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 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.

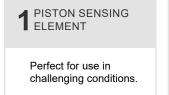
Alternatively, an unbalanced option can be offered for applications with maximum inlet and control pressures of up to 50 bar (725 psi).

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) |

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



BALANCED MAIN VALVE DESIGN

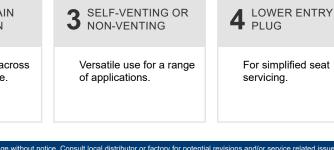
Improved control across the pressure range.

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 | ASTM A479 316/316L Stainless Steel |
| Soft Seat | PEEK [™] (450G) Approx. Temperatures: -50°C to 204°C PCTFE (KeI-F) Approx. Temperatures: -196°C to 180°C |
| Valve Spring | ASTM A479 S42 Stainless Steel (UNS S43100) Approx. Temperatures: -196°C to 538°C |
| Piston | ASTM A479 316/316L Stainless Steel |
| Handwheel | Nylon |
| 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 <u>www.pressure-tech.com</u>.

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.



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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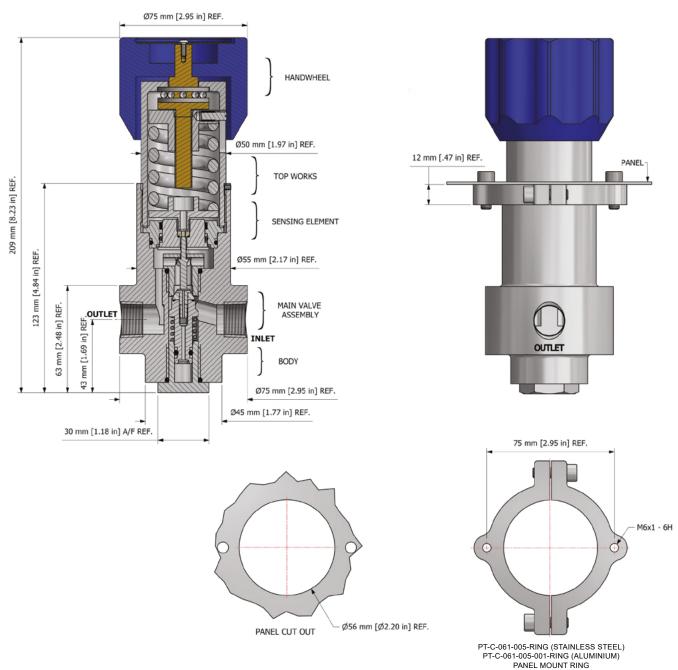
MEDIUM-FLOW PRESSURE REGULATOR





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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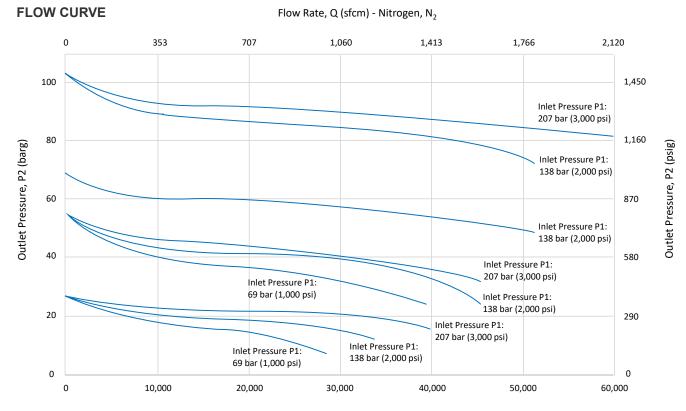
DESIGNED, MANUFACTURED AND BUILT IN THE UK



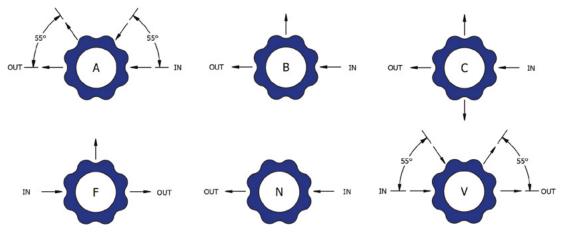
MEDIUM-FLOW PRESSURE REGULATOR



PRESSURE TECH



Flow Rate, Q (slpm) - Nitrogen, N²



Note:

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

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PORTING CONFIGURATIONS



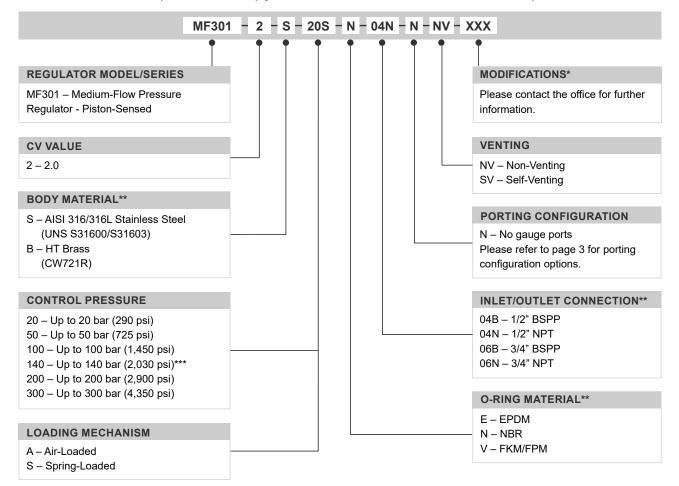
MEDIUM-FLOW PRESSURE REGULATOR



| ● Gas ● Liquid ● Diaphragm ● Piston ● Self- ● Non- Venting ● Max In | et: 300 bar (4,350 psi) Max Outlet: 300 bar (4,350 psi) Cv 2.0 |
|--|--|
|--|--|

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 - please contact the office

*** Air-loaded only

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