

BP-LF2KH Datasheet

ULTRA-HIGH PRESSURE BACK PRESSURE REGULATOR

PRESSURE TECH

● Gas ● Liquid | ● Diaphragm ● Piston | Max Rating: 2,068 bar (30,000 psi) | Control Range: 2,068 bar (30,000 psi) | Cv 0.1



INTRODUCING THE BP-LF2KH...

The BP-LF2KH is a high-pressure, air-actuated back pressure regulator designed for demanding hydraulic applications up to 30,000 psi (2068 bar). Featuring robust piston sensing and precision control, it delivers stable and repeatable pressure regulation across a wide operating range.

As standard, it is equipped with high-integrity metallic seating for hydraulic service, with multilayer surface coating of key internal parts for extreme performance and reliability. It accurately controls upstream (inlet) pressure and safely relieves excess pressure via high-pressure 9/16" (9/16"-18 UNF) inlet and outlet ports, ensuring compatibility with industry-standard high-pressure connections.

Engineered for reliability in extreme conditions, the BP-LF2KH is ideally suited for applications requiring precise pressure control at ultra-high pressures.

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM 17-4 Stainless Steel (UNS S17400)
Main Valve	Inconel® 718 (UNS N07718) with multilayer surface coating
Seat	Hastelloy® C22 (UNS N06022 [ASTM B574]) with multilayer surface coating
Valve Spring	Phynox®
Piston	ASTM A479 316/316L Stainless Steel (UNS S31600 / S31603)
	ASTM 17-4 Stainless Steel (UNS S17400)
O-Rings	FFKM (Kalrez®)
Actuator	Pneumatic actuator

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

SPECIFICATION

Max. Rating	2,068 bar (30,000 psi)
Control Range	Up to 2,068 bar (30,000 psi)
Cv	0.1
Design Proof Pressure	150% max. working pressure

Seat Leakage	In accordance with ANSI/FCI 70-3
Actuation Pressure	Up to 7 bar pneumatic
Weight	13 kg

FEATURES AND BENEFITS

1 ULTRA HIGH-PRESSURE CAPABILITY

Designed for reliable operation up to 30,000 psi.

2 AIR-LOADED CONTROL

Precise remote pressure control and automation integration.

3 ROBUST PISTON SENSING DESIGN

Stable, repeatable performance under dynamic conditions.

4 MULTILAYER SURFACE COATING

Wear resistant multilayer surface coating of critical components.

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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PAGE:
1 OF 4

