

• Gas • Liquid

DiaphragmPiston

Max Rating: 550 bar (7,975 psi)

Control Range: 414 bar (6,000 psi)

Cv 0.5



## INTRODUCING THE BP-MF690 (05)...

The BP-MF690 (05) 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 Hastelloy® seating for excellent protection from cavitation and positive shut-off on medium-flow applications.

The BP-MF690 (05) accurately controls inlet pressures of up to 414 bar (6,000 psi) and vents excess pressure back via the threaded NPT, BSP or MP outlet port.

## **SPECIFICATION**

Max. Rating	550 bar (7,975 psi)
Control Range	Up to 414 bar (6,000 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)				
Main Valve Pin	Inconel® 718 (UNS N07718)				
Seat	PEEK™ (450G)				
	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)				
	FKM/FPM (Viton)				
Loading Spring	Silicon Chrome Wire				

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**

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

**PRECISION MACHINED SENSING** ELEMENT

For accurate pressure control.

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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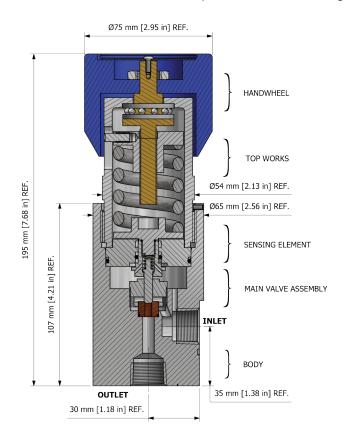
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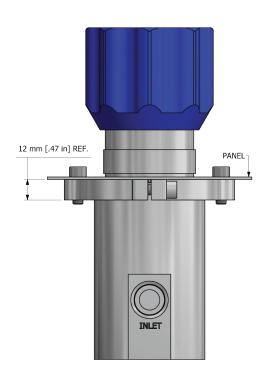
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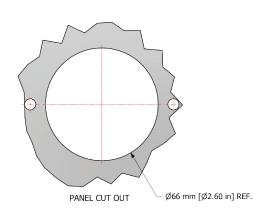
Cv 0.5

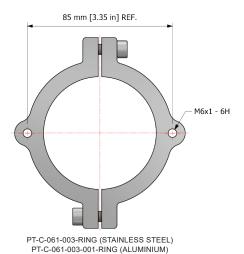
# **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for ½" NPT option and standard configurations only - please contact the office for other options.









PANEL MOUNT RING

Note:

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

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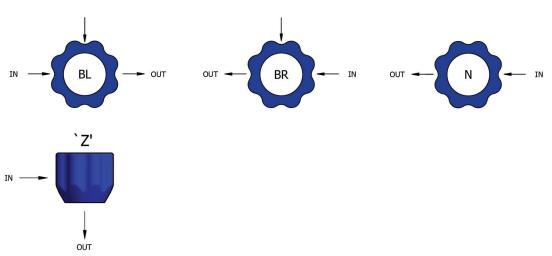
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# **FLOW CURVE**

Please contact the office for further information.

#### **PORTING CONFIGURATIONS**



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

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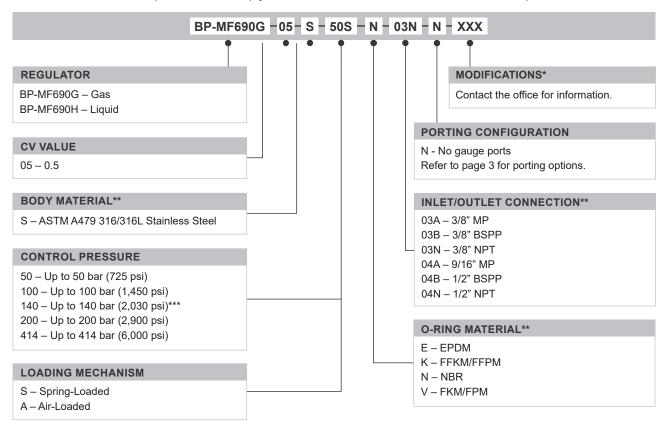
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# **ORDERING INFORMATION**

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



<del></del>				
	PART NUMBER	DESCRIPTION		
Service Kit	SRK-BP-MF690-05	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		

TRADEMARK:

Elgiloy® is a registered trademark of Elgiloy Specialty Metals Inconel® is a registered trademark of Inco Alloys International

PEEK™ is a trademark of Victrex PLC

Hastellov® is a registered trademark of Havnes International. Inc

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

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