

BP301 Datasheet

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



INTRODUCING THE BP301...

The BP301 is a piston-sensed back pressure regulator for accurate back pressure control on both gas (PTFE 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 (UNS S31600/S31603)
Soft Seat	PEEK™ (450G) PTFE (Kel-F)
Piston	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
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

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 SUITABLE FOR ELECTROLYSER APPLICATIONS

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

3 CHOICE OF LOW FLOW COEFFICIENTS

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

4 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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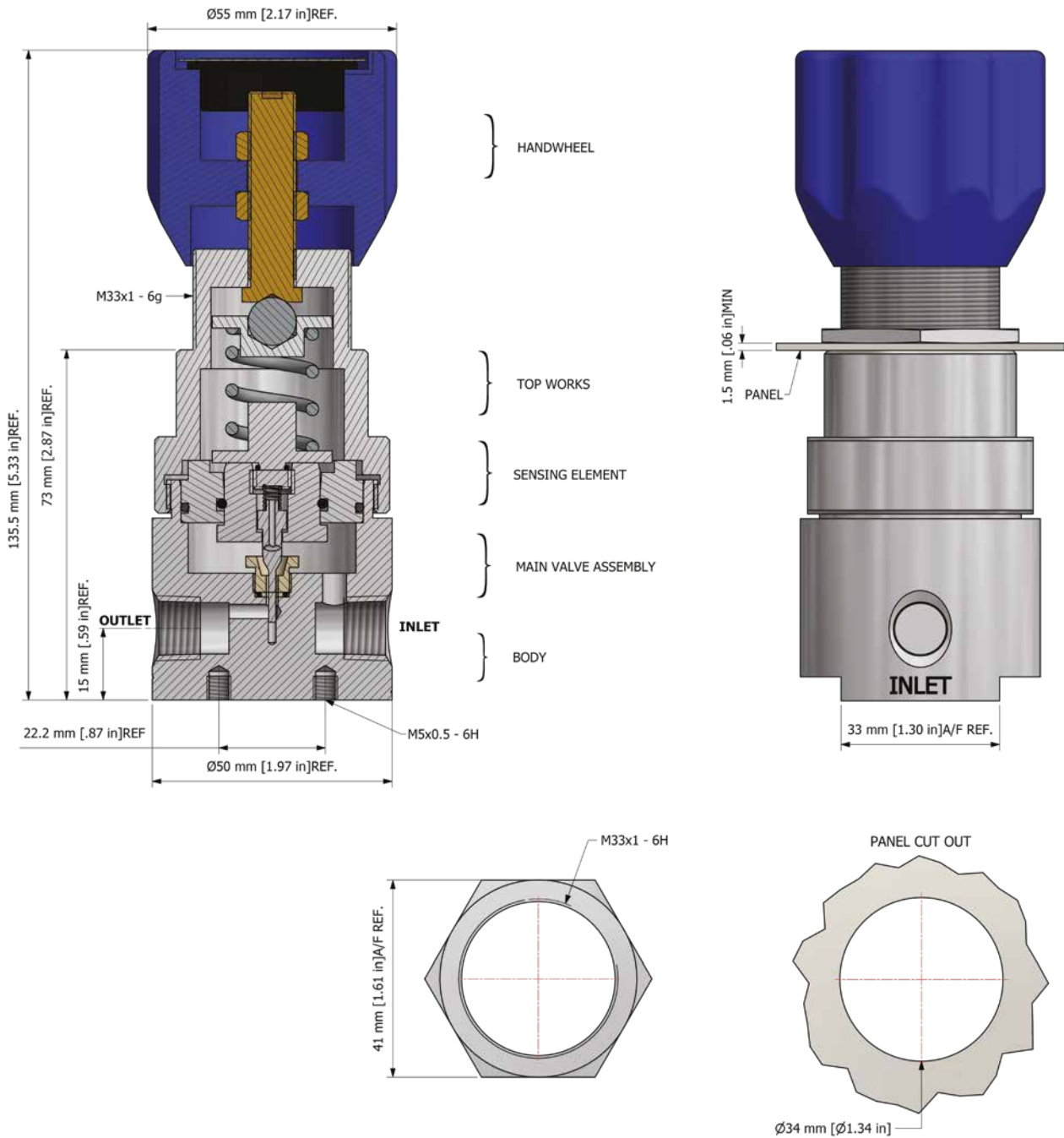
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DRAWINGS AND INSTALLATION DIMENSIONS