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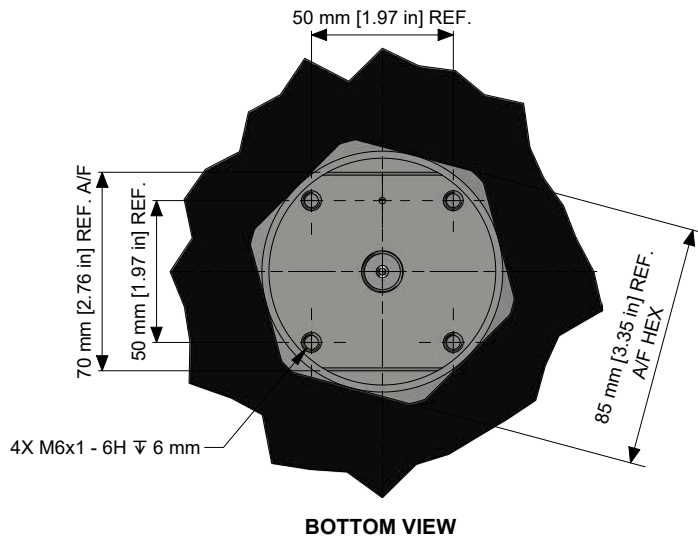
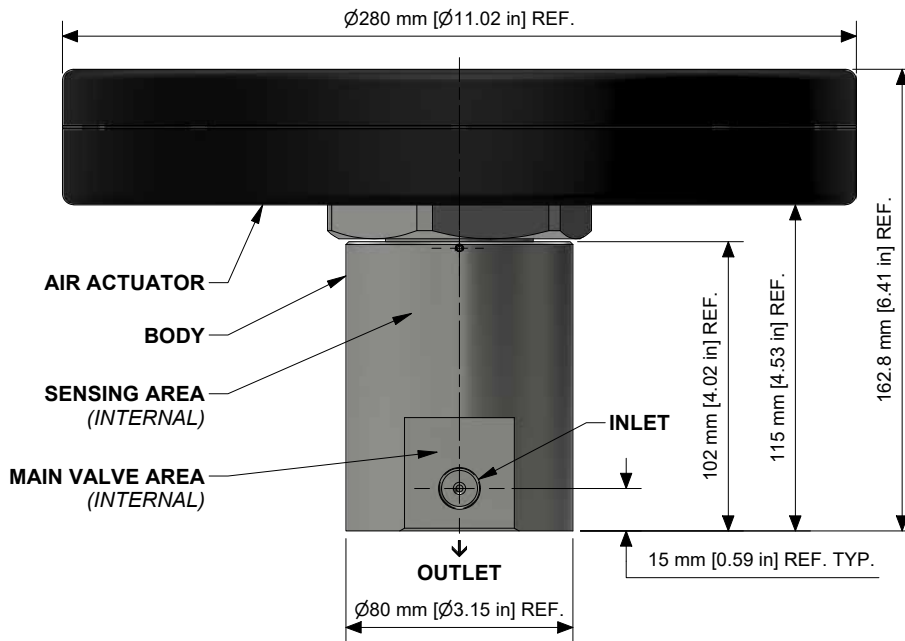
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DRAWINGS AND INSTALLATION DIMENSIONS

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PAGE:
2 OF 4

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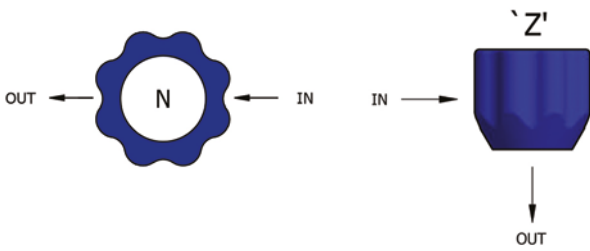


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FLOW CURVE

Please contact the office for further information.

