MEDIUM-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

Max Rating: 400 bar (5,800 psi)

Max Inlet Control: 260 bar (3,770 psi)

Cv 3.0



#### INTRODUCING THE BP-MF401...

The BP-MF401 is a piston-sensed medium-flow back pressure regulator for gas or liquid applications with a balanced main valve design. The liquid version includes a PEEK™ seat, whilst the gas version features PCTFE seating.

This accurate regulator controls inlet pressure and vents excess pressure back via the threaded NPT or BSP outlet port of up to 1" diameter.

#### **SPECIFICATION**

Max. Rating	400 bar (5,800 psi)
Max. Inlet Control	Up to 260 bar (3,770 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	5.5kg (12.1lbs)

#### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	ASTM A479 316/316L Stainless Steel
Soft Seat	PEEK™
Soil Seal	PCTFE
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Handwheel	Nylon
Piston	ASTM A479 316/316L Stainless Steel
O Din re	NBR N70 (Nitrile Buna N)
	FKM/FPM (Viton)
O-Rings	EPDM (Ethalyne)
	FFKM (Kalrez)
Loading Spring	Alloy Spring Steel

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**

**PRECISION** 1 MACHINED SENSING **ELEMENT** 

> For accurate pressure control.

**EASY ACCESS TO** SEAT CARTRIDGE

> Simplified servicing through base of regulator.

FLANGE-TYPE **BONNET** 

> Quick and easy access for maintenance.

**BALANCED MAIN VALVE DESIGN** 

> Improved control across the pressure range.

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





MEDIUM-FLOW BACK PRESSURE REGULATOR



● Gas ● Liquid

DiaphragmPiston

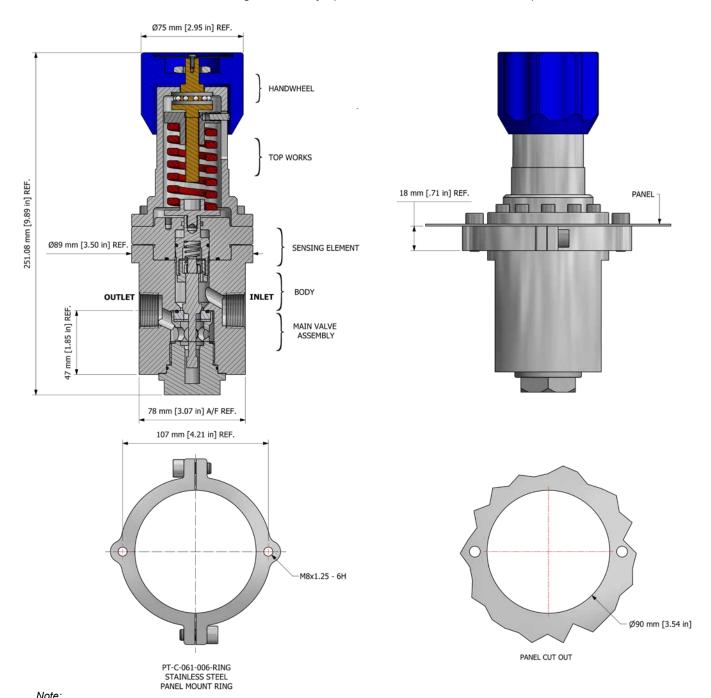
Max Rating: 400 bar (5,800 psi)

Max Inlet Control: 260 bar (3,770 psi)

Cv 3.0

### **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for standard configurations only - please contact the office for other options.



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





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





MEDIUM-FLOW BACK PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

Max Rating: 400 bar (5,800 psi)

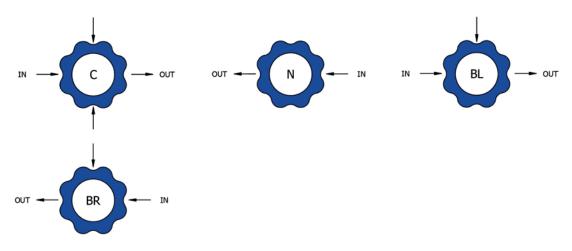
Max Inlet Control: 260 bar (3,770 psi)

Cv 3.0

### **FLOW CURVE**

Please contact the office for further information.

#### **PORTING CONFIGURATIONS**



Note:

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

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





PRESSURE TECH LTD

MEDIUM-FLOW BACK PRESSURE REGULATOR



● Gas ● Liquid

DiaphragmPiston

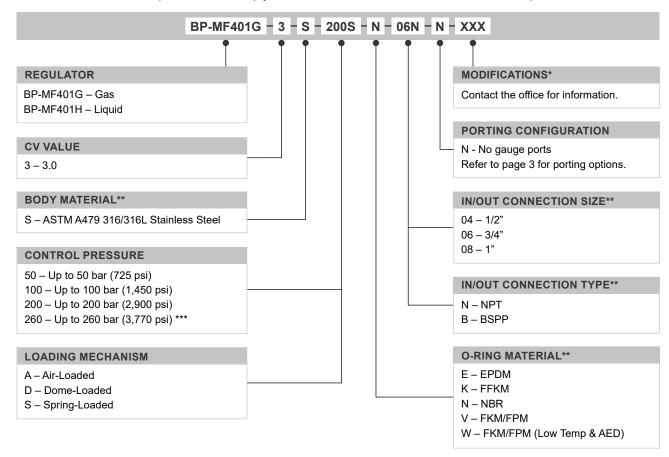
Max Rating: 400 bar (5,800 psi)

Max Inlet Control: 260 bar (3,770 psi)

Cv 3.0

### **ORDERING INFORMATION**

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



	PART NUMBER	DESCRIPTION	
Service Kit	SRK-BP-MF401	Various options available	
Panel Mounting Ring	PT-C-061-006-RING	Stainless Steel panel mount ring	

TRADEMARK: PEEK™ is a trademark of Victrex PLC

- \*\* Other materials/connections may be available
- \*\*\*Air-loaded required for 260 bar control pressure

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





