

BP-LF690 Datasheet

LOW-FLOW BACK PRESSURE REGULATOR



Gas
 Liquid
 Diaphragm
 Piston
 Max Rating: 550 bar (7,975 psi)
 Control Range: 414 bar (6,000 psi)
 Cv 0.1



INTRODUCING THE BP-LF690...

The BP-LF690 is a piston-sensed low-flow back pressure regulator for gas or liquid applications. The gas version includes a thermoplastic seat, whilst the liquid version features metal-to-metal seating. In addition to Stainless Steel, it is available in a range of materials including Titanium, Vespel® and Hastelloy®.

The BP-LF690 accurately controls inlet pressure and vents excess pressure back via the threaded 1/2" NPT/BSPP or 9/16" MP outlet port.

SPECIFICATION

Max. Rating	550 bar (7,975 psi)
Control Range	Up to 414 bar (6,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	2.9kg (6.4lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600 / S31603)
Main Valve Pin	Inconel® 718 (UNS N07718)
Seat	PEEK™ (450G)
	ASTM A479 316/316L Stainless Steel
Valve Spring	Elgiloy® (UNS R30003)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N)
	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 RANGE OF SEAT MATERIALS

Covers a wide range of applications.

3 OPTIONAL AIR ACTUATOR

Fine remote adjustment.

4 LOW CV (0.02)

Accurate control of process media.

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

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

+44 (0)1457 899 307 | sales@pressure-tech.com | www.pressure-tech.com

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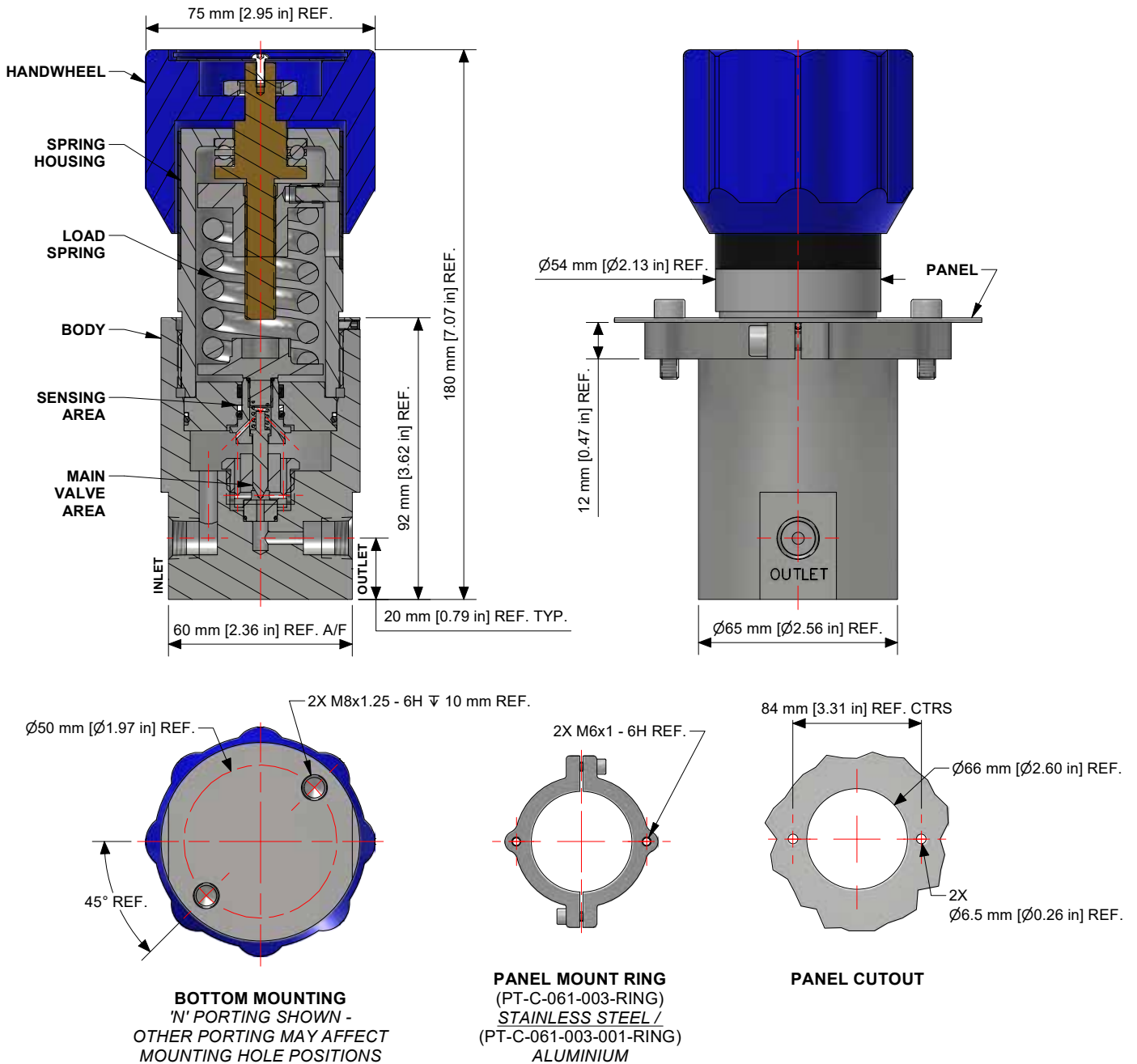
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DRAWINGS AND INSTALLATION DIMENSIONS

