

# BP-MF690 (15) Datasheet

## MEDIUM-FLOW BACK PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | Max Rating: 690 bar (10,000 psi) | Control Range: 300 bar (4,350 psi) | Cv 1.5



### INTRODUCING THE BP-MF690 (15)...

The BP-MF690 (15) is a piston-sensed medium-flow back pressure regulator for gas or liquid applications. The gas version includes a PEEK™ seat, whilst the liquid version features ceramic seating for excellent protection from cavitation and positive shut-off on medium-flow applications.

The BP-MF690 (15) accurately controls inlet pressures of up to 300 bar (4,350 psi) and vents excess pressure back via the threaded NPT outlet port.

### SPECIFICATION

Max. Rating	690 bar (10,000 psi)
Control Range	Up to 300 bar (4,350 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	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Main Valve Pin	Inconel® Alloy 718 (UNS N07718)
Seat	PEEK™ or Ceramic
Valve Spring	AISI 302 Stainless Steel (UNS S30200)
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Handwheel	Nylon
'O'-Ring Seals	NBR or FKM / FPM
Loading Spring	Alloy Spring Steel

### FEATURES AND BENEFITS

#### 1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

#### 2 CERAMIC SEATING DESIGN

Provides the ultimate protection against cavitation on hydraulic services.

#### 3 OPTIONAL AIR ACTUATOR

For fine remote adjustment.

#### 4 OPTIONAL FLANGED CONNECTION

For compatibility with flanged systems.

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



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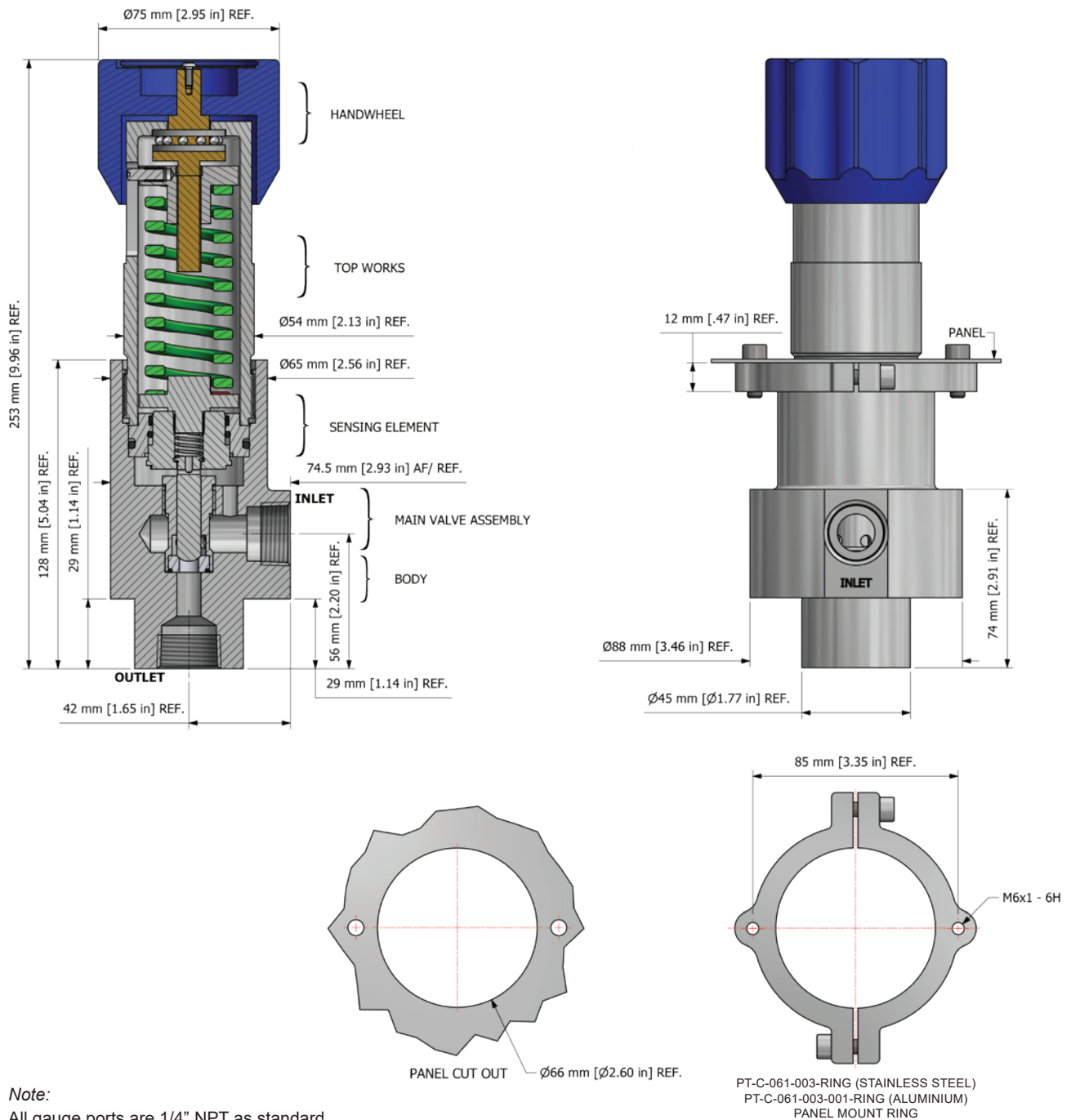
## MEDIUM-FLOW BACK PRESSURE REGULATOR

