MEDIUM-FLOW PRESSURE REGULATOR















Max Inlet: 414 bar (6,000 psi)

Max Outlet: 414 bar (6,000 psi)

Cv 2.0



INTRODUCING THE MF414...

The MF414 is a medium-flow piston-sensed pressure regulator with a balanced main valve design to provide stable control under varying inlet pressures. Its versatility enables use on liquid (with a ceramic seat) or gas (with a PEEK™ seat) applications.

Both designs feature a segregated captured vent to allow pressure reduction of the outlet pressure through a 1/4" NPT port on the side of the regulator's body.

SPECIFICATION

Max. Rated Inlet Pressure	414 bar (6,000 psi)
Outlet Ranges	Up to 414 bar (6,000 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	6kg (13.2lbs)

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 (UNS S31600/S31603)
Soft Seat	PEEK™ (450G)
Juli Jeal	Ceramic (Zirconia)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Piston	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Handwheel	Nylon
O-Rings	NBR N70 (Nitrile Buna N)
Loading Spring	ASTM A240 301 Stainless 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

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

BALANCED MAIN 2 BALANGES ...
VALVE DESIGN

> Improved control across the pressure range.

SEGREGATED CAPTURED VENT

> Prevents deterioration to loading mechanism and allows media to be piped off to return tank.

HIGH FLOW COEFFICIENT

> Cv 2.0 for higher flow capabilities.

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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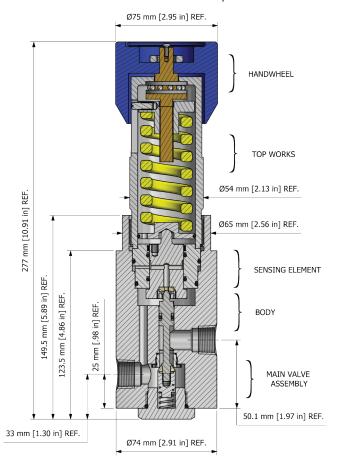
Max Inlet: 414 bar (6,000 psi)

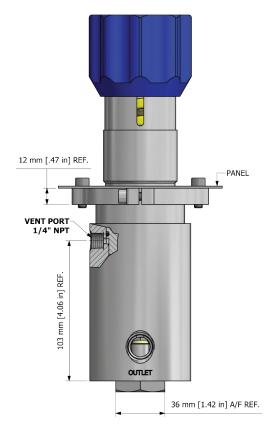
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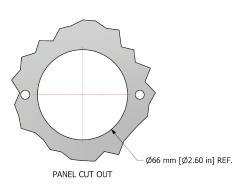
Cv 2.0

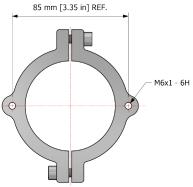
DRAWINGS AND INSTALLATION DIMENSIONS

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









PT-C-061-003-RING (STAINLESS STEEL) PT-C-061-003-001-RING (ALUMINIUM) PANEL MOUNT RING

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

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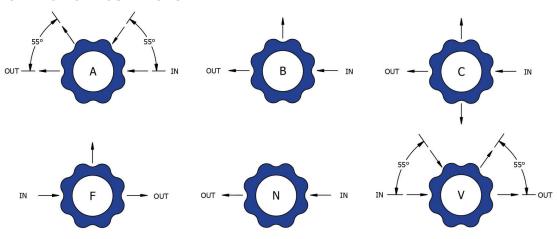
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FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Note:

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

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• Gas • Liquid

DiaphragmPiston



Non-Venting

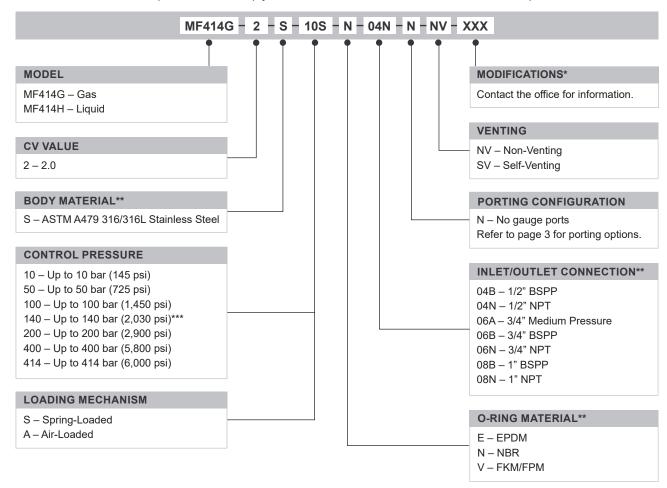
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Cv 2.0

ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-MF414-2-B	Various options available
Panel Mount Ring	PT-C-061-003-RING	Stainless Steel panel mount ring
Panel Mount Ring	PT-C-061-003-001-RING	Aluminium panel mount ring

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

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

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