

• Gas • Liquid

Diaphragm • Piston

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<sup>™</sup> 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**

o 414 bar (6,000 psi)
% max. working pressure
ccordance with ANSI/FCI 70-3
(11lbs)

Note: Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure requirements.

# FEATURES AND BENEFITS



Perfect for use in challenging conditions.



For accurate pressure control.

## STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -196°C to 538°C
Main Valve Pin	Inconel <sup>®</sup> 718 (UNS N07718) Approx. Temperatures: -196°C to 425°C
Seat	PEEK <sup>™</sup> (450G) Approx. Temperatures: -50°C to 204°C
Seat	Hastelloy <sup>®</sup> C276 (UNS N10276) Approx. Temperatures: -196°C to 675°C
Valve Spring	Elgiloy <sup>®</sup> (UNS R30003) Approx. Temperatures: -196°C to 450°C
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O Dingo	NBR N70 (Nitrile Buna N) Approx. Temperatures: -30°C to 120°C
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Loading Spring	Silicon Chrome Wire

#### For the full list of material temperature ranges, please visit www.pressure-tech.com.

Note: Temperature details are provided as nominal values for guidance purposes only. No warranty is made, expressed or implied. Contact the office for specific temperature requirements.

OPTIONAL AIR ACTUATOR For fine remote adjustment.



For compatibility with flanged systems.

oduct 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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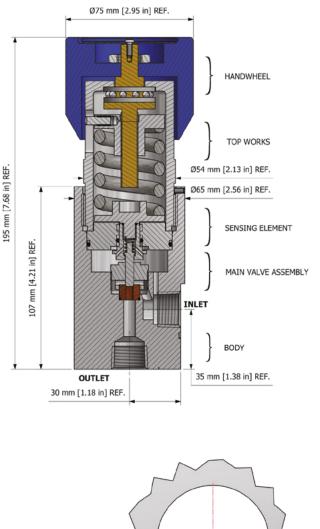


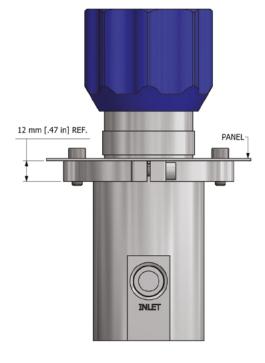


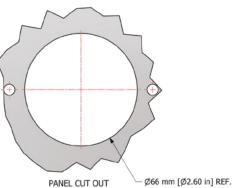
• Gas • Liquid	Diaphragm  Piston	Max Rating: 550 bar (7.975 psi)	Control Range: 414 bar (6,000 psi)	Cy 0 5
Gas Clquid		$\left(1,375\text{psi}\right)$	Control Mange. 4 14 bar (0,000 psi)	000.5

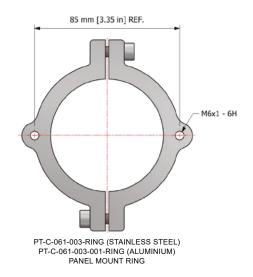
## DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/2" NPT option - please contact the office for additional connection options.









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

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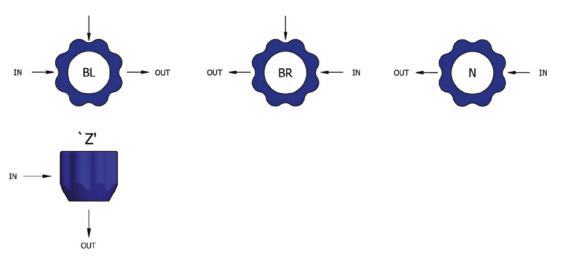


💿 Gas 💿 Liquid	Diaphragm • Piston	Max Rating: 550 bar (7,975 psi)	Control Range: 414 bar (6,000 psi)	Cv 0.5

#### **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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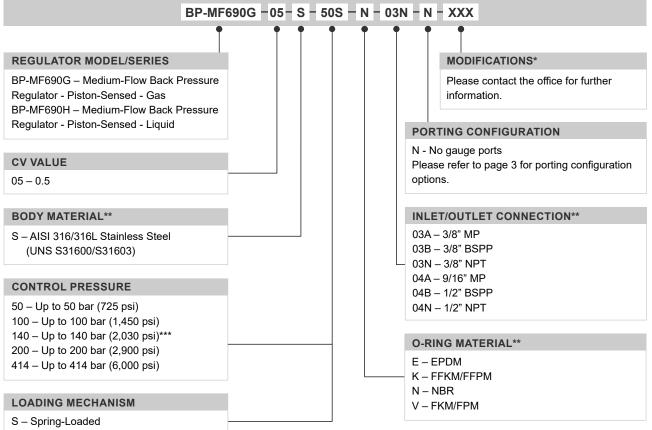




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				0.0.0

### **ORDERING INFORMATION**

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



A-Air-Loaded

#### **OPTIONAL EXTRAS**

	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<sup>™</sup> is a trademark of Victrex PLC Hastelloy® is a registered trademark of Haynes International, Inc \* Where applicable

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

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