

# MF401 Datasheet

## MEDIUM-FLOW PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 400 bar (5,800 psi) | Max Outlet: 400 bar (5,800 psi) | Cv 2.0



### INTRODUCING THE MF401...

The MF401 is a versatile piston-sensed non-venting regulator for liquid and gas applications. The liquid version includes a PEEK™ seat, whilst the gas option features PCTFE seating.

The MF401 offers a **balanced main valve** as standard for up to 400 bar (5,800 psi) inlet pressure. An unbalanced option can be offered alternatively for applications with maximum inlet pressures of up to 50 bar (725 psi).

The regulator housing and 'wetted' components are precision machined from 316 Stainless Steel, unless otherwise specified.

### STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and 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	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 (UNS S30100)

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

### SPECIFICATION

Max. Inlet Pressure	Balanced	Unbalanced
PEEK™	400 bar (5,800 psi)	50 bar (725 psi)
PCTFE	400 bar (5,800 psi)	50 bar (725 psi)

Outlet Ranges	Up to 400 bar (5,800 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	5.8kg (12.8lbs)

### FEATURES AND BENEFITS

#### 1 OPTIONAL CONNECTION TYPES

Threaded or flanged connection type options.

#### 2 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

#### 3 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

#### 4 HIGH FLOW COEFFICIENT

Cv 2.0 for higher flow capabilities.

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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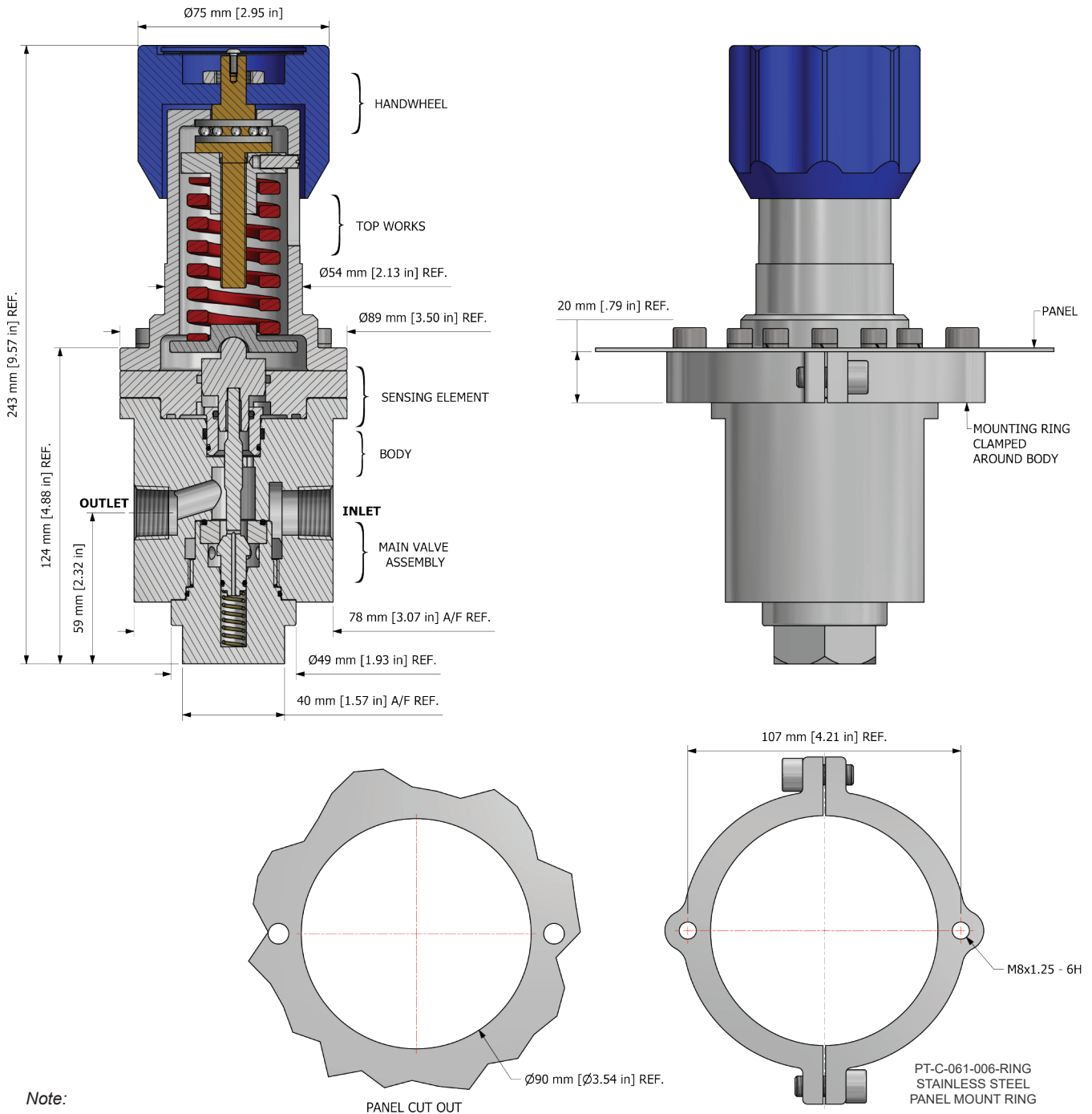
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### DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/2" 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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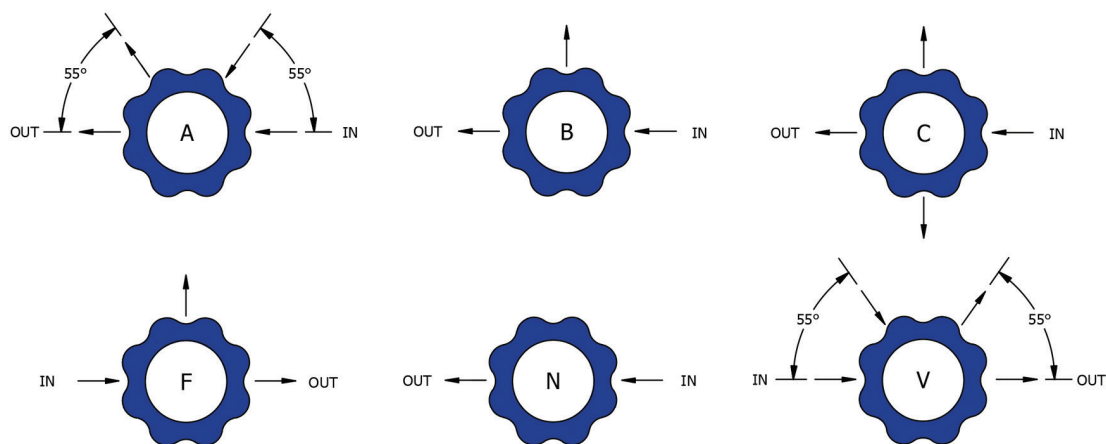


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## FLOW CURVE

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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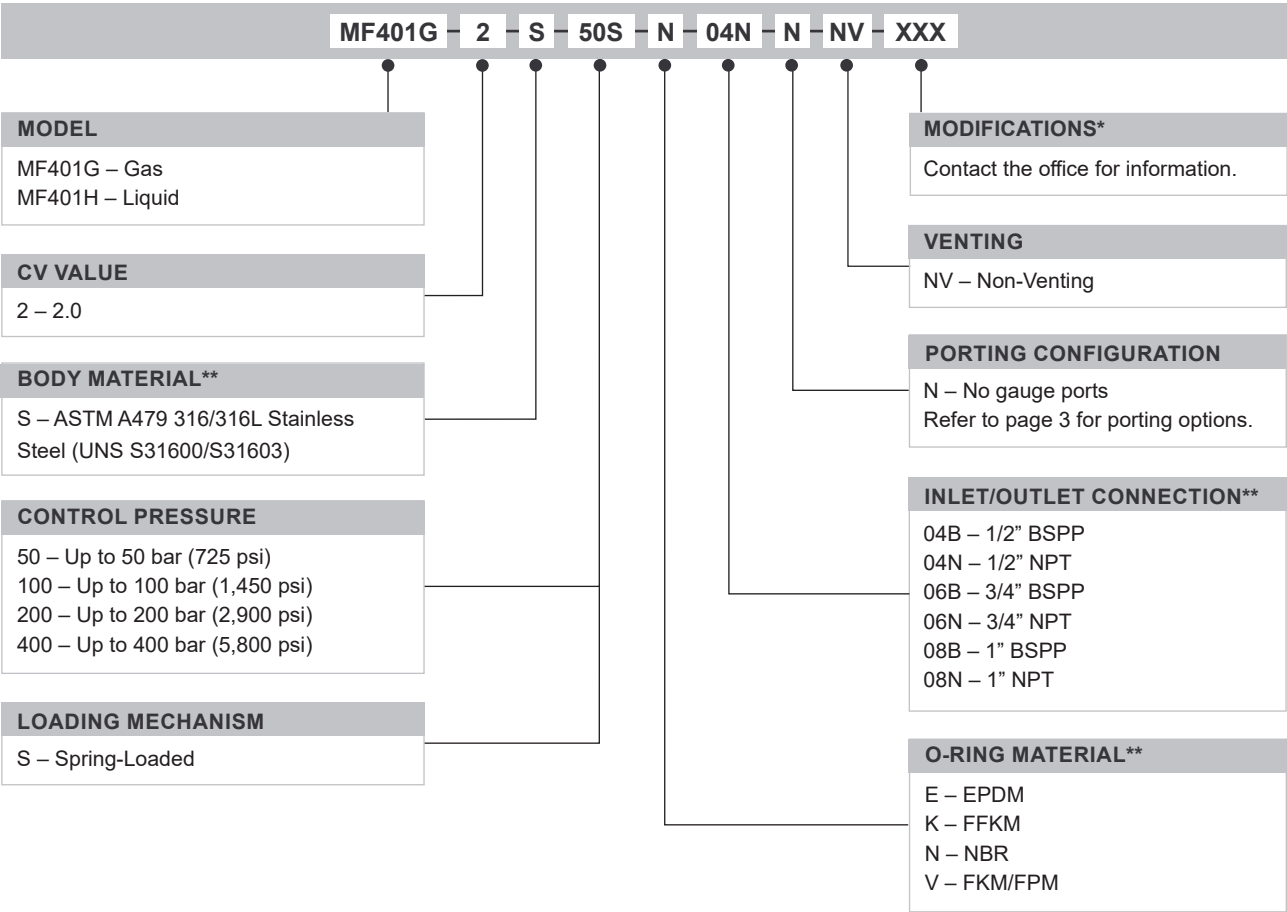
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## ORDERING INFORMATION

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



## OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-MF401-2-B...	Various 'Balanced' options available
Service Kit	SRK-MF401-2-U...	Various 'Unbalanced' options available
Panel Mount Ring	PT-C-061-006-RING	-

*Note:* Ancillary equipment also available

**TRADEMARKS:** Inconel® is a registered trademark of Inco Alloys International

\* Where applicable

\*\* Other connections/materials may be available

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