MEDIUM-FLOW PRESSURE REGULATOR













Max Inlet: 414bar (6,000psi)

Max Outlet: 414bar (6,000psi)

Cv 2.0



INTRODUCING THE MF-414...

The MF-414 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	414bar (6,000psi)
Outlet Ranges	Up to 414bar (6,000psi)
Design Proof Pressure	150% max WP
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	6kg (13.2lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	AISI 316 / 316L Stainless Steel
	(UNS S31600 / S31603)
Main Valve Pin	AISI 316 / 316L Stainless Steel
	(UNS S31600 / S31603)
Soft Seat	PEEK™ / Ceramic
Valve Spring	AISI 302 S26 Stainless Steel
Piston	AISI 316 / 316L Stainless Steel
	(UNS S31600 / S31603)
Handwheel	Nylon
'O'-Ring Seals	NBR
Loading Spring	Alloy Spring Steel

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

BALANCED MAIN 2 BALANCES

> 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 4 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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MEDIUM-FLOW PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston







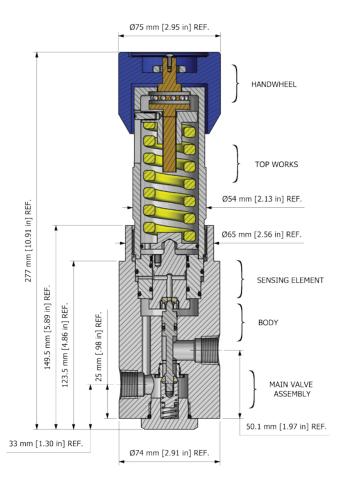
Max Inlet: 414bar (6,000psi)

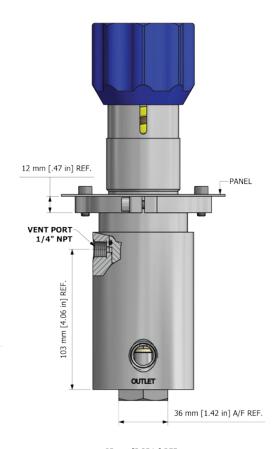
Max Outlet: 414bar (6,000psi)

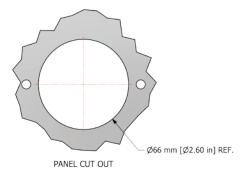
Cv 2.0

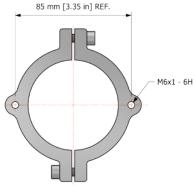
DRAWINGS AND INSTALLATION DIMENSIONS

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



Non-Venting

Max Inlet: 414bar (6,000psi)

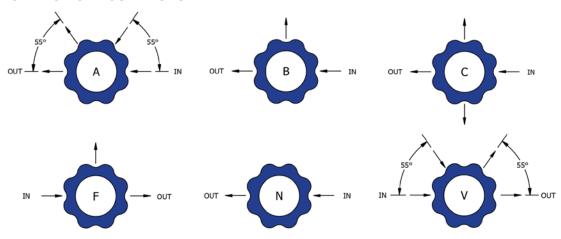
Max Outlet: 414bar (6,000psi)

Cv 2.0

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

Self-Venting

Non-Venting

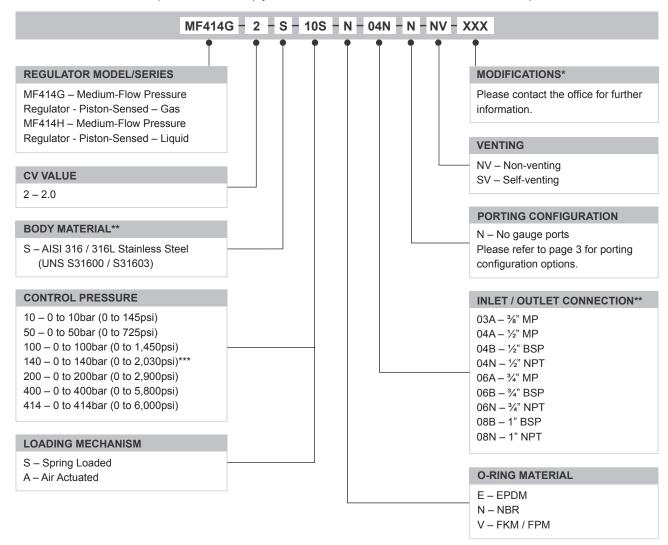
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Cv 2.0

ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-MF414-2-B	Various options available
Panel Mount Ring	PT-C-061-003-RING	Staineless Steel panel mount ring
Panel Mount Ring	PT-C-061-003-001-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 materials may be available please contact the office
- *** Air loaded only

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