MEDIUM-FLOW PRESSURE REGULATOR



STANDARD MATERIALS OF CONSTRUCTION

MATERIALS

AISI 316/316L Stainless Steel

(UNS S31600/S31603) AISI 316/316L Stainless Steel

(UNS S31600/S31603)

(UNS S31600/S31603)

Silicon Chrome Wire

Nylon

FKM/FPM

AISI 316 S42 Stainless Steel

AISI 316/316L Stainless Steel

PCTFE or PEEK™

• Gas	• Liquid	Diaphragm	• Piston	<ul> <li>Self- Venting</li> </ul>	Non- Venting	Max Inlet: 300 bar (4,350 psi)	Max Outlet: 300 bar (4,350 psi)	Cv 2.0

PART

Body and Bonnet

Main Valve Pin

Soft Seat

Piston

Valve Spring

Handwheel

Loading Spring

**O-Rings** 



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

The MF301 is a piston-sensed non-venting or self-venting regulator for gas or liquid applications. A PEEK<sup>™</sup> 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)

\* Pressure regulator rating may be limited by connection type, Cv and/or seat material

### FEATURES AND BENEFITS



**BALANCED MAIN** 2 VALVE DESIGN

Improved control across the pressure range.



Versatile use for a range of applications.

LOWER ENTRY PLUG

For simplified seat servicing.

PAGE:

1 оғ 4

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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MEDIUM-FLOW PRESSURE REGULATOR



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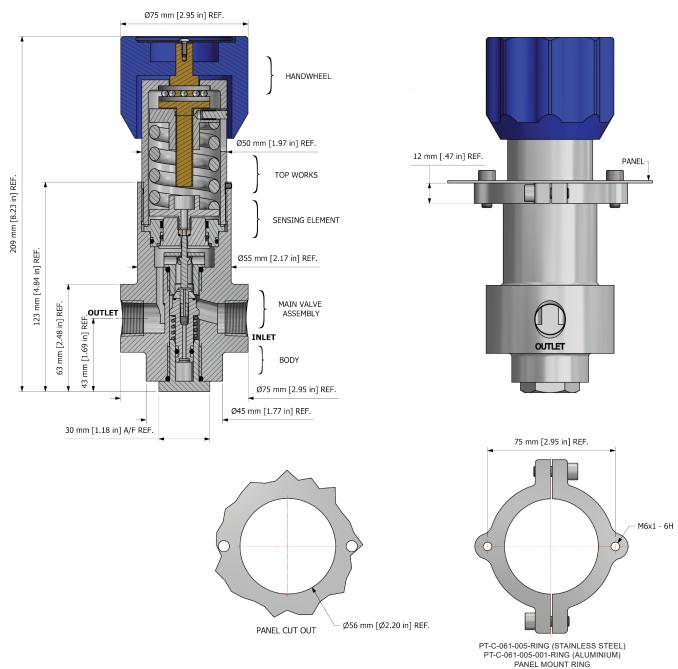
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<ul> <li>Gas O Liquid</li> <li>Diaphragm O Piston</li> <li>Self- Venting</li> <li>Non- Venting</li> <li>Max Inlet: 300 bar (4,350 psi)</li> <li>Max Outlet: 300 bar (4,350 psi)</li> <li>Cv 2.0</li> </ul>					
	● Gas ● Liquid ● Diaphragm	Piston     Self-     Venting	Non- Venting Max Inlet: 300 ba	r (4,350 psi) Max Outlet: 300 bar (4,350 psi)	Cv 2.0

### DRAWINGS AND INSTALLATION DIMENSIONS

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



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

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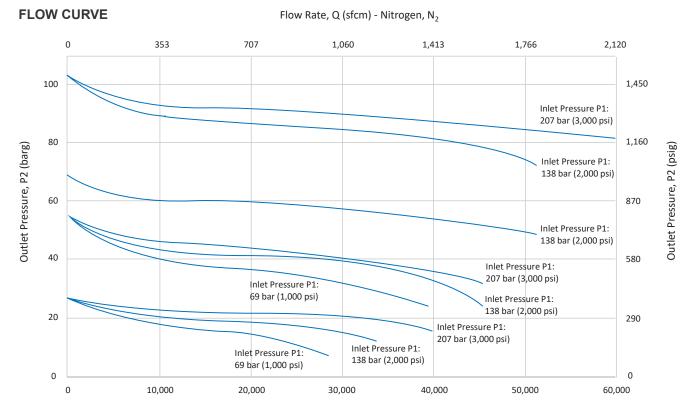
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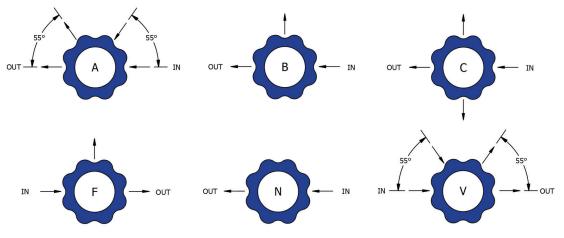
MEDIUM-FLOW PRESSURE REGULATOR



**PRESSURE TECH** 



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



### PORTING CONFIGURATIONS

Note:

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

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PAGE: 3 OF 4

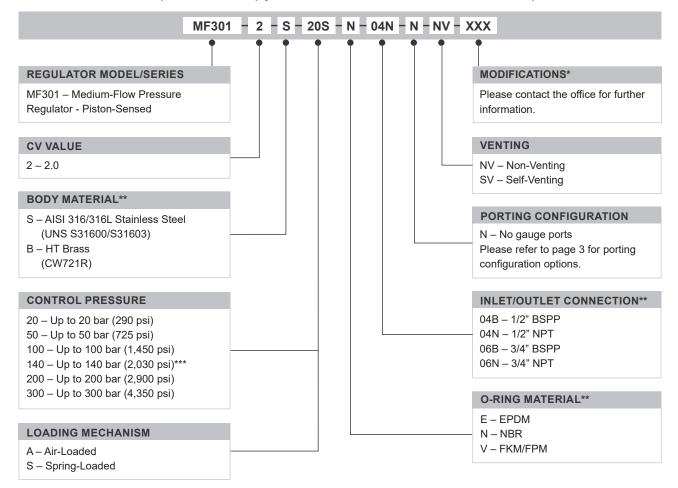
MEDIUM-FLOW PRESSURE REGULATOR



● Gas ● Liquid ● Diaphragm ● Piston ● Self- ● Non- Venting ● Non- Venting Max Inlet: 300 bar (4,350 psi) Max Outlet: 300 bar (4,350 psi) Cv 2.0	
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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: Incone<sup>®</sup> is a registered trademark of Inco Alloys International PEEK<sup>™</sup> is a trademark of Victrex PLC

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

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