# Pressure Tech MF301 regulator



Medium-flow Pressure Regulator





MEDIUM-FLOW PRESSURE REGULATOR



• Gas • Liquid

Diaphragm • Piston

Self-Venting

Non-Venting

Max Inlet: 300 bar (4,350 psi)

Max Outlet: 300 bar (4,350 psi)

Cv 1.0 / 2.0



### **INTRODUCING THE MF301...**

The MF301 is a piston-sensed non-venting or self-venting regulator for gas or liquid applications. A PEEK™ seat is required for liquid applications.

The MF301 offers a balanced main valve as standard for maximum inlet and control pressures of up to 300 bar (4,350 psi). For higher pressures, please refer to our MF400/401.

Alternatively, an unbalanced option can be offered for applications with maximum inlet and control pressures of up to 50 bar (725 psi).

### **SPECIFICATION**

Outlet Ranges	Up to 300 bar (4,350 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	3.25kg (7.2lbs)

### 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™ (450G)
	PCTFE (Kel-F)
Valve Spring	ASTM A479 S42 Stainless Steel
	(UNS S43100)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	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**

PISTON SENSING ELEMENT

> Perfect for use in challenging conditions.

**BALANCED MAIN** VALVE DESIGN

> Improved control across the pressure range.

**SELF-VENTING OR** NON-VENTING

> Versatile use for a range of applications.

LOWER ENTRY **PLUG** 

> For simplified seat servicing.

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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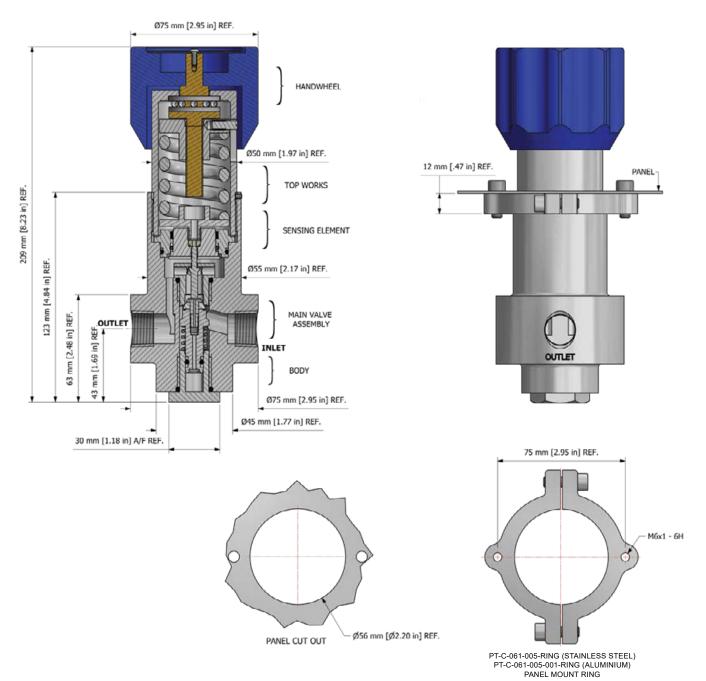
Max Inlet: 300 bar (4,350 psi)

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Cv 1.0 / 2.0

### **DRAWINGS AND INSTALLATION DIMENSIONS**

Dimensions shown for 1/2" NPT option and for standard configurations only – please contact the office for other options.



Note:

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

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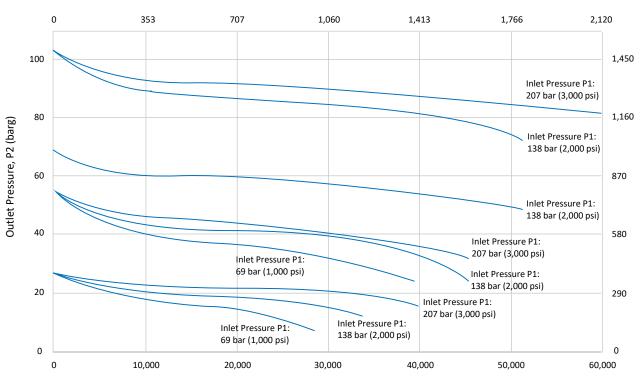
Max Outlet: 300 bar (4,350 psi)

Cv 1.0 / 2.0

Outlet Pressure, P2 (psig)

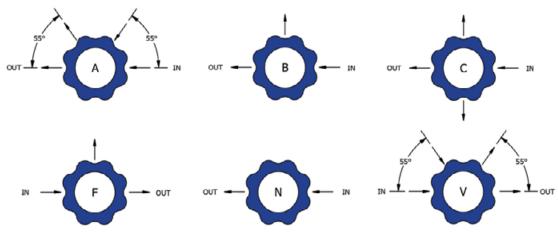
# **FLOW CURVE**

#### Flow Rate, Q (sfcm) - Nitrogen, N2



Flow Rate, Q (slpm) - Nitrogen, N <sup>2</sup>

## **PORTING CONFIGURATIONS**



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

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Self-Venting



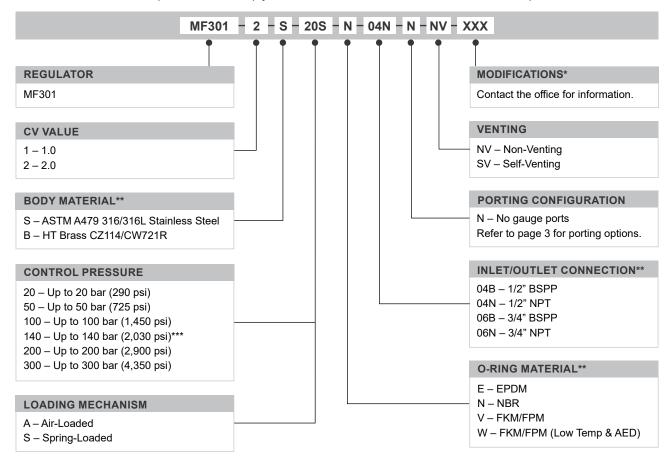
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#### ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION	
	PART NOWIDER	DESCRIPTION	
Service Kit	SRK-MF301-2-B	Various 'Balanced' options available	
Service Kit	SRK-MF301-2-U	Various 'Unbalanced' options available	
Panel Mount Ring	PT-C-061-005-RING	Stainless Steel panel mount ring	
Panel Mount Ring	PT-C-061-005-001-RING	Aluminium panel mount ring	

TRADEMARKS: Inconel® is a registered trademark of Inco Alloys International PEEK™ is a trademark of Victrex PLC

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

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