BP-LF690 Datasheet

LOW-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

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)

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

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
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	Elgiloy® (UNS R30003) Approx. Temperatures: -196°C to 450°C
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
	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

FEATURES AND BENEFITS

PISTON SENSING ELEMENT

> Perfect for use in challenging conditions.

RANGE OF SEAT MATERIALS

> Covers a wide range of applications.

OPTIONAL AIR **ACTUATOR**

Fine remote adjustment.

4 LOW CV (0.02)

Accurate control of process media

roduct 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

T +44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com

BP-LF690 Datasheet LOW-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

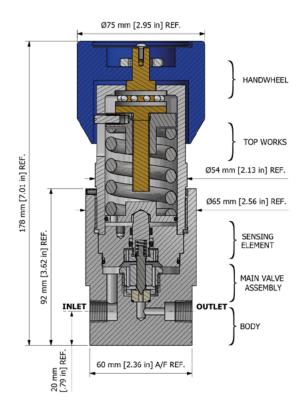
Max Rating: 550 bar (7,975 psi)

Control Range: 414 bar (6,000 psi)

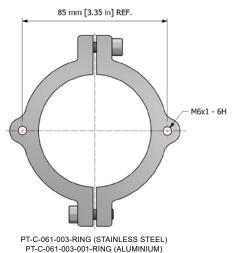
Cv 0.1

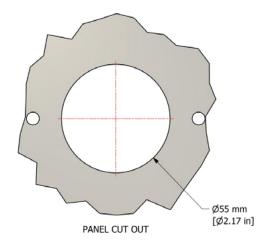
DRAWINGS AND INSTALLATION DIMENSIONS

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









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

PANEL MOUNT RING

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

T +44 (0)1457 899 307

E sales@pressure-tech.com

BP-LF690 Datasheet LOW-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

Max Rating: 550 bar (7,975 psi)

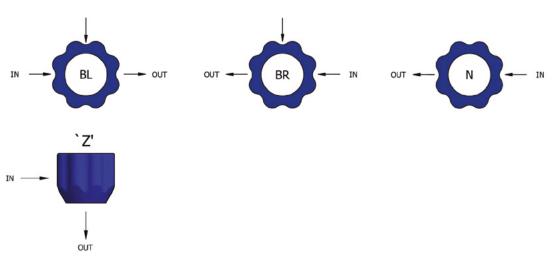
Control Range: 414 bar (6,000 psi)

Cv 0.1

FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



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

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.



DESIGNED AND BUILT IN THE UK



BP-LF690 Datasheet

LOW-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

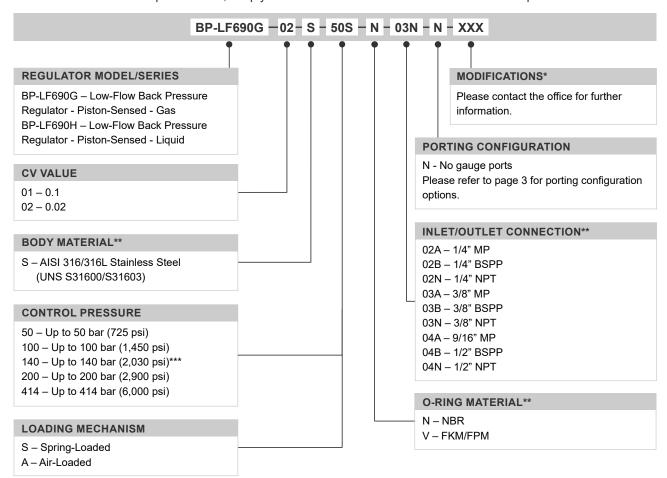
Max Rating: 550 bar (7,975 psi)

Control Range: 414 bar (6,000 psi)

Cv 0.1

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:

Hastellov® is a registered trademark of Havnes 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

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

T +44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com