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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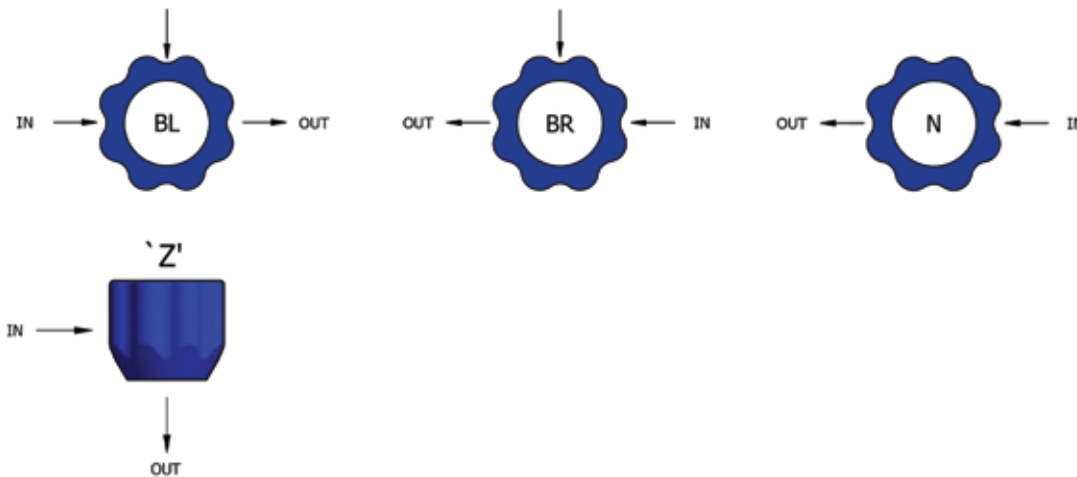