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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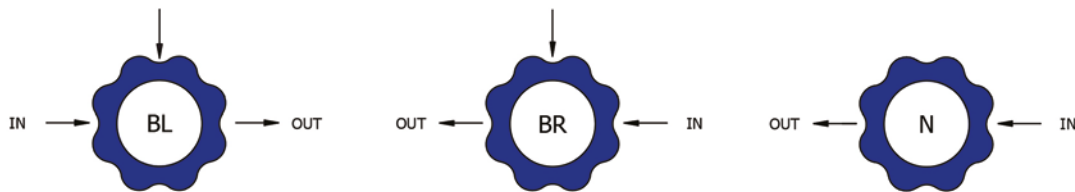


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FLOW CURVE

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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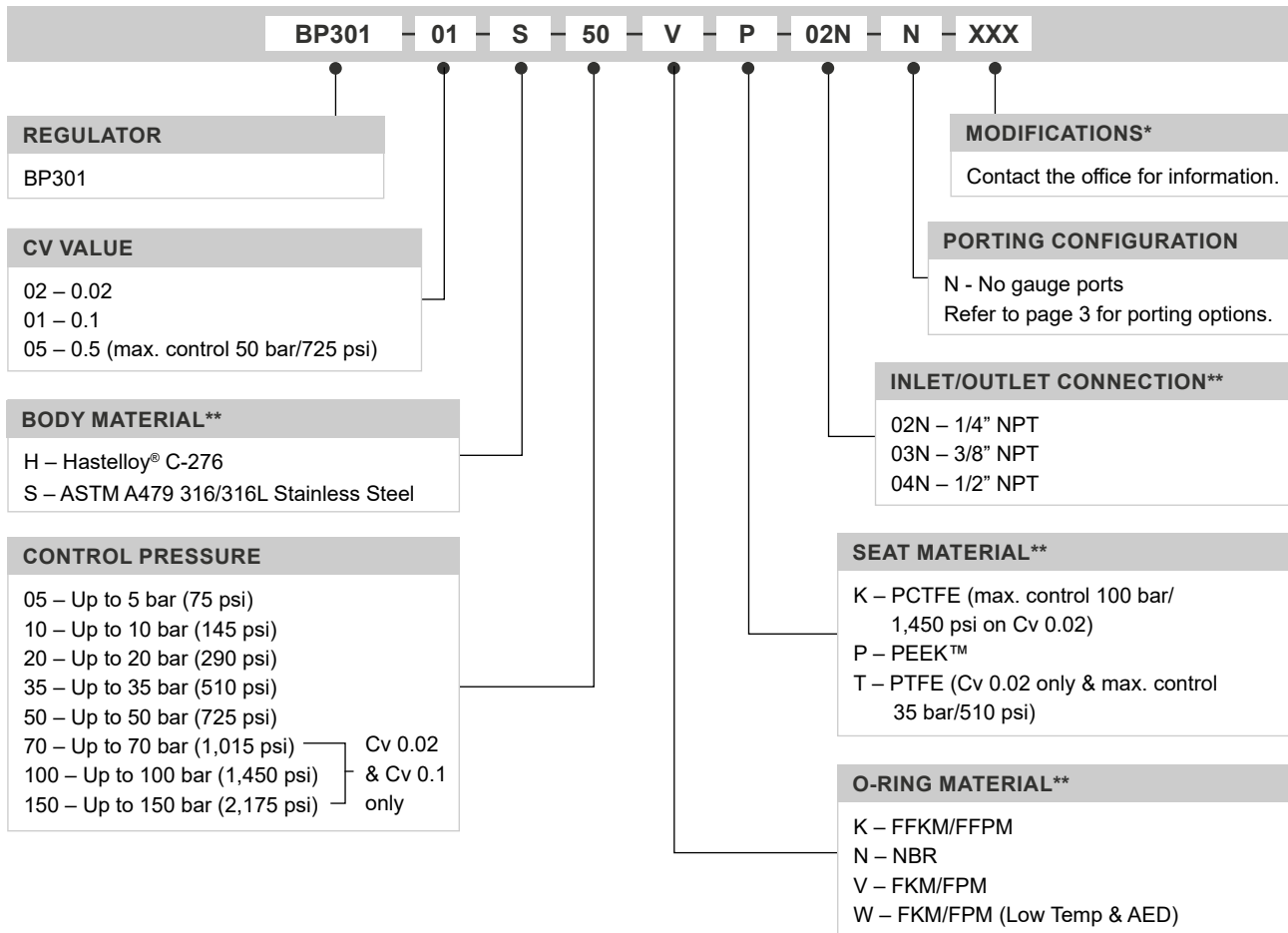
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

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

Note: Ancillary equipment also available

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

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