HF301 Datasheet

HIGH-FLOW PRESSURE REGULATOR

PRESSURE TECH

Gas | Liquid | Diaphragm | Piston | Self-Venting | Non-Venting | Max Inlet: 300 bar (4,350 psi) | Max Outlet: 300 bar (4,350 psi) | Cv 4.0

INTRODUCING THE HF-301...

The HF301 is a non-venting piston-sensed high-flow pressure regulator for gas or liquid applications with a balanced main valve design. The liquid version includes a Vespel® 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 HF301 can also cope with higher flow rates.

SPECIFICATION

Max. Rated Inlet Pressure	300 bar (4,350 psi)
Outlet Ranges	Up to 300 bar (4,350 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	Vespel® or PEEK™
Valve Spring	Inconel® X750
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
'O'-Ring Seals	FKM / FPM
Loading Spring	High Grade Alloy Spring Steel

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

3 HIGH FLOW COEFFICIENT

CV 4.0 for high-flow capabilities.

4 SUITABLE FOR GAS OR LIQUID APPLICATIONS

Versatile usage across a range of media-types.

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
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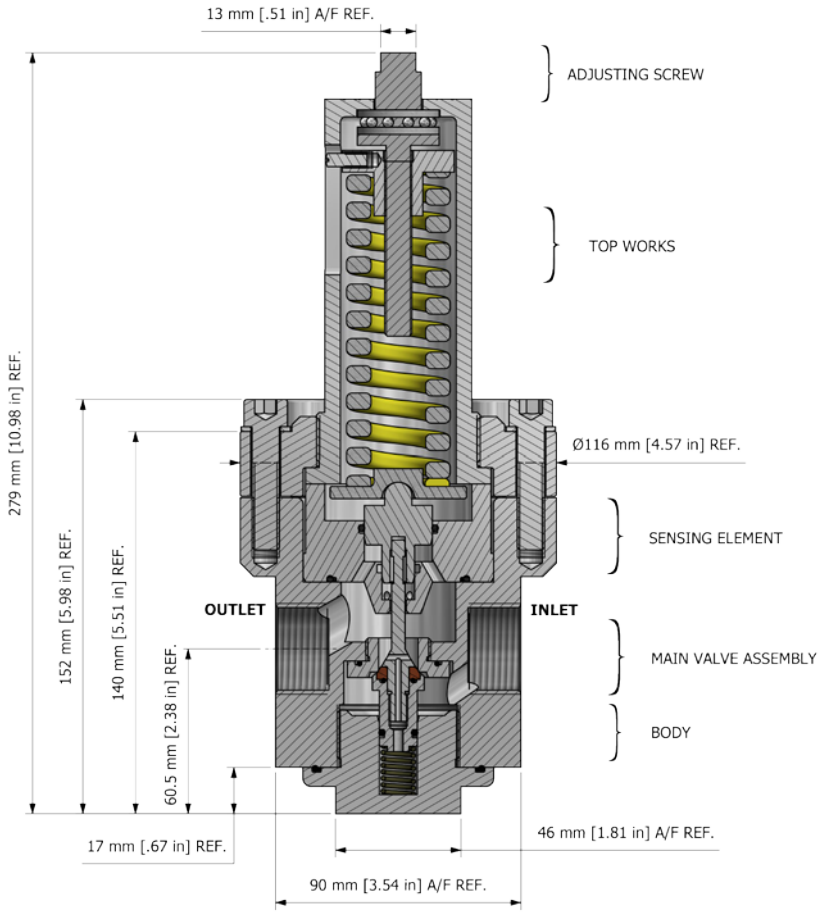
DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1” BSP 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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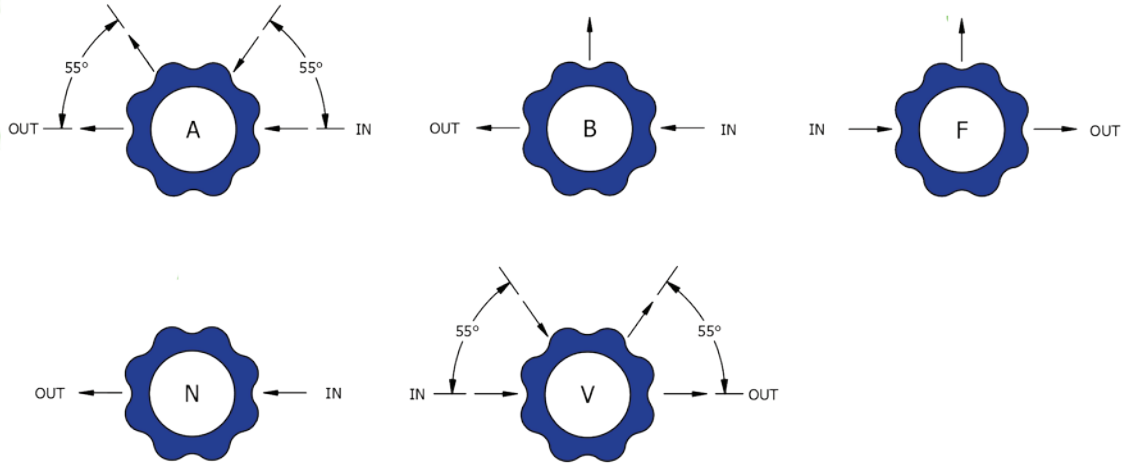
FLOW CURVE

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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ORDERING INFORMATION

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

HF301G – 4 – S – 50S — N – 06B – N – NV – XXX

REGULATOR MODEL/SERIES

HF301G –High-Flow Pressure Regulator - Gas
HF301H –High-Flow Pressure Regulator - Liquid

CV

4 – 4.0

BODY MATERIAL**

S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)

CONTROL PRESSURE

50 – 0 to 50 bar (0 to 725 psi)
100 – 0 to 100 bar (0 to 1,450 psi)
200 – 0 to 200 bar (0 to 2,900 psi)
250 – 0 to 250 bar (0 to 3,625 psi)
300 – 0 to 300 bar (0 to 4,350 psi)

LOADING MECHANISM

S – Spring Loaded

MODIFICATIONS*

Please contact the office for further information.

VENTING

NV – Non-Venting

PORTING CONFIGURATION

N - No gauge ports
Please refer to page 3 for porting configuration options.

INLET/OUTLET CONNECTION SIZE**

06 – ¾”
08 – 1”
12 – 1½”

INLET/OUTLET CONNECTION TYPE**

B – BSP
N – NPT
WF – Weld Neck Flange

O-RING MATERIAL**

K – FFKM / FFPM
N – NBR
V – FKM/FPM

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-HF301...	Various options available

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

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

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