BACK PRESSURE REGULATOR

















Max Rating: 150 bar (2,175 psi)

Control Range: 150 bar (2,175 psi)

Cv 0.1



INTRODUCING THE BP301...

The BP301 is a piston-sensed back pressure regulator for accurate back pressure control on both gas (PCTFE seat) and liquid applications. It is available with flanged connections, perfect for systems that do not accept other options.

With a lightweight and compact design, in addition to a lower Cv of 0.1, the BP301 can control pressures of up to 150 bar (2,175 psi). Alternatively, with a higher Cv of 0.5, it can control up to 35 bar (510 psi).

SPECIFICATION

Max. Rating	150 bar (2,175 psi)
Control Range	Up to 150 bar (2,175 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	0.9kg (2lbs)

Pressure regulator rating may be limited by connection type, Cv and/or seat material

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Pody and Ponnet	AISI 316/316L Stainless Steel
Body and Bonnet	(UNS S31600/S31603)
Main Valve Pin	AISI 316/316L Stainless Steel
Main valve Fill	(UNS S31600/S31603)
Soft Seat	PEEK™ or PCTFE
Distan	AISI 316/316L Stainless Steel
Piston	(UNS S31600/S31603)
Handwheel	Nylon
O-Rings	FKM/FPM
Loading Spring	AISI 302 Stainless Steel (UNS S30200)

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

SUITABLE FOR GAS OR LIQUID **APPLICATIONS**

> Versatile usage across a range of media-types.

CHOICE OF LOW FLOW COEFFICIENTS

> Accurate control of process media with a CV of 0.02, 0.1 or 0.5.

LIGHTWEIGHT & COMPACT DESIGN

> Perfect for when installation space is restricted.

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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BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston



Non-Venting

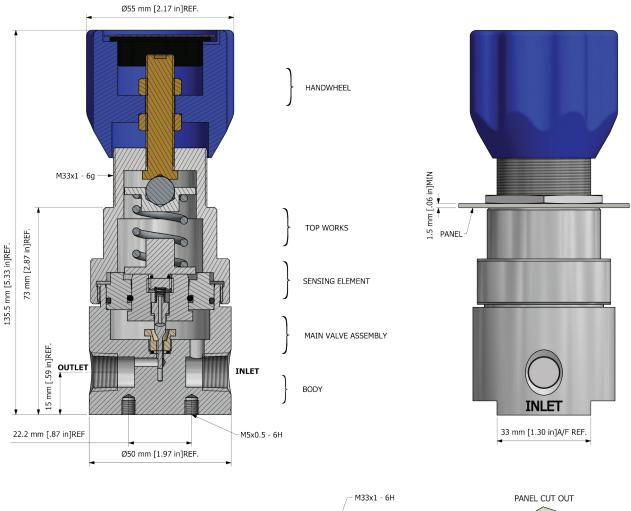
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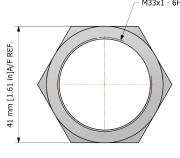
Control Range: 150 bar (2,175 psi)

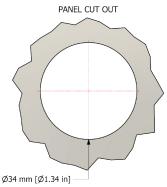
Cv 0.1

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT option - please contact the office for additional connections options.







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

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BACK PRESSURE REGULATOR



● Gas ● Liquid

DiaphragmPiston

Self-Venting

Non-Venting

Max Rating: 150 bar (2,175 psi)

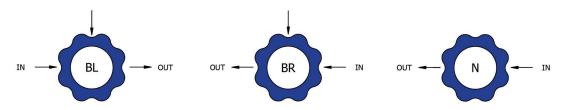
Control Range: 150 bar (2,175 psi)

Cv 0.1

FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note:

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

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BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston



Non-Venting

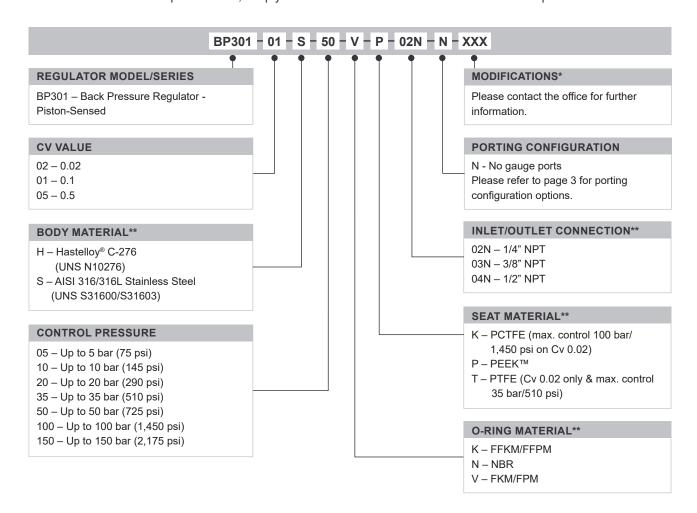
Max Rating: 150 bar (2,175 psi)

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Cv 0.1

ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-BP301	Various options available	
Panel Mounting Ring	PT-C-024	Stainless Steel panel mount ring	

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

Hastelloy® is a registered trademark of Haynes International, Inc.

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

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