

MF-101 Datasheet

MEDIUM-FLOW PRESSURE REGULATOR



Gas Liquid | Diaphragm Piston | Self-Venting Non-Venting | Max Inlet: 414bar (6,000psi) | Max Outlet: 35bar (510psi) | Cv 0.5



INTRODUCING THE MF-101...

The MF-101 is a piston-sensed medium-flow pressure regulator. As standard the MF-101 features an unbalanced main valve with a large precision machined sensing element that controls outlet pressures up to 35bar (510psi) on self-venting models, and up to 40bar (580psi) on non-venting models from a maximum 100bar (1,450psi) inlet pressure.

Alternatively, its optional balanced design with PEEK™ seat enables inlet pressures of up to 414bar (6,000psi) on gas or liquid applications.

SPECIFICATION

| Max Inlet Pressure: | Balanced | Unbalanced |
|---------------------|-------------------|-------------------|
| PEEK™ | 414bar (6,000psi) | 100bar (1,450psi) |
| PCTFE | 300bar (4,350psi) | 100bar (1,450psi) |

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™ or PCTFE |
| Valve Spring | Inconel® X750 |
| Piston | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Handwheel | Nylon |
| 'O'-Ring Seals | FKM / FPM |
| Loading Spring | AISI 302 Stainless Steel (UNS S30200) |

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

FEATURES AND BENEFITS

1 LARGE PRECISION-MACHINED SENSING ELEMENT

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

2 OPTIONAL BALANCED DESIGN

Enables inlet pressures of up to 414bar (6,000psi)

3 LIGHTWEIGHT & COMPACT DESIGN

Perfect for when installation space is restricted.

4 SELF-VENTING 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.



DESIGNED AND BUILT IN THE UK

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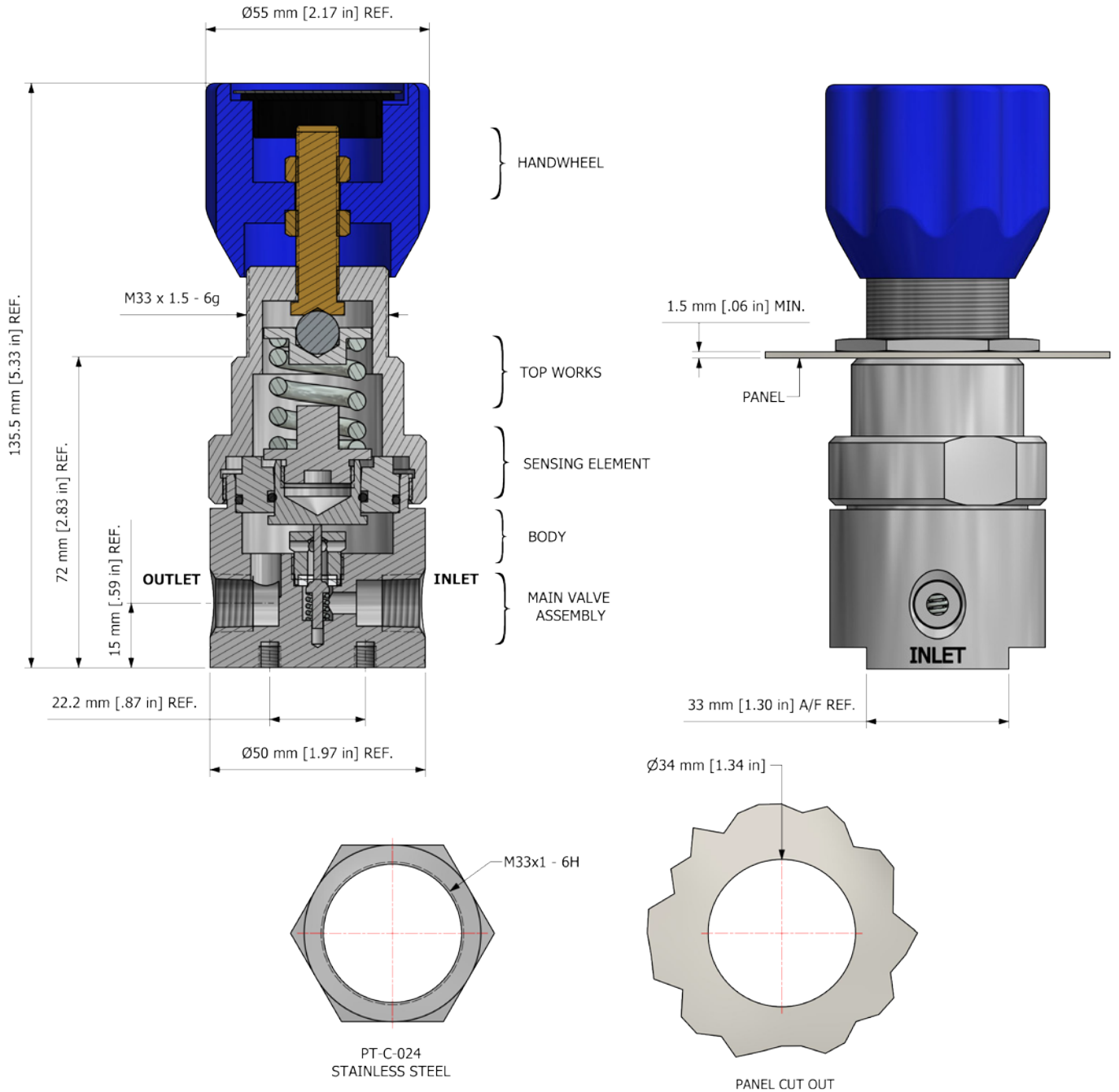
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DRAWINGS AND INSTALLATION DIMENSIONS



