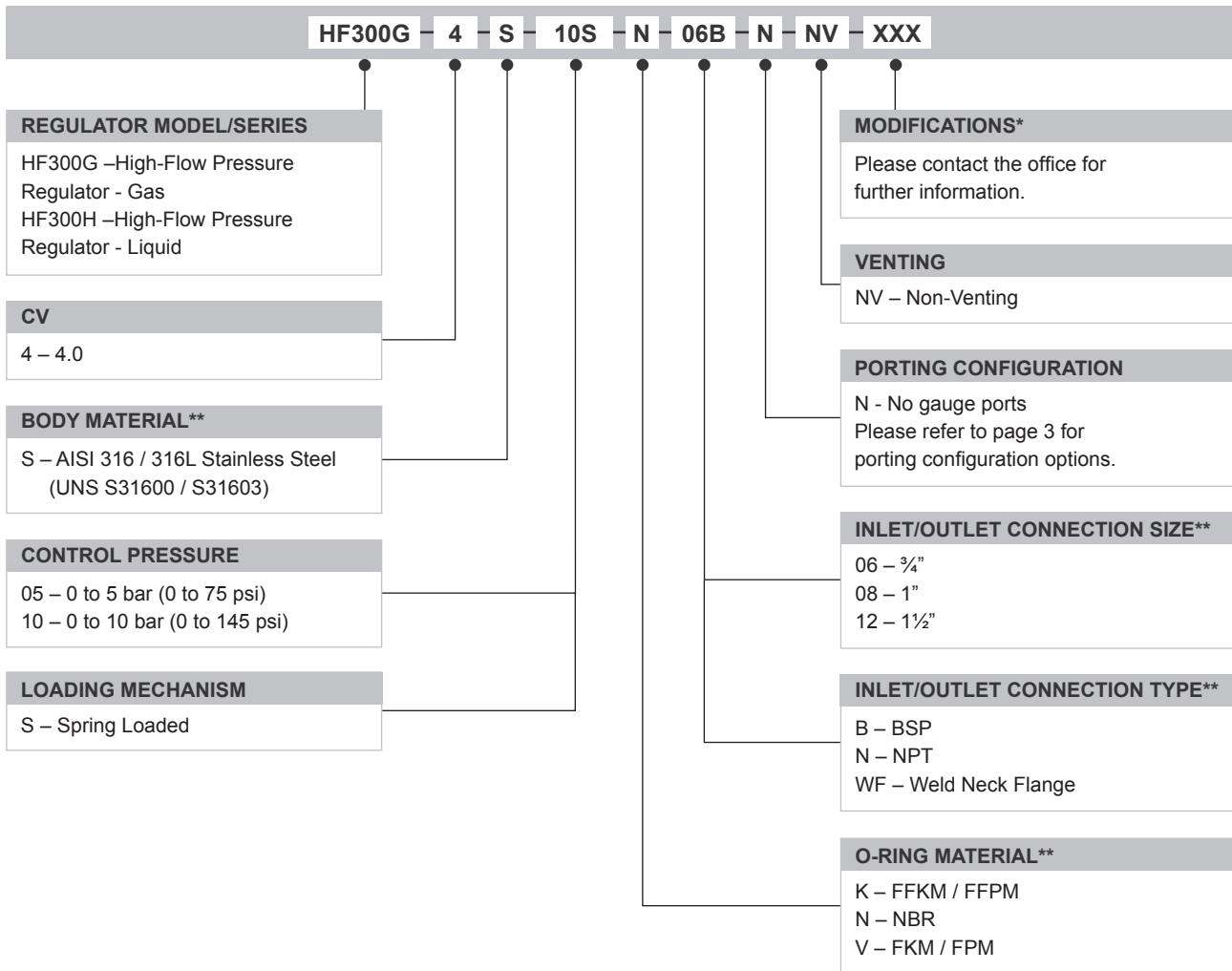
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### ORDERING INFORMATION

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



OPTIONAL EXTRAS		
	PART NUMBER	DESCRIPTION
Service Kit	SRK-HF300...	Various options available

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

**TRADEMARKS:** Inconel® is a registered trademark of Inco Alloys International  
PEEK™ is a trademark of Victrex PLC  
Vespe® is a registered trademark of DuPont

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

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