**PRESSURE TECH**

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### DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 3/4" NPT option - please contact the office for additional connection options.



**Note:**

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

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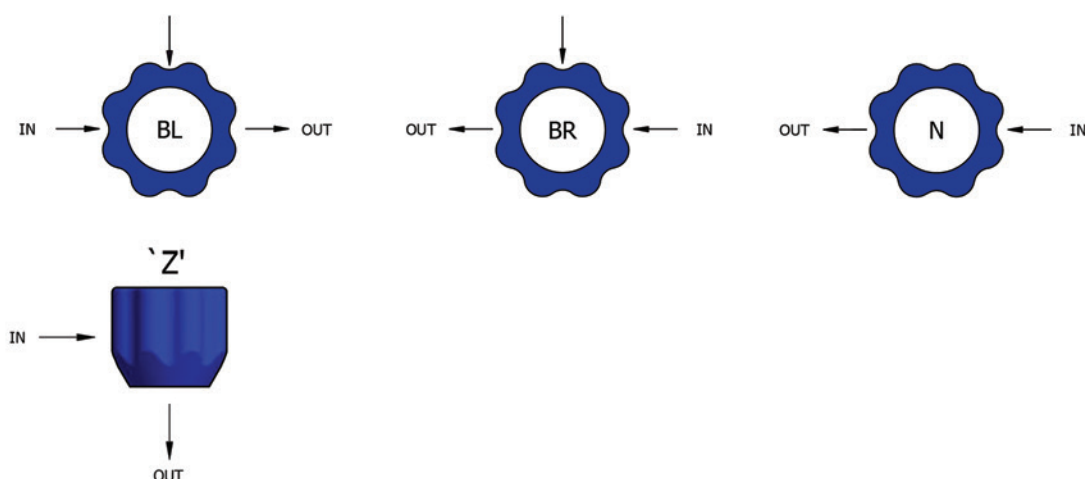


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## FLOW CURVE

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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## ORDERING INFORMATION

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

BP-MF690G - 15 - S - 50S - N - 03N - N - XXX							
<b>REGULATOR MODEL/SERIES</b> BP-MF690G – Medium-Flow Back Pressure Regulator - Piston-Sensed - Gas BP-MF690H – Medium-Flow Back Pressure Regulator - Piston-Sensed - Liquid							<b>MODIFICATIONS*</b> Please contact the office for further information.
<b>CV VALUE</b> 15 – 1.5							<b>PORTING CONFIGURATION</b> N - No gauge ports Please refer to page 3 for porting configuration options.
<b>BODY MATERIAL**</b> S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)							<b>INLET/OUTLET CONNECTION**</b> 03A – 3/8" Medium Pressure 03N – 3/8" NPT 04A – 9/16" Medium Pressure 04N – 1/2" NPT 06A – 3/4" Medium Pressure 06N – 3/4" NPT
<b>CONTROL PRESSURE</b> 50 – Up to 50 bar (725 psi) 100 – Up to 100 bar (1,450 psi) 140 – Up to 140 bar (2,030 psi)*** 200 – Up to 200 bar (2,900 psi) 300 – Up to 300 bar (4,350 psi)							<b>O-RING MATERIAL**</b> E – EPDM K – FFKM/FFPM N – NBR V – FKM/FPM
<b>LOADING MECHANISM</b> S – Spring-Loaded A – Air-Loaded							

## OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-BP-MF690-15...	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:** PEEK™ is a trademark of Victrex PLC

\* Where applicable

\*\* Other materials/connections may be available - please contact the office

\*\*\* Air loaded only

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