HIGH-FLOW PRESSURE REGULATOR















Max Inlet: 300 bar (4,350 psi)

Max Outlet: 300 bar (4,350 psi)

Cv 4.0



INTRODUCING THE HF301...

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. The HF301 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 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 | ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) |
| Main Valve Pin | ASTM A479 316/316L Stainless Steel |
| Soft Seat | Vespel [®] |
| | PEEK™ (450G) |
| Valve Spring | Inconel® X750 |
| Piston | ASTM A479 316/316L Stainless Steel |
| 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

PISTON SENSING 1 ELEMENT

> Perfect for use in challenging conditions.

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





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

HIGH-FLOW PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston



Non-Venting

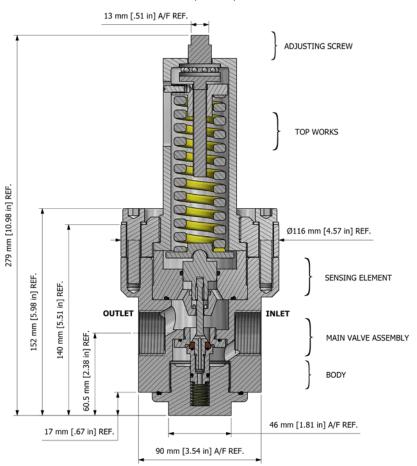
Max Inlet: 300 bar (4,350 psi)

Max Outlet: 300 bar (4,350 psi)

Cv 4.0

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.

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

HIGH-FLOW PRESSURE REGULATOR













Max Inlet: 300 bar (4,350 psi)

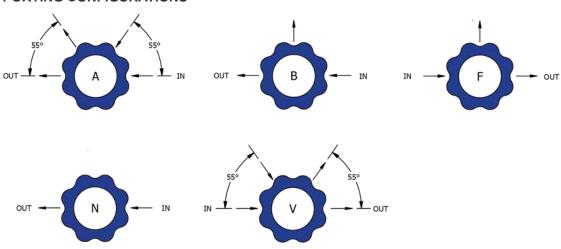
Max Outlet: 300 bar (4,350 psi)

Cv 4.0

FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Notes:

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

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.







HIGH-FLOW PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

Self-Venting Non-Venting

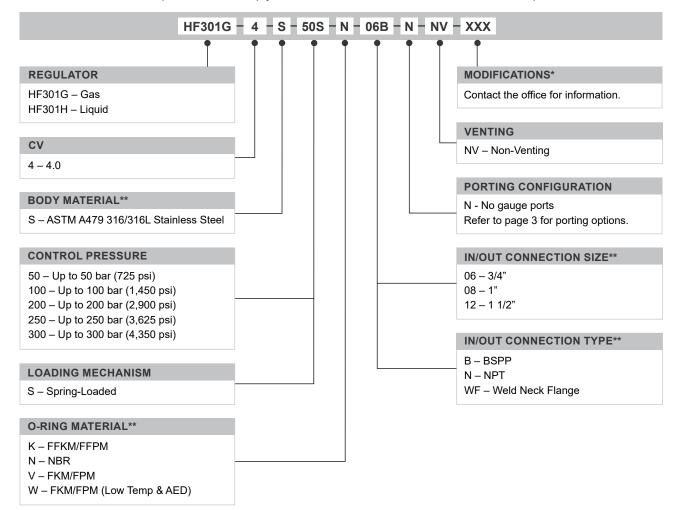
Max Inlet: 300 bar (4,350 psi)

Max Outlet: 300 bar (4,350 psi)

Cv 4.0

ORDERING INFORMATION

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



| | DADT NUMBER | DECORPTION | |
|-------------|-------------|---------------------------|--|
| | PART NUMBER | DESCRIPTION | |
| Service Kit | SRK-HF301 | Various options 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

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