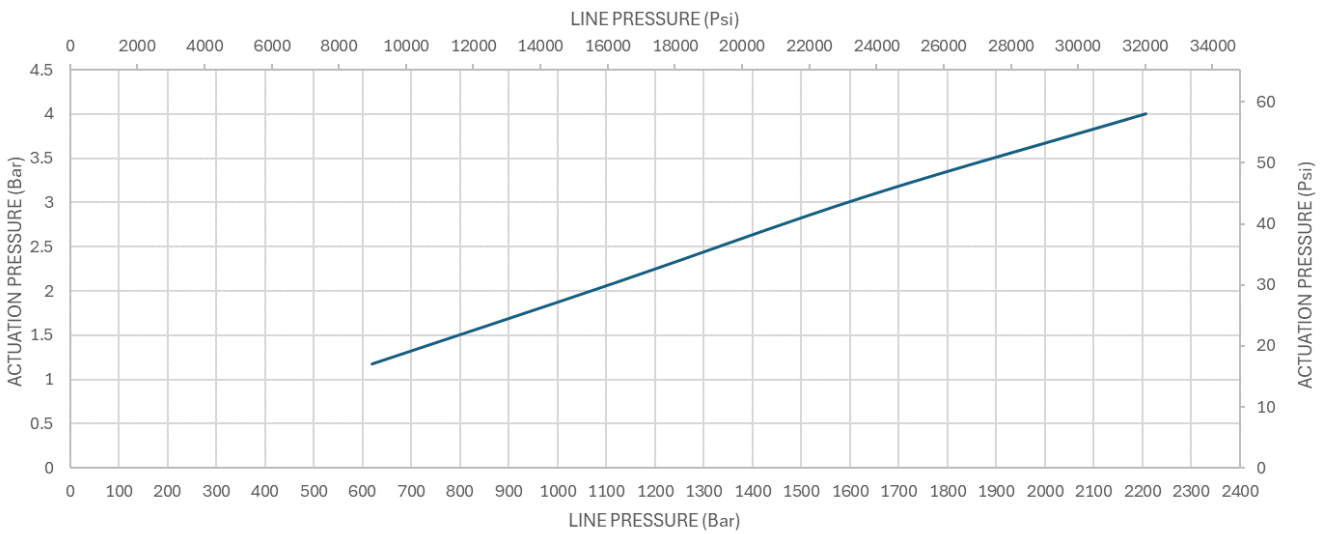
PORTING CONFIGURATIONS



Note:

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

ACTUATION PRESSURE VS LINE PRESSURE



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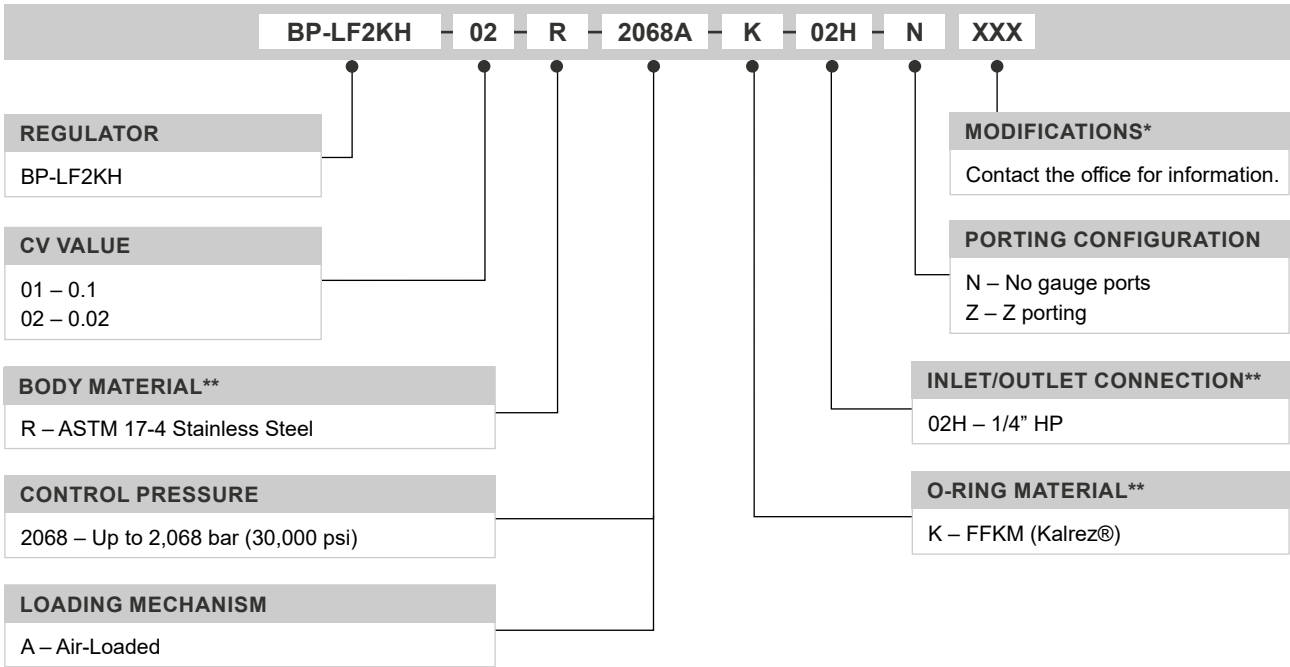
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-BP-LF2KH...	Various options available

Note: Ancillary equipment also available

TRADEMARK: Hastelloy® is a registered trademark of Haynes International, Inc
 Inconel® is a registered trademark of Inco Alloys International
 Phynox® is a registered trademark of Imphy UGINE Precision
 Kalrez® is a registered trademark of Dupont Polymers

* Where applicable
 ** Other materials/connections may be available

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