MINI300 Datasheet

COMPACT & LOW-FLOW PRESSURE REGULATOR

PRESSURE TECH

Gas | Liquid | Diaphragm | Piston | Self-Venting | Non-Venting | Max Inlet: 300 bar (4,350 psi) | Max Outlet: 100 bar (1,450 psi) | Cv 0.06

INTRODUCING THE MINI300...

The MINI300 provides an economical, lightweight and versatile regulator range, designed for customers who want accurate control from a compact unit.

The MINI300 features fully supported ‘sensitive’ pistons with low pressure and high-pressure outlet options. There is also a choice of handwheel or thumbwheel adjustment.

SPECIFICATION

Max. Rated Inlet Pressure	300 bar (4,350 psi)
Outlet Ranges	Up to 100 bar (1,450 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	0.5kg (1.1lbs)

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)
Filter	40 Microns

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

FEATURES AND BENEFITS

1 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

2 OPTIONAL ADJUSTMENT METHODS

Handwheel or thumbwheel adjustment available.

3 COMPACT DESIGN

Perfect for when installation space is restricted.

4 316SS THREADED BONNET

For panel mounting option as standard.

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