MEDIUM-FLOW PRESSURE REGULATOR















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	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
Soli Seai	PCTFE (Kel-F) Approx. Temperatures: -196°C to 180°C
Valve Spring	UNBALANCED: ASTM A240 301 Stainless Steel (UNS S30100) Approx. Temperatures: -29°C to 370°C
	BALANCED: Inconel® X750 (UNS N07750) Approx. Temperatures: -196°C to 700°C
Piston	ASTM A479 316/316L Stainless Steel
Handwheel	Nylon
O-Rings	FKM/FPM (Viton) Approx. Temperatures: -20°C to 200°C
Loading Spring	ASTM A240 301 Stainless Steel (UNS S30100)

For the full list of material temperature ranges, please visit www.pressure-tech.com.

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

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)

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

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).

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





PRESSURE TECH LTD

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

+44 (0)1457 899 307

E sales@pressure-tech.com W www.pressure-tech.com

MEDIUM-FLOW PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston

Self-Venting

Non-Venting

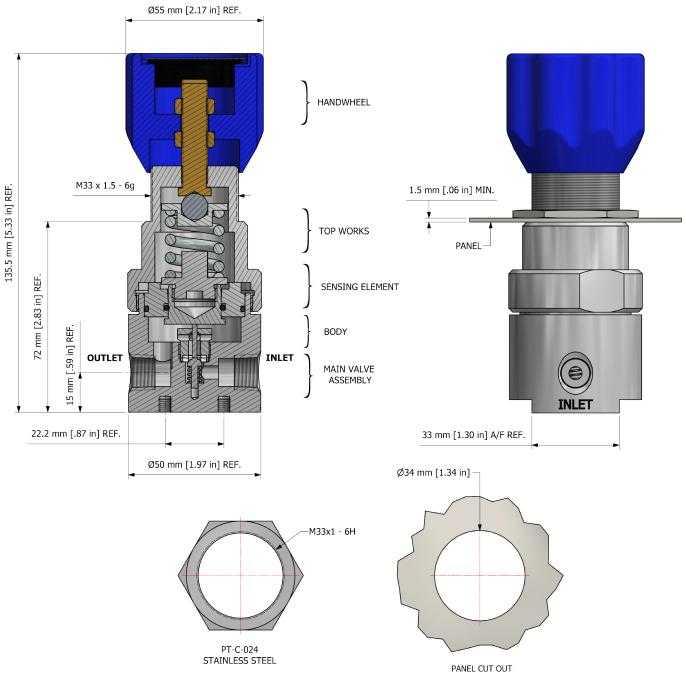
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 40 bar (580 psi)

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.

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

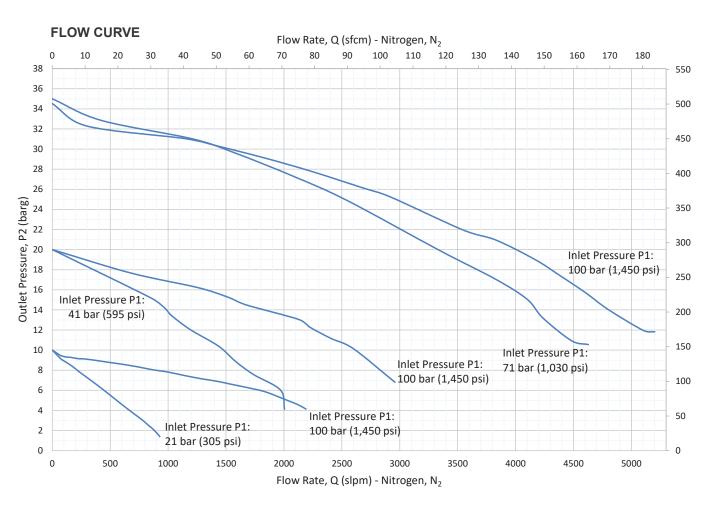
Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

- +44 (0)1457 899 307
- sales@pressure-tech.com W www.pressure-tech.com

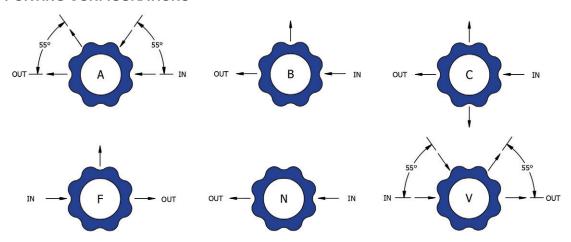
MEDIUM-FLOW PRESSURE REGULATOR



Outlet Pressure, P2 (psig)



PORTING CONFIGURATIONS



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

ained 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

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

- +44 (0)1457 899 307
- sales@pressure-tech.com

MEDIUM-FLOW PRESSURE REGULATOR



• Gas • Liquid

DiaphragmPiston



Self-Venting

Non-Venting

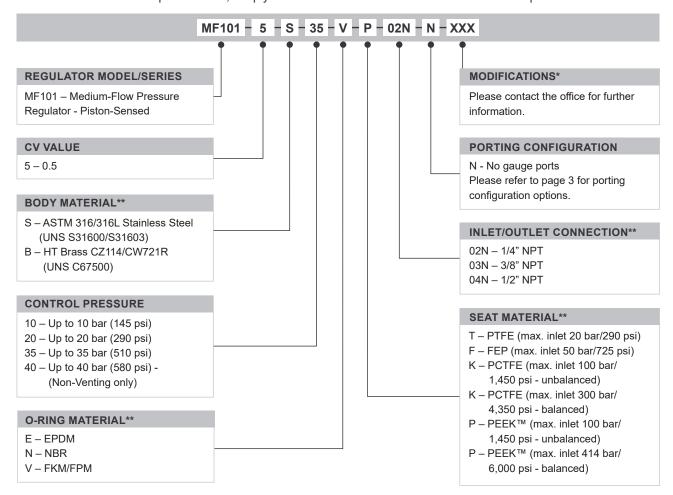
Max Inlet: 414 bar (6,000 psi)

Max Outlet: 40 bar (580 psi)

Cv 0.5

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 please contact the office

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

Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

- +44 (0)1457 899 307
- E sales@pressure-tech.com W www.pressure-tech.com

