

# BP-MF691 (05) Datasheet

## MEDIUM-FLOW BACK PRESSURE REGULATOR



Gas 
  Liquid 
  Diaphragm 
  Piston 
 | Max Rating: 690 bar (10,000 psi) 
 | Control Range: 690 bar (10,000 psi) 
 | Cv 0.5



### INTRODUCING THE BP-MF691 (05)...

The BP-MF691 (05) is a piston-sensed medium-flow back pressure regulator for liquid applications. It includes Hastelloy® seating for excellent protection from cavitation and positive shut-off on medium-flow applications.

The BP-MF691 (05) accurately controls inlet pressures of up to 690 bar (10,000 psi) and vents excess pressure back via the threaded NPT or Medium Pressure outlet port.

### SPECIFICATION

Max. Rating	690 bar (10,000 psi)
Control Range	Up to 690 bar (10,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	5kg (11lbs)

### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) or ASTM 17-4 PH Stainless Steel (UNS S17400)
Main Valve Pin	Inconel® 718 (UNS N07718)
Seat	Hastelloy® C276 (UNS N10276)
Valve Spring	Elgiloy® (UNS R30003)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N) or FKM/FPM (Viton)
Loading Spring	Silicon Chrome Wire/Spring Alloy

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

<b>1</b> PISTON SENSING ELEMENT  Perfect for use in challenging conditions.	<b>2</b> PRECISION MACHINED SENSING ELEMENT  For accurate pressure control.	<b>3</b> OPTIONAL AIR ACTUATOR  For fine remote adjustment.	<b>4</b> OPTIONAL FLANGED CONNECTION  For compatibility with flanged systems.
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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

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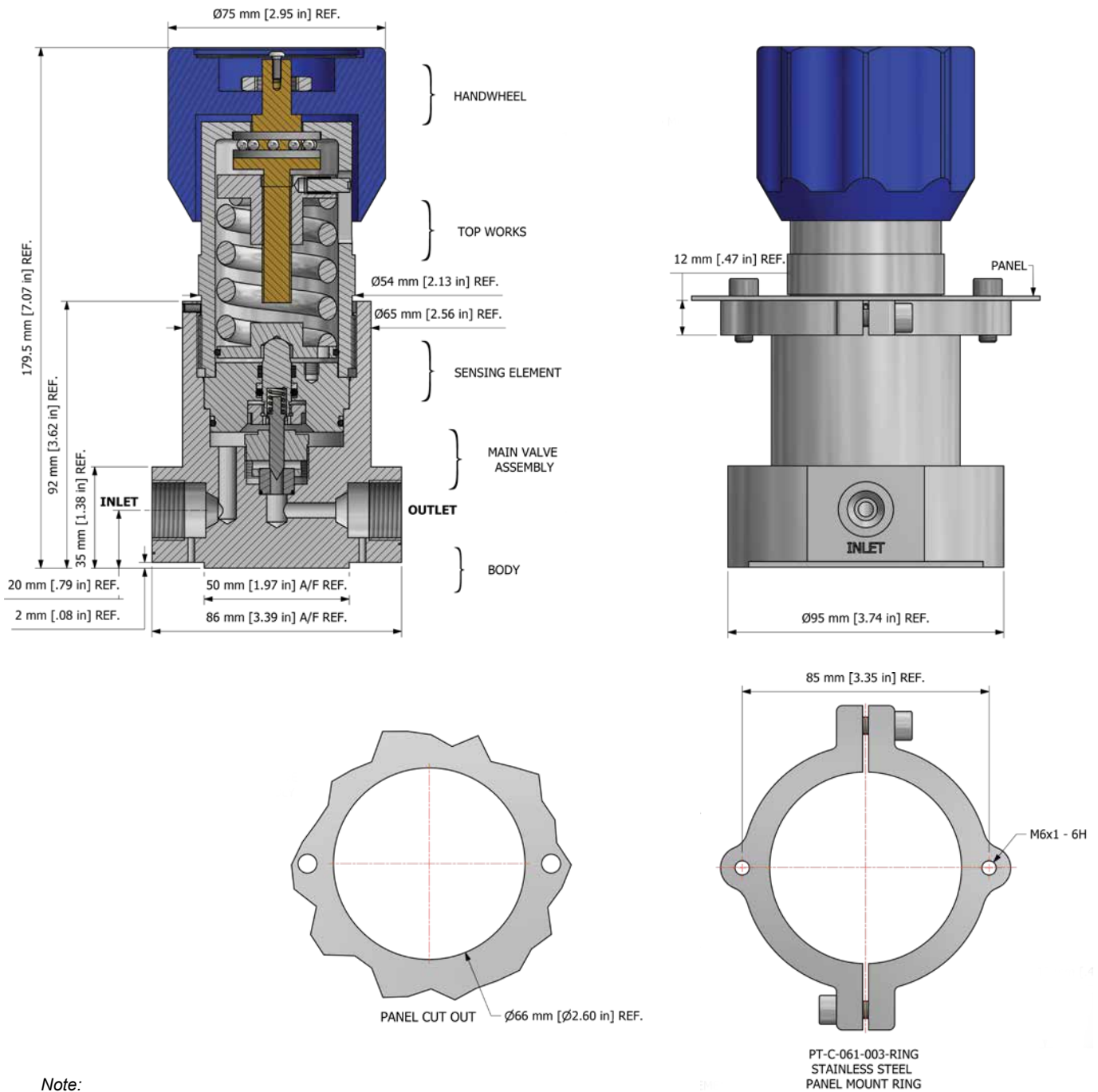
MEDIUM-FLOW BACK PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | Max Rating: 690 bar (10,000 psi) | Control Range: 690 bar (10,000 psi) | Cv 0.5

## DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/2" Medium Pressure and standard configurations only - contact the office for other options.



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

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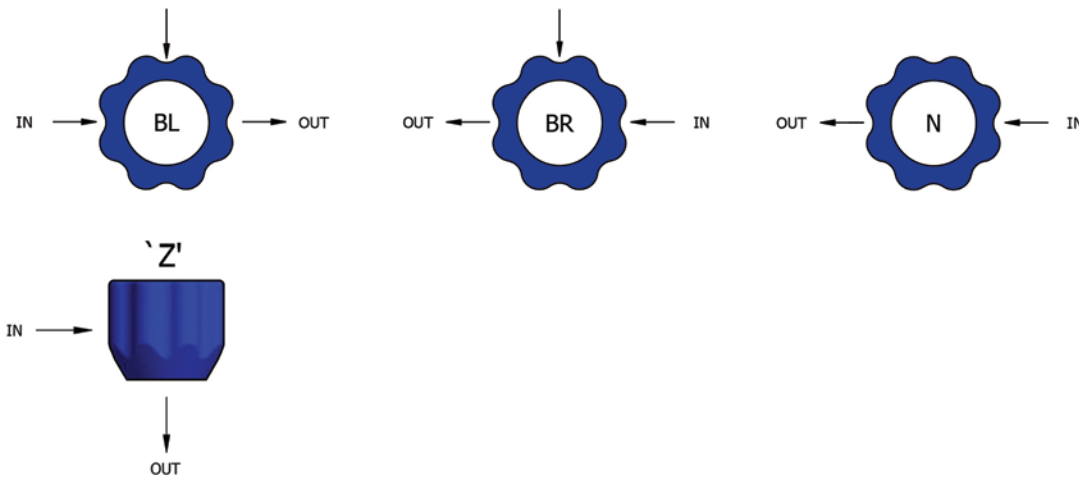


