

BP-MF690 (15) Datasheet

MEDIUM-FLOW BACK PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | Max Rating: 690bar (10,000psi) | Control Range: 300bar (4,350psi) | 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 300bar (4,350psi) and vents excess pressure back via the threaded NPT outlet port.

SPECIFICATION

Max Rating	690bar (10,000psi)
Control Range	Up to 300bar (4,350psi)
Design Proof Pressure	150% max WP
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

PRESSURE TECH LTD

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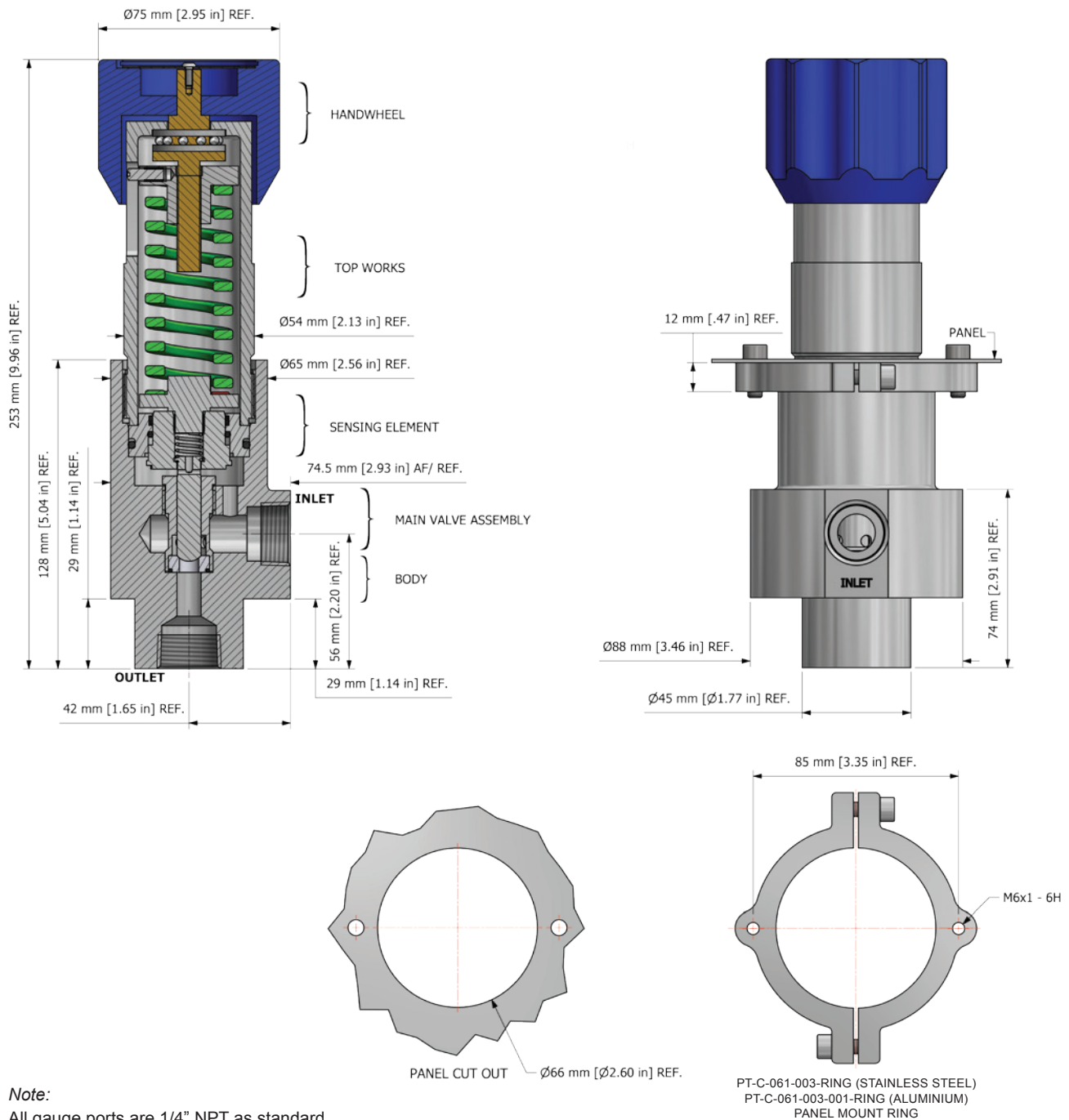
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DRAWINGS AND INSTALLATION DIMENSIONS

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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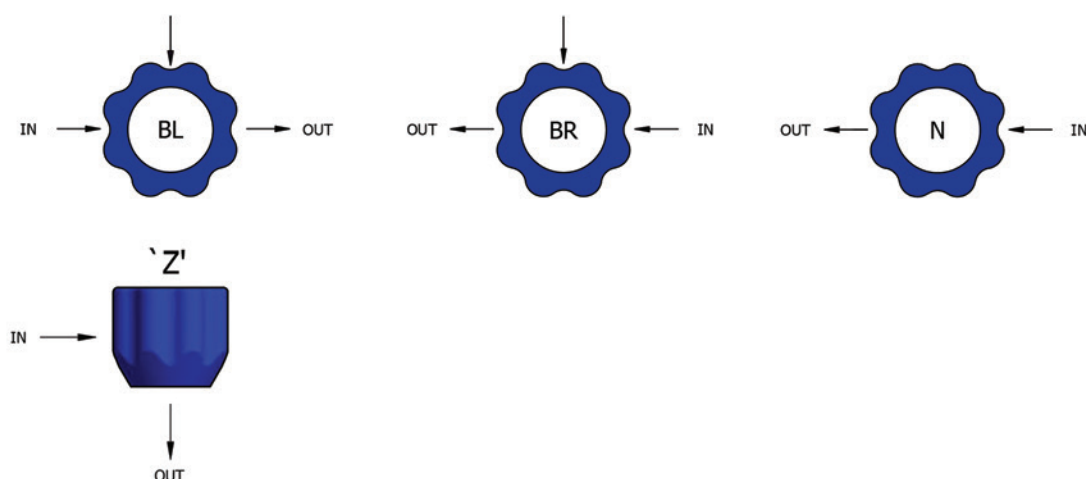


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FLOW CURVE

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							
REGULATOR MODEL/SERIES BP-MF690G – Medium-Flow Back Pressure Regulator - Piston-Sensed - Gas BP-MF690H – Medium-Flow Back Pressure Regulator - Piston-Sensed - Liquid				MODIFICATIONS* Please contact the office for further information.			
CV VALUE 15 – 1.5				PORTING CONFIGURATION N - No gauge ports Please refer to page 3 for porting configuration options.			
BODY MATERIAL** S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)				INLET/OUTLET CONNECTION** 03A – 3/8" Medium Pressure 03N – 3/8" NPT 04A – 1/4" Medium Pressure 04N – 1/2" NPT 06A – 3/4" Medium Pressure 06N – 3/4" NPT			
CONTROL PRESSURE 50 – 0 to 50bar (0 to 725psi) 100 – 0 to 100bar (0 to 1,450psi) 140 – 0 to 140bar (0 to 2,030psi)*** 200 – 0 to 200bar (0 to 2,900psi) 300 – 0 to 300bar (0 to 4,350psi)				O-RING MATERIAL** E – EPDM K – FFKM / FFKM N – NBR V – FKM/FPM			
LOADING MECHANISM S – Spring Loaded A – Air Ratio 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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