

BACK PRESSURE REGULATOR



• Gas	• Liquid	Diaphragm	• Piston	Self- Venting	 Non- Venting 	Max Rating: 150 bar (2,175 psi)	Control Range: 150 bar (2,175 psi)	Cv 0.1
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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)
Soli 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.

1 PISTON SENSING ELEMENT	2 SUITABLE FOR ELECTROLYSER APPLICATIONS	3 CHOICE OF LOW FLOW COEFFICIENTS	4 LIGHTWEIGHT & COMPACT DESIGN
Perfect for use in challenging conditions.	Pressure regulation is crucial to the efficiency and life span of the	Accurate control of process media with a CV of 0.02, 0.1 or 0.5.	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.

FEATURES AND BENEFITS

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electrolyser.

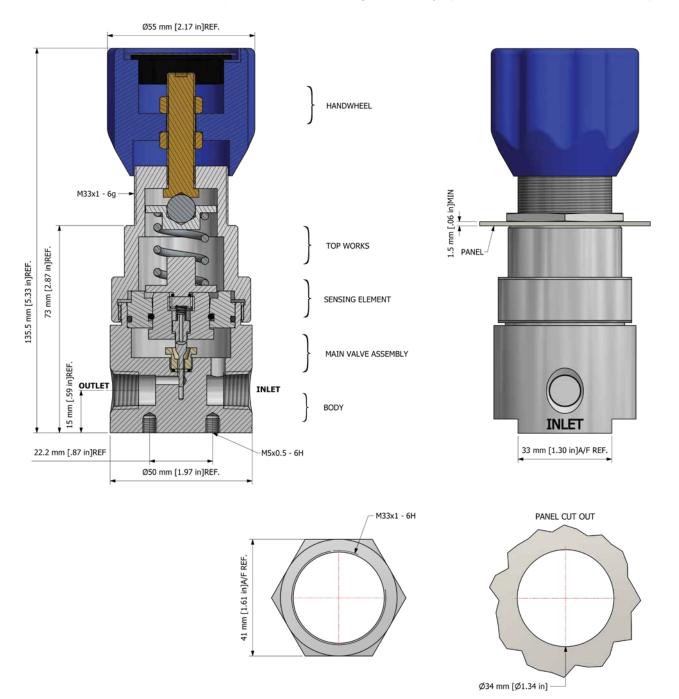
Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH +44 (0)1457 899 307 | <u>sales@pressure-tech.com</u> | <u>www.pressure-tech.com</u> **DESIGNED, MANUFACTURED AND BUILT IN THE UK** © 2025 Pressure Tech Ltd. All Rights Reserved.





DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT option and standard configurations only - please contact the office for other options.



Note:

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

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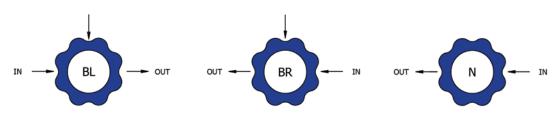




FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note:

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

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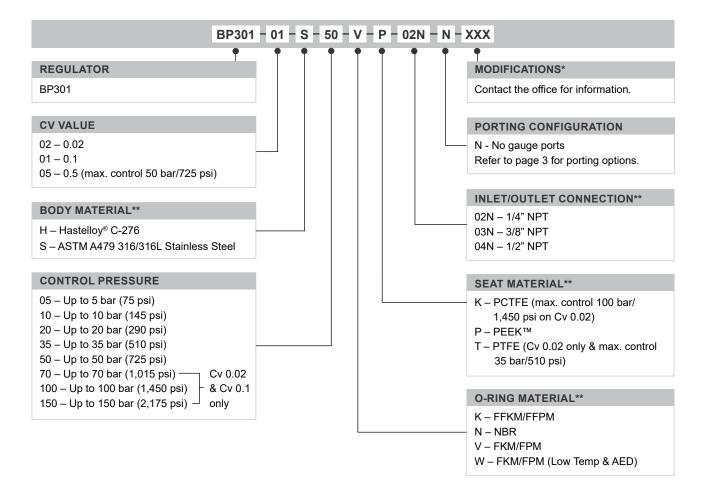
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ORDERING INFORMATION

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



	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 Hastellov[®] is a registered trademark of Havnes International. Inc * Where applicable ** Other connections/materials may be available

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