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## FLOW CURVE

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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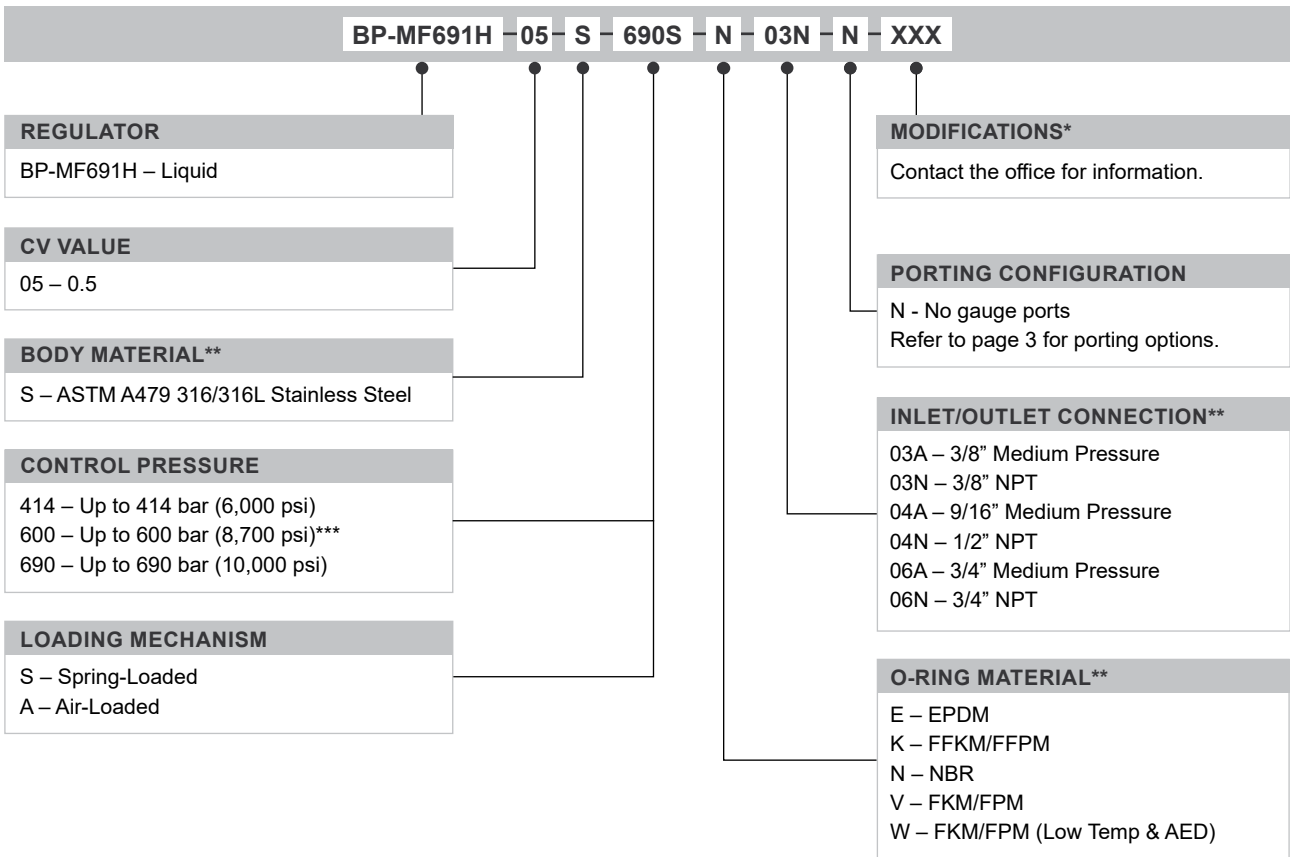
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## ORDERING INFORMATION

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



## OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-BP-MF691-05...	Various options available
Panel Mounting Ring	PT-C-061-003-RING	Panel mount ring

*Note:*  
Ancillary equipment also available

**TRADEMARK:** Elgiloy® is a registered trademark of Elgiloy Specialty Metals  
Inconel® is a registered trademark of Inco Alloys International  
Hastelloy® is a registered trademark of Haynes International, Inc

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

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