LOW-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

Diaphragm
Piston

Max Rating: 414 bar (6,000 psi)

Max Inlet Control: 414 bar (6,000 psi)

Cv 0.1



#### INTRODUCING THE BP-LF540...

The BP-LF540 is a compact piston-sensed low-flow back pressure regulator for gas or liquid applications, making it a versatile regulator across a range of medias. With a low flow coefficient of 0.1, it offers highly accurate back pressure control.

The BP-LF540 is available in an air-actuated design, making it perfect for semi or fully automated systems.

#### **SPECIFICATION**

Max. Rating	414 bar (6,000 psi)
Max. Inlet Control	Up to 414 bar (6,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	2.1kg (4.6lbs)

#### 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)
Valve Spring	Elgiloy® (UNS R30003)
Handwheel	Nylon
Piston	ASTM A479 316/316L Stainless Steel
O. Diame	NBR N70 (Nitrile Buna N)
O-Rings	FKM/FPM (Viton)
Loading Spring	Silicon Chrome Wire

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.

SUITABLE FOR **GAS OR LIQUID APPLICATIONS** 

> Versatile use across a range of media types.

LOW FLOW COEFFICIENT

> CV 0.1 for accurate control of process media.

OPTIONAL AIR-**ACTUATED DESIGN** 

> For fine remote adjustment.

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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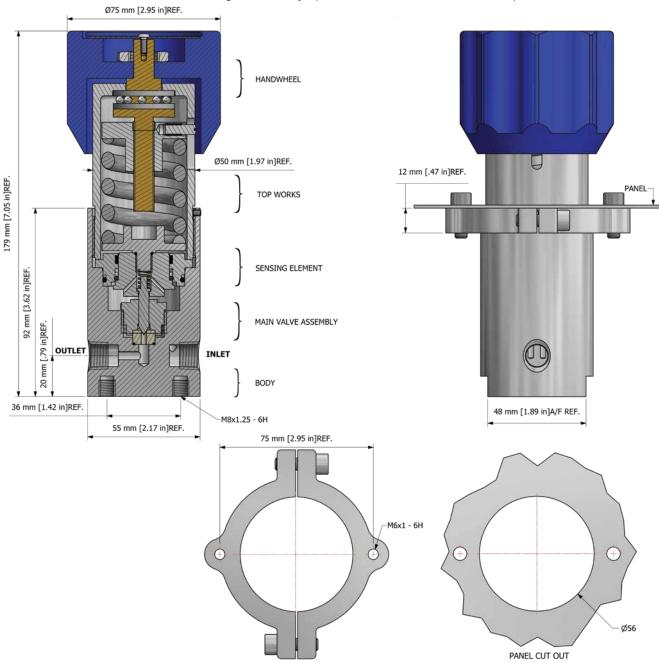
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## **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for standard configurations only - please contact the office for other options.



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

PT-C-061-005-RING (STAINLESS STEEL) PT-C-061-005-001-RING (ALUMINIUM) PANEL MOUNT RING

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PRESSURE TECH LTD

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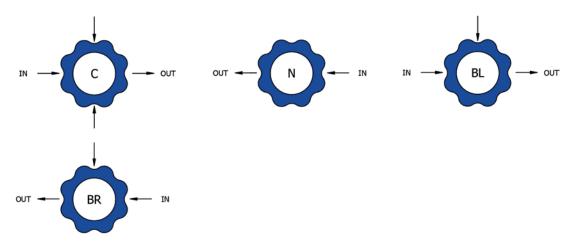
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Cv 0.1

## **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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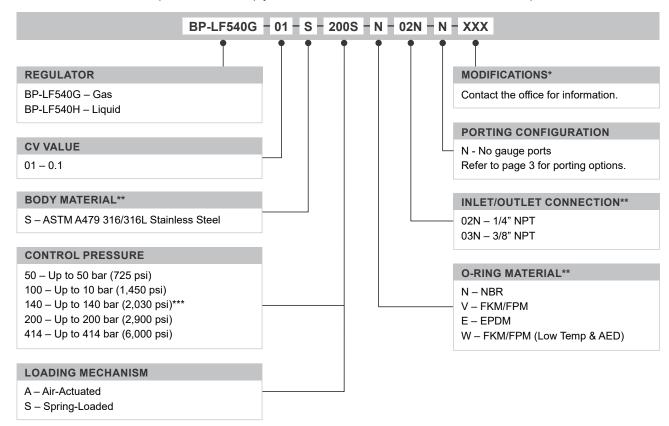
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Cv 0.1

## **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-BP-LF540	Various options available
Panel Mounting Ring	PT-C-061-005-RING	Stainless Steel panel mount ring
Panel Mounting Ring	PT-C-061-005-001-RING	Aluminium panel mount ring

TRADEMARK: PEEK™ is a trademark of Victrex PLC

Elgiloy® is a registered trademark of Elgiloy Specialty Metals

- Where applicable
- \*\* Other connections/materials may be available
- \*\*\* Air-loaded only
- \*\*\*\* Increased supply pressure

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