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FLOW CURVE

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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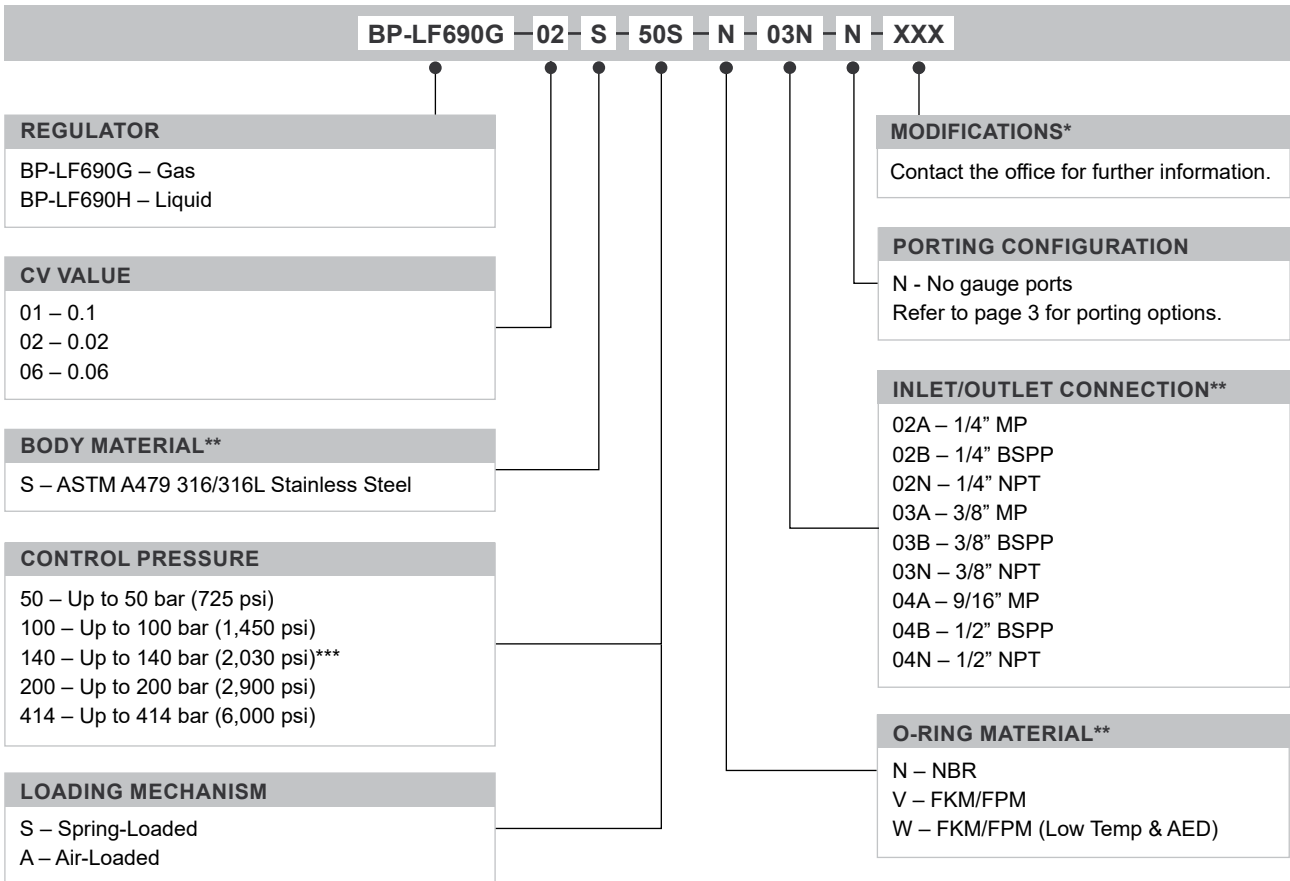
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-BP-LF690...	Various options available
Panel Mounting Ring	PT-C-061-003-RING	Stainless Steel panel mount ring
Panel Mounting Ring	PT-C-061-003-001-RING	Aluminium panel mount ring

Note: Ancillary equipment also available

TRADEMARK: Hastelloy® is a registered trademark of Haynes International, Inc
 Inconel® is a registered trademark of Inco Alloys International
 PEEK™ is a trademark of Victrex PLC
 Phynox® is a registered trademark of Imphy UGINE Precision
 Vespel® is a registered trademark of DuPont

* Where applicable
 ** Other materials/connections may be available
 *** Air-loaded only

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