MEDIUM-FLOW PRESSURE REGULATOR







DiaphragmPiston





Non-Venting

Max Inlet: 414 bar (6,000 psi)

Max Outlet: 40 bar (580 psi)

Cv 0.5





INTRODUCING THE MF101...

The MF101 is a piston-sensed medium-flow pressure regulator. With an unbalanced main valve and non-venting design as standard, the MF101 controls outlet pressures up to 40 bar (580 psi) from a maximum 100 bar (1,450 psi) inlet pressure.

Alternatively, a balanced option can be offered with a non-venting or self-venting (non-captured) design and enables inlet pressures of up to 414 bar (6,000 psi) using a PEEK™ seat, controlling outlet pressures up to 35 bar (510 psi).

SPECIFICATION

Outlet Ranges	Up to 35 bar (510 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	1.2kg (2.4lbs)

FEATURES AND BENEFITS

LARGE PRECISION-MACHINED SENSING **ELEMENT**

Accurate control of outlet pressures up to 40 bar (580 psi) on non-venting models.

OPTIONAL BALANCED DESIGN

> For inlet pressures of up to 414 bar (6,000 psi).

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body & 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	UNBALANCED: ASTM A240 301 Stainless Steel (UNS S30100)
	BALANCED: Inconel® X750 (UNS N07750)
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	FKM/FPM (Viton)
Loading Spring	ASTM A240 301 Stainless Steel

	Maximum Inlet Press	ure
Seat Material	Balanced	Unbalanced
PEEK™	414 bar (6,000 psi)	100 bar (1,450 psi)
PCTFE	300 bar (4,350 psi)	100 bar (1,450 psi)

Note: Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

LIGHTWEIGHT & **COMPACT DESIGN**

> Perfect for when installation space is restricted.

SELF-VENTING OR **NON-VENTING**

> Versatile use for a range of applications.

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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• Gas • Liquid

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Non-Venting

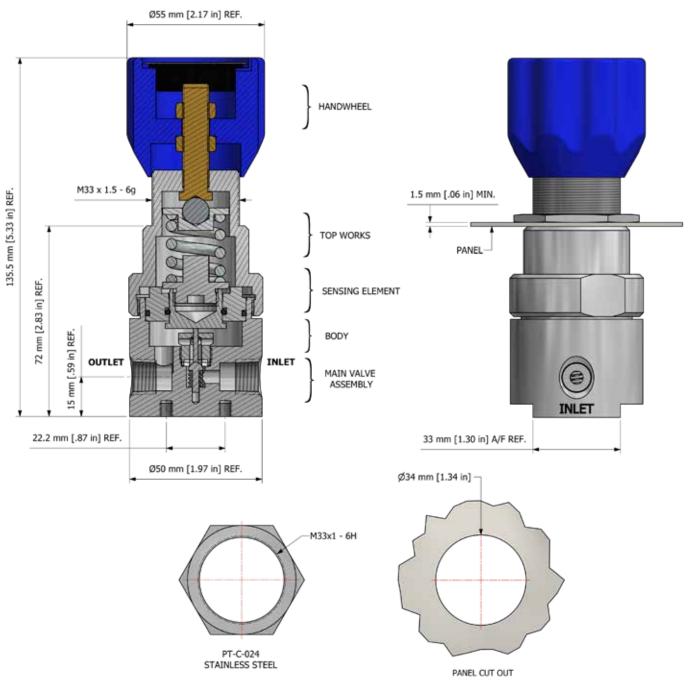
Max Inlet: 414 bar (6,000 psi)

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Cv 0.5

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT option and standard configurations only - please contact the office for other options.



Note:

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

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Self-Venting

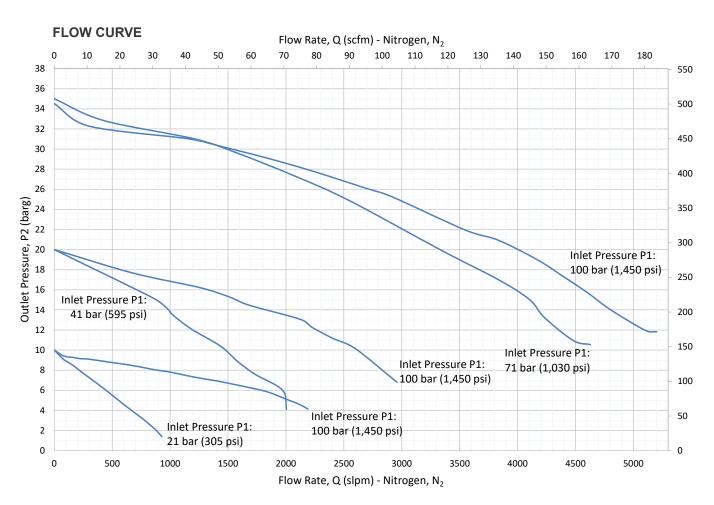
Non-Venting

Max Inlet: 414 bar (6,000 psi)

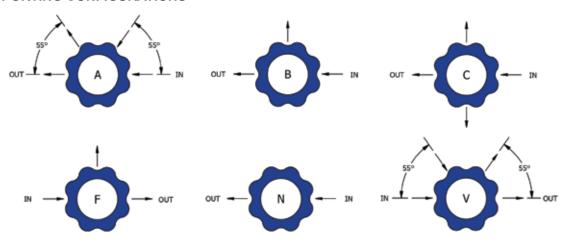
Max Outlet: 40 bar (580 psi)

Cv 0.5

Outlet Pressure, P2 (psig)



PORTING CONFIGURATIONS



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

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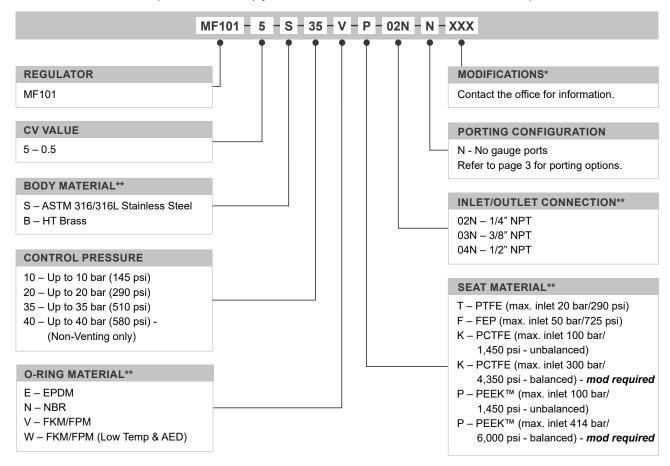
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ORDERING INFORMATION

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



	PART NUMBER	DESCRIPTION
Service Kit	SRK-MF101-05-B	Various 'Balanced' options available
Service Kit	SRK-MF101-05-U	Various 'Unbalanced' options available
Panel Mount Ring	PT-C-024	-

TRADEMARKS: PEEK™ is a trademark of Victrex PLC

Inconel® is a registered trademark of Inco Alloys International

- * Where applicable
- ** Other materials/connections may be available

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