MEDIUM-FLOW PRESSURE REGULATOR



● Gas ● Liquid ● Diaphragm ● Piston	 Self- Venting 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).

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 Seat	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

Up to 35 bar (510 psi)

1.2kg (2.4lbs)

150% max. working pressure

In accordance with ANSI/FCI 70-3

SPECIFICATION

Maximum Inlet Pressure		re
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 requirements.

FEATURES AND BENEFITS

LARGE PRECISION- MACHINED SENSING ELEMENT	2 OPTIONAL BALANCED DESIGN	3 LIGHTWEIGHT & COMPACT DESIGN	4 SELF-VENTING OR NON-VENTING
Accurate control of outlet pressures up to 40 bar (580 psi) on non-venting models.	For inlet pressures of up to 414 bar (6,000 psi).	Perfect for when installation space is restricted.	Versatile use for a range of applications.

Outlet Ranges

Seat Leakage

Weight

Design Proof Pressure

oduct 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

DESIGNED, MANUFACTURED AND BUILT IN THE UK



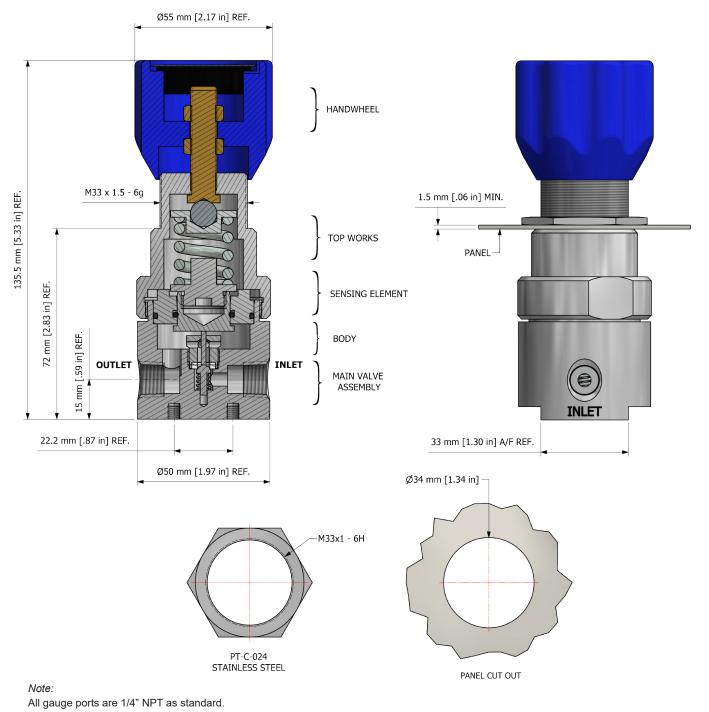
MEDIUM-FLOW PRESSURE REGULATOR



PRESSURE TECH

DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" NPT option - please contact the office for additional connection options.



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 T +44 (0)1457 899 307

E sales@pressure-tech.com

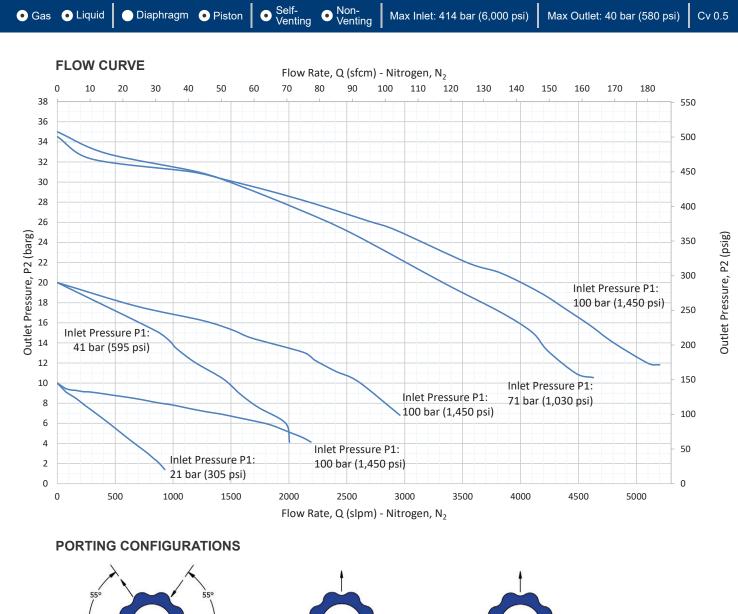
W www.pressure-tech.com

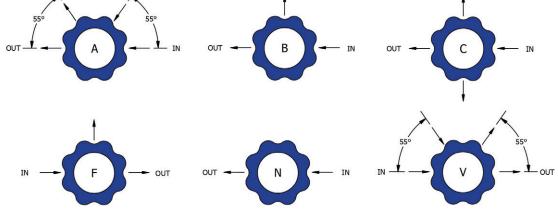
DESIGNED, MANUFACTURED AND BUILT IN THE UK



MEDIUM-FLOW PRESSURE REGULATOR







Note:

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

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 T +44 (0)1457 899 307

1 +44 (0)1457 899 307

E sales@pressure-tech.com

0015 W <u>www.pressure-tech.com</u>



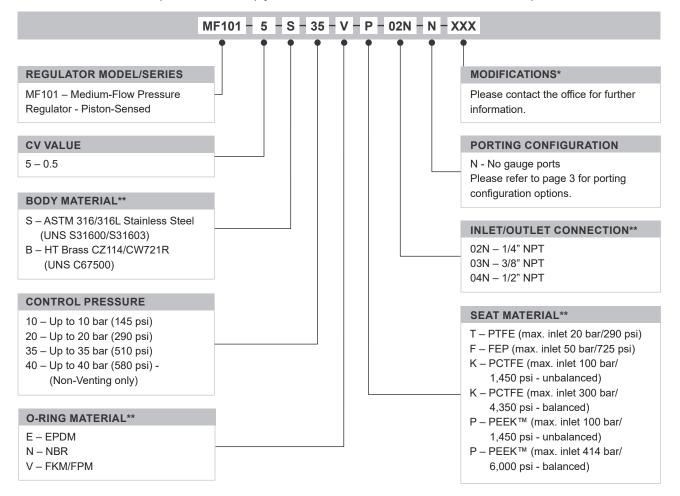
MEDIUM-FLOW PRESSURE REGULATOR



● Gas ● Liquid ● Diaphra	gm 💿 Piston	 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.

DNV BOSDOT PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com

DESIGNED, MANUFACTURED AND BUILT IN THE UK

