

• Gas • Liquid

DiaphragmPiston

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	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	Inconel® 718 (UNS N07718)
Seat	PEEK™ (450G)
Seal	Ceramic (Zirconia)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Piston	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Handwheel	Nylon
O Dimer	NBR N70 (Nitrile Buna N)
O-Rings	FKM/FPM (Viton)
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100)

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**

PISTON SENSING **ELEMENT** 

Perfect for use in challenging conditions.

**CERAMIC SEATING** 2 DESIGN

> Provides the ultimate protection against cavitation on hydraulic services.

OPTIONAL AIR **ACTUATOR** 

> For fine remote adjustment.

**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









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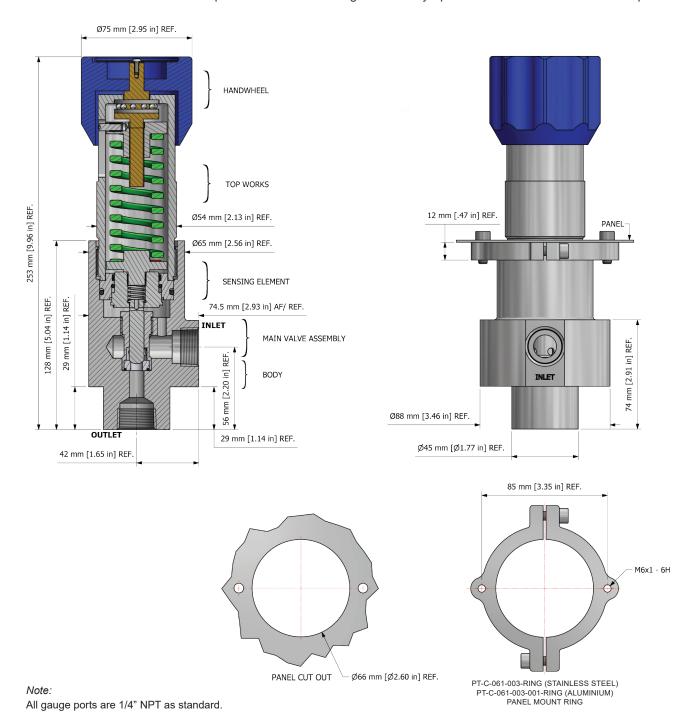
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## **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for 3/4" NPT option and standard configurations only - please contact the office for other options.



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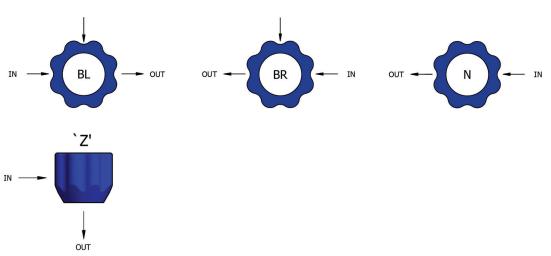
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## **FLOW CURVE**

Please contact the office for further information.

### **PORTING CONFIGURATIONS**



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

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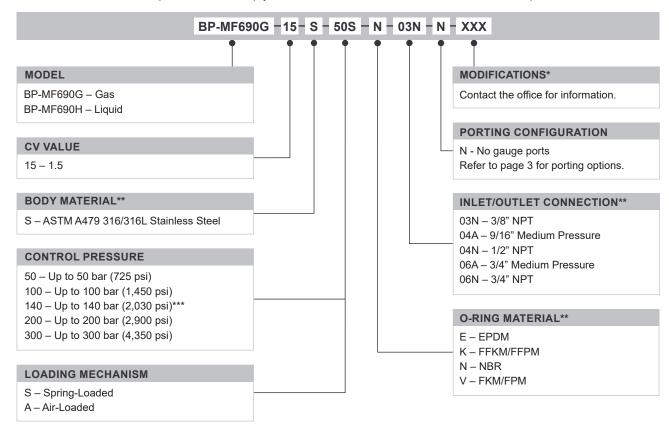
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## **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-BP-MF690-15	Various options available	
anel Mounting Ring	PT-C-061-003-RING	Stainless Steel panel mount ring	
anel Mounting Ring	PT-C-061-003-001-RING	Aluminium panel mount ring	

TRADEMARK: PEEK™ is a trademark of Victrex PLC

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

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