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

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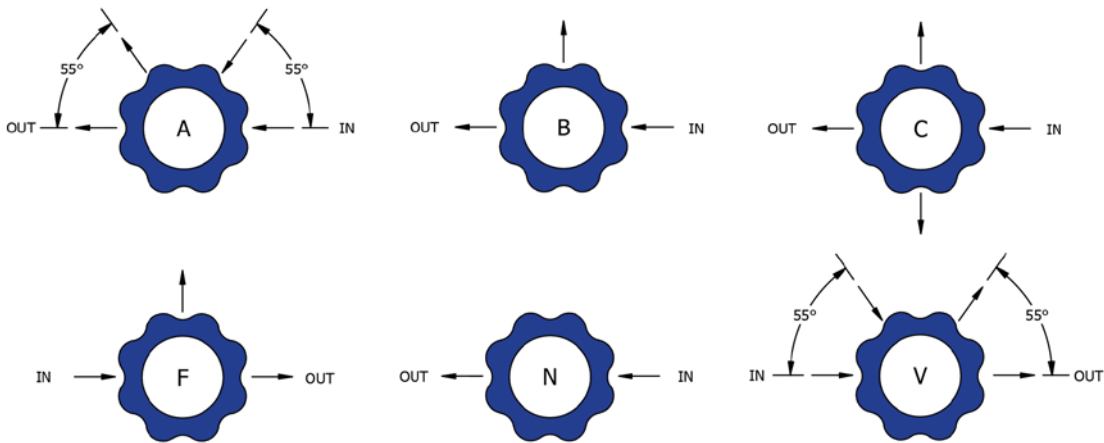


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FLOW CURVE

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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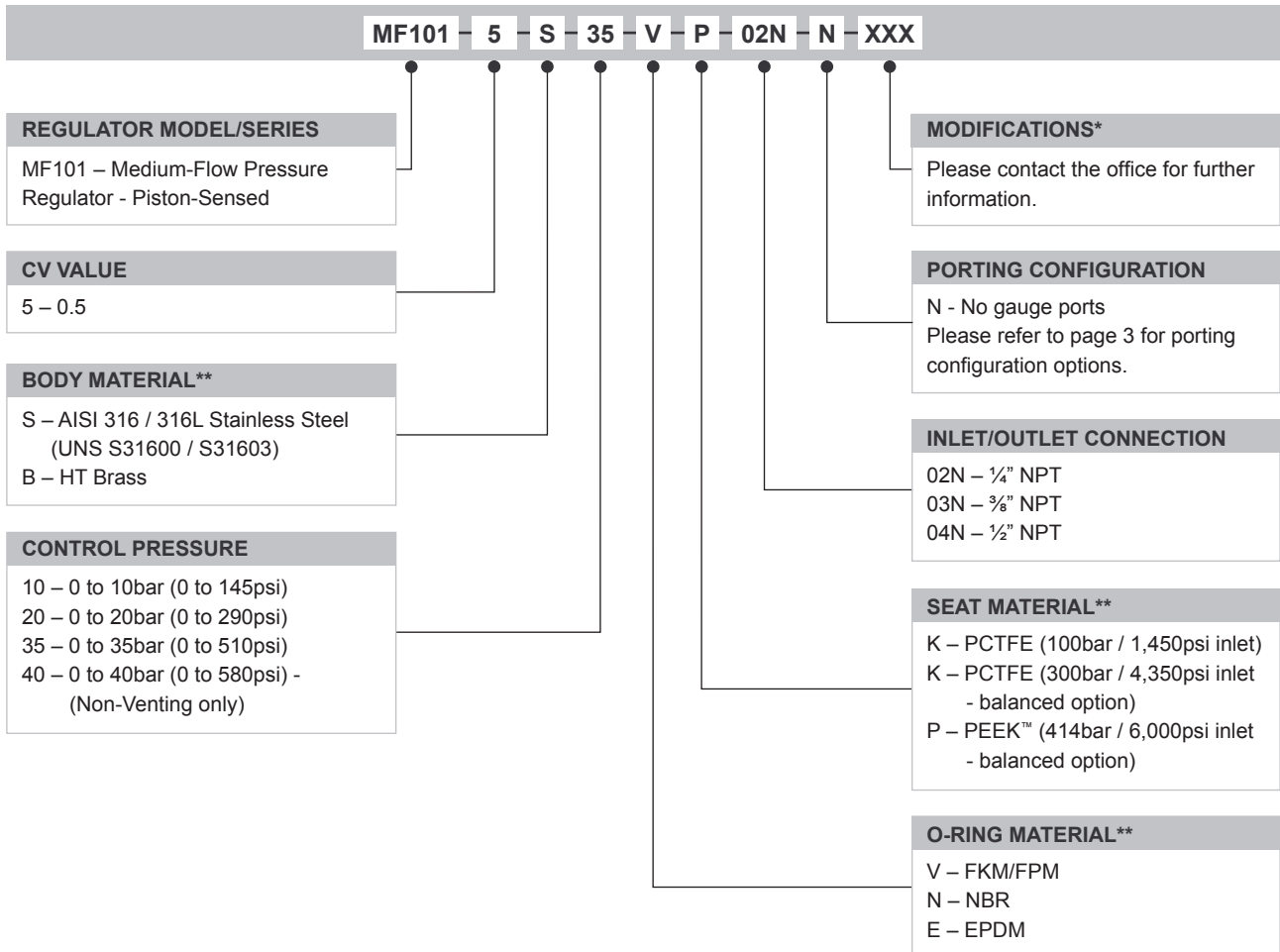
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ORDERING INFORMATION

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



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

Note:
Ancillary equipment also available

TRADEMARKS: PEEK™ is a trademark of Victrex PLC
Incone® is a registered trademark of Inco Alloys International

* Where applicable
** Other materials may be available - please contact the office

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