MEDIUM-FLOW PRESSURE REGULATOR





• Gas • Liquid

Diaphragm 
Piston

Self-Venting

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**

Maximum Inlet Pressure		
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)

## STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body & Bonnet	AISI 316/316L Stainless Steel
Body & Bonnet	(UNS S31600/S31603)
Main Valve Pin	AISI 316/316L Stainless Steel
	(UNS S31600/S31603)
Soft Seat	PEEK™ or PCTFE
Valve Spring	AISI 302 S26 Stainless Steel (Unbalanced)
	Inconel® X750 (Balanced)
Piston	AISI 316/316L Stainless Steel
PISION	(UNS S31600/S31603)
Handwheel	Nylon
O-Rings	FKM/FPM
Loading Spring	AISI 302 Stainless Steel (UNS S30200)

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)

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

#### **FEATURES AND BENEFITS**

LARGE PRECISION-1 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).

LIGHTWEIGHT & **COMPACT DESIGN** 

> Perfect for when installation space is restricted.

**SELF-VENTING** 4 OR NON-VENTING MODELS

> 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.





## PRESSURE TECH LTD

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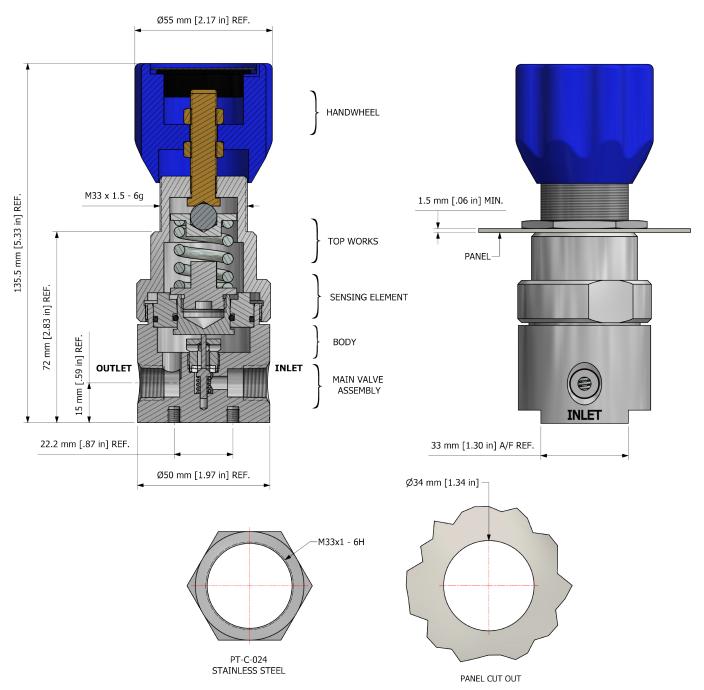


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## **DRAWINGS AND INSTALLATION DIMENSIONS**



Note:

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

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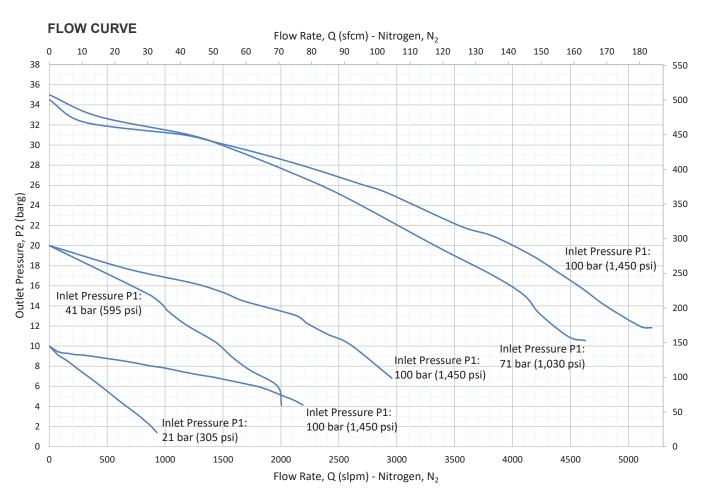
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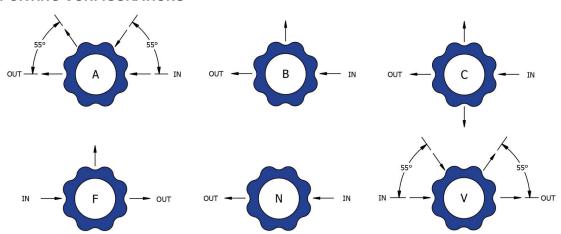
MEDIUM-FLOW PRESSURE REGULATOR



Outlet Pressure, P2 (psig)



## **PORTING CONFIGURATIONS**



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

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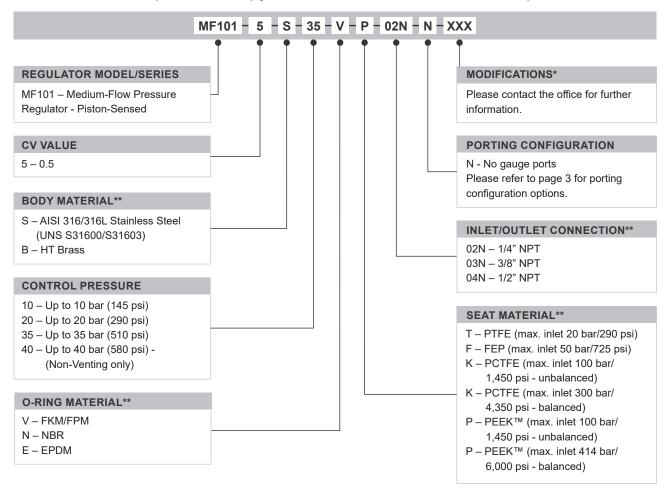
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#### ORDERING INFORMATION

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
- $^{\star\star}$  Other materials/connections may be available please contact the office

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