BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston



Non-Venting

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 a popular choice for our electrolyser customers who rely on accurate and reliable pressure regulation to enhance the efficiency and life span of the electrolyser.

With a lower Cv of 0.1, the BP301 controls pressures of up to 150 bar (2,175 psi) or with a Cv of 0.5 it controls up to 50 bar (725 psi). Flanged connections available.

#### **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)

## 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	PEEK™ (450G)
Soil Seal	PCTFE (Kel-F)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	FKM/FPM (Viton)
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100)

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.

SUITABLE FOR **ELECTROLYSER APPLICATIONS** 

> Pressure regulation is crucial to the efficiency and life span of the electrolyser.

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.





PRESSURE TECH LTD

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BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston



Non-Venting

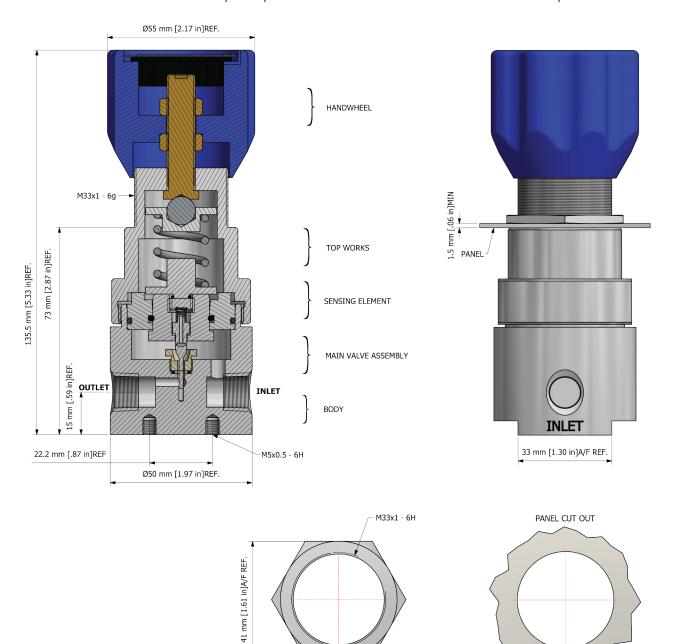
Max Rating: 150 bar (2,175 psi)

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#### **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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Ø34 mm [Ø1.34 in]





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**BACK PRESSURE REGULATOR** 



● Gas ● Liquid

DiaphragmPiston

Self-Venting

Non-Venting

Max Rating: 150 bar (2,175 psi)

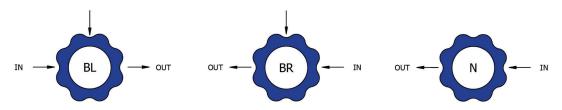
Control Range: 150 bar (2,175 psi)

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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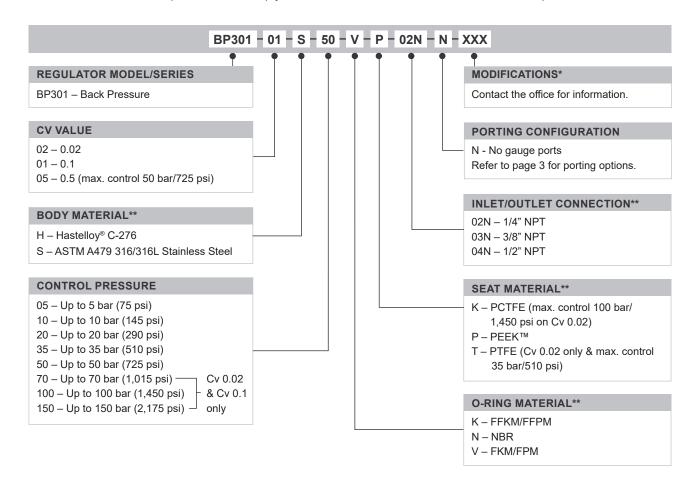
Max Rating: 150 bar (2,175 psi)

Control Range: 150 bar (2,175 psi)

Cv 0.1

#### ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION	
ervice 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

Hastellov® is a registered trademark of Havnes International, Inc.

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

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