LOW-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

Diaphragm • Piston

Max Rating: 1,034 bar (15,000 psi)

Control Range: 900 bar (13,050 psi)

Cv 0.1



INTRODUCING THE BP-LF691...

The BP-LF691 is a piston-sensed low-flow back pressure regulator for gas or liquid applications. As standard, the gas version includes a PEEK[™] seat, whilst the liquid version features 316SS seating. Alternatively, other seats are available to suit your application including Titanium, Vespel® and Hastelloy®.

The BP-LF691 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	1,034 bar (15,000 psi)
Control Range	Up to 900 bar (13,050 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	2.9kg (6.4lbs)

Note: Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure requirements.

FEATURES AND BENEFITS

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -196°C to 538°C
body and bonnet	ASTM 17-4 Stainless Steel (UNS S17400) Approx. Temperatures: -29°C to 350°C
Main Valve Pin	Inconel [®] 718 (UNS N07718) Approx. Temperatures: -196°C to 425°C
Seat	PEEK [™] (450G) Approx. Temperatures: -50°C to 204°C
	ASTM A479 316/316L Stainless Steel
Valve Spring	Phynox [®] (R30003)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O Pinge	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100) Approx. Temperatures: -29°C to 370°C

For the full list of material temperature ranges, please visit www.pressure-tech.com.

Note: Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific temperature requirements.

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FEATURES AND BENEF	113		
1 PISTON SENSING ELEMENT	2 RANGE OF SEAT MATERIALS	3 OPTIONAL AIR ACTUATOR	4 LOW CV (0.02)
Perfect for use in challenging conditions.	Covers a wide range of applications.	Fine remote adjustment.	Accurate control of process media.

oduct 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



DESIGNED AND BUILT IN THE UK

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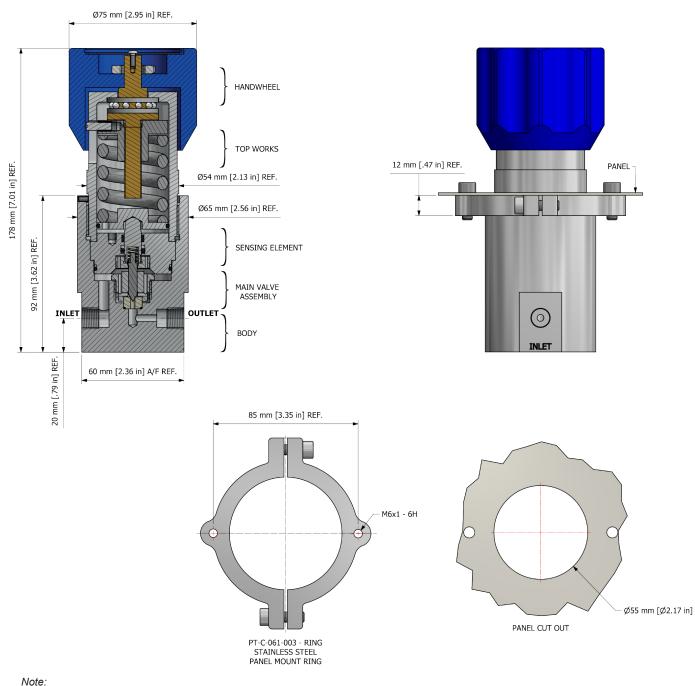
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● Gas ● Liquid	Diaphragm • Piston	Max Rating: 1,034 bar (15,000 psi)	Control Range: 900 bar (13,050 psi)	Cv 0.1
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT option - please contact the office for additional connection options.



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

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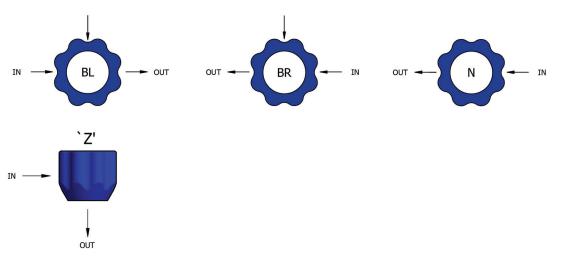


● Gas ● Liquid Diaphragm ● F	Piston Max Rating: 1,034 bar (15,000 psi	Control Range: 900 bar (13,050 psi)	Cv 0.1

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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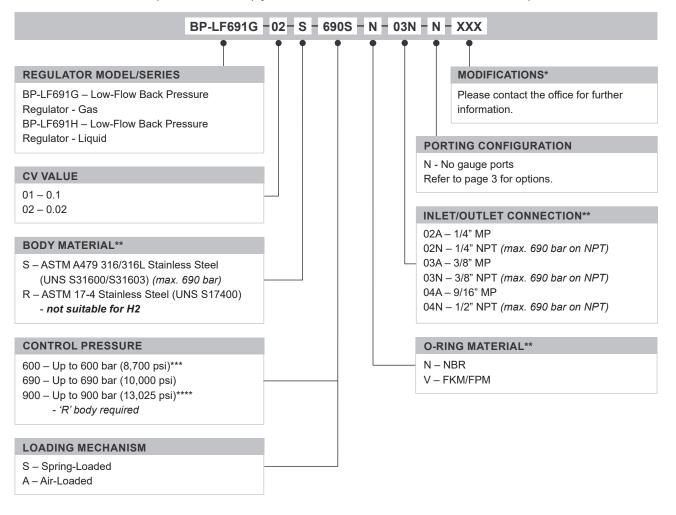
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION	
Service Kit	SRK-BP-LF691	Various options available	
Panel Mounting Ring	PT-C-061-003-RING	Stainless Steel 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 tradement of DuPont

* Where applicable

- ** Other materials/connections may be available please contact the office
- *** Air-loaded only **** T-Bar adjustment/long bonnet

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