

MF301 Datasheet

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

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

3 SELF-VENTING OR NON-VENTING

Versatile use for a range of applications.

4 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.



PRESSURE TECH LTD

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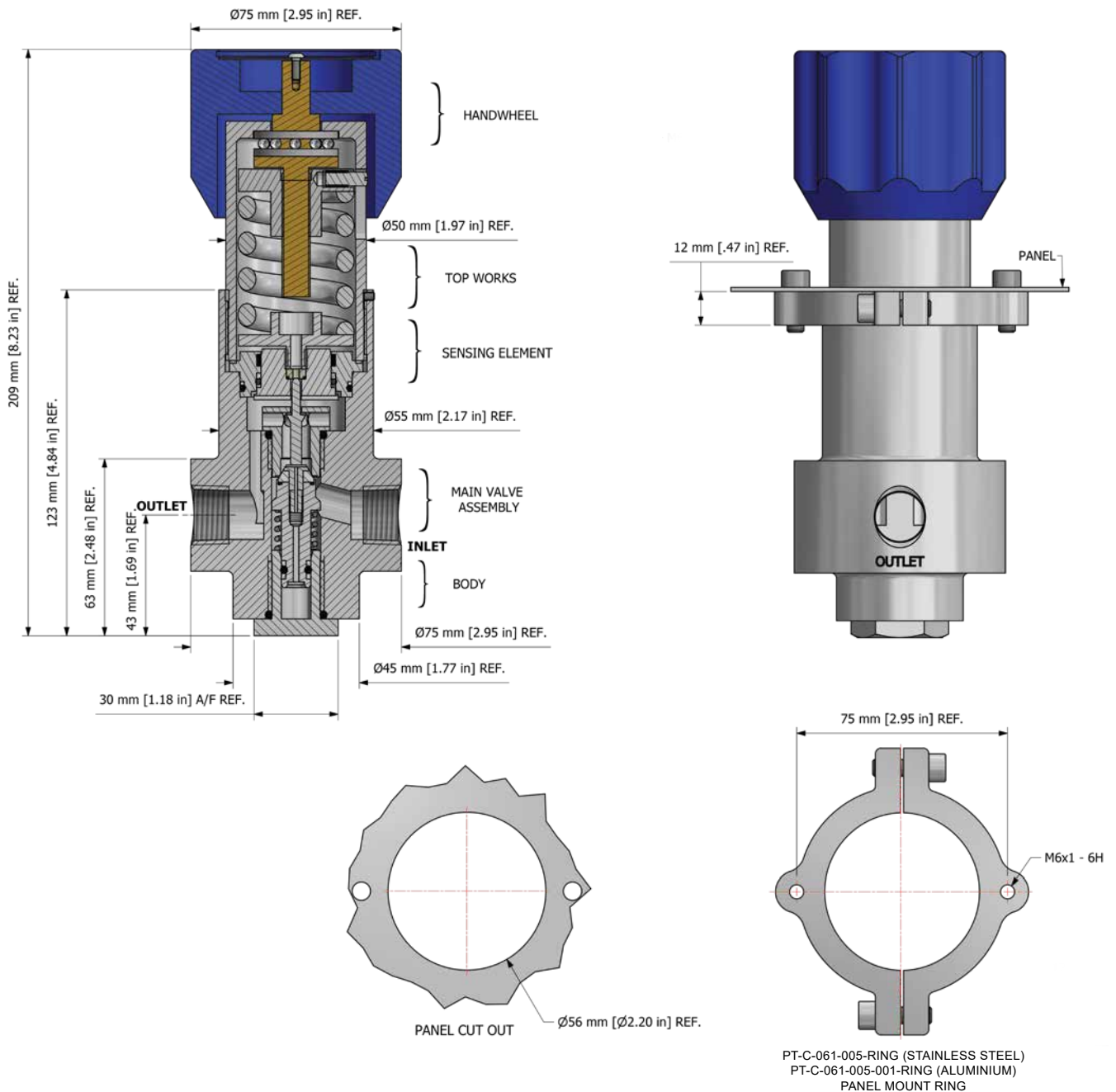
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DRAWINGS AND INSTALLATION DIMENSIONS

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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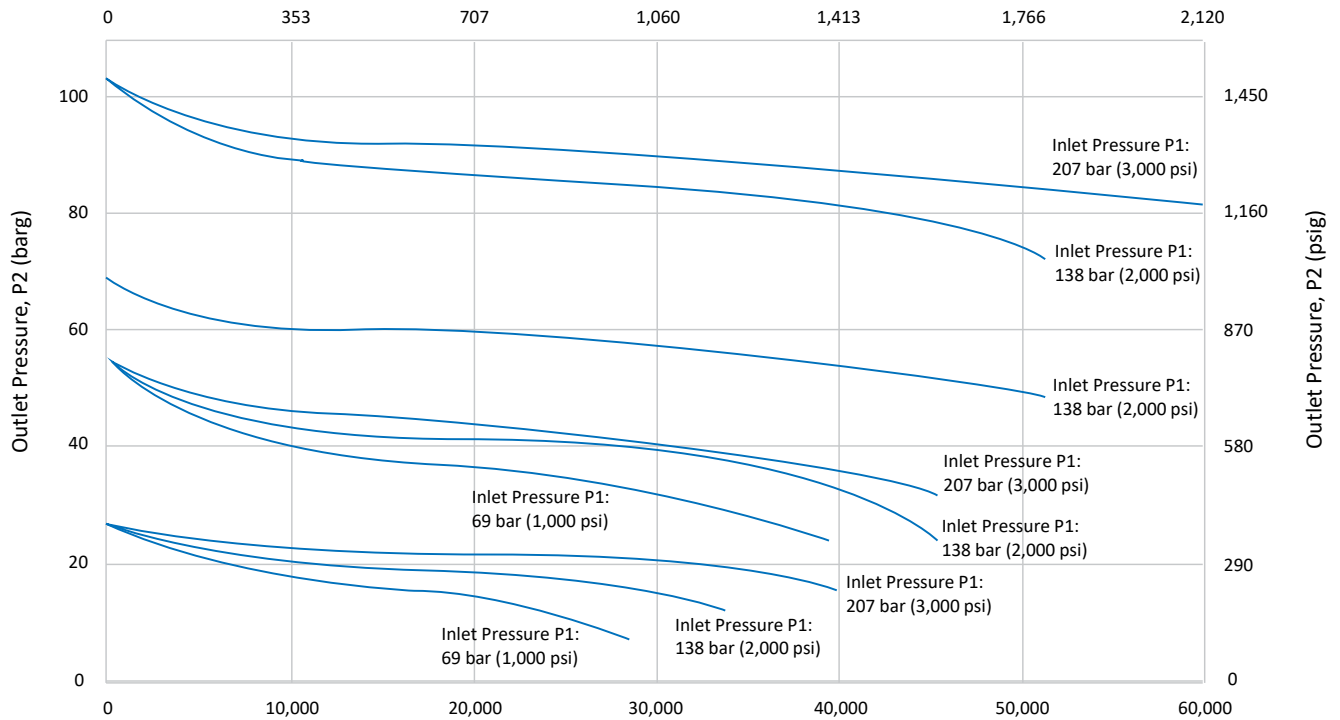
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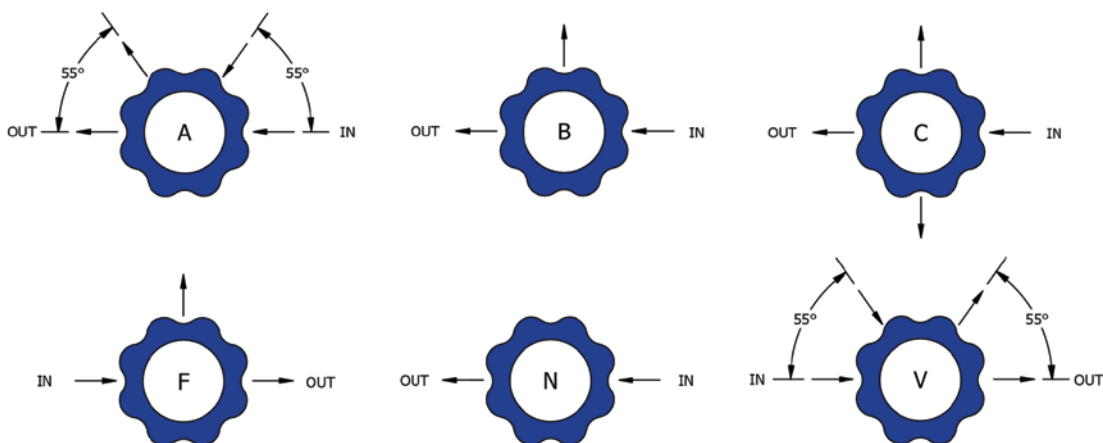
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FLOW CURVE

Flow Rate, Q (sfcM) - Nitrogen, N₂



PORTING CONFIGURATIONS



Note:

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

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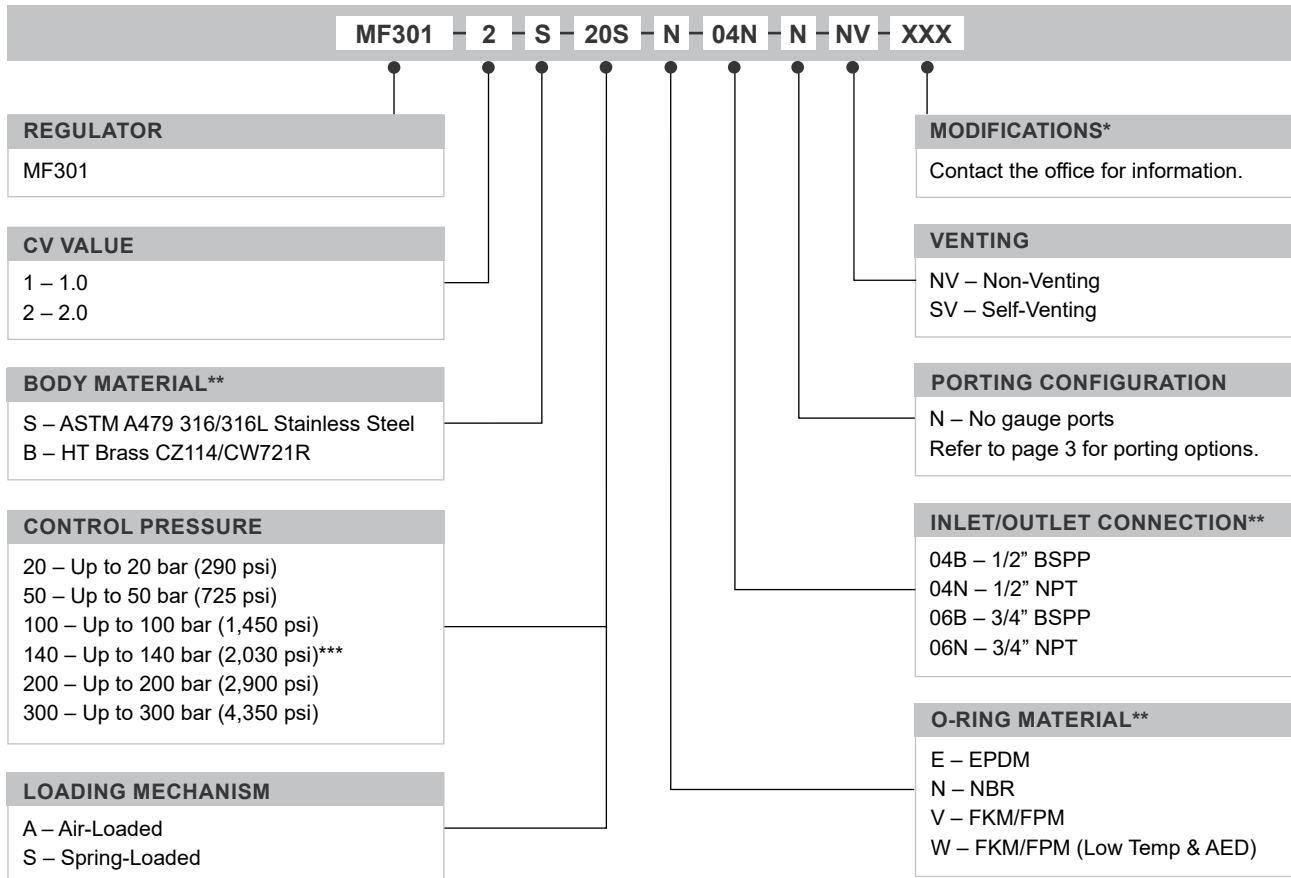
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	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

Note: Ancillary equipment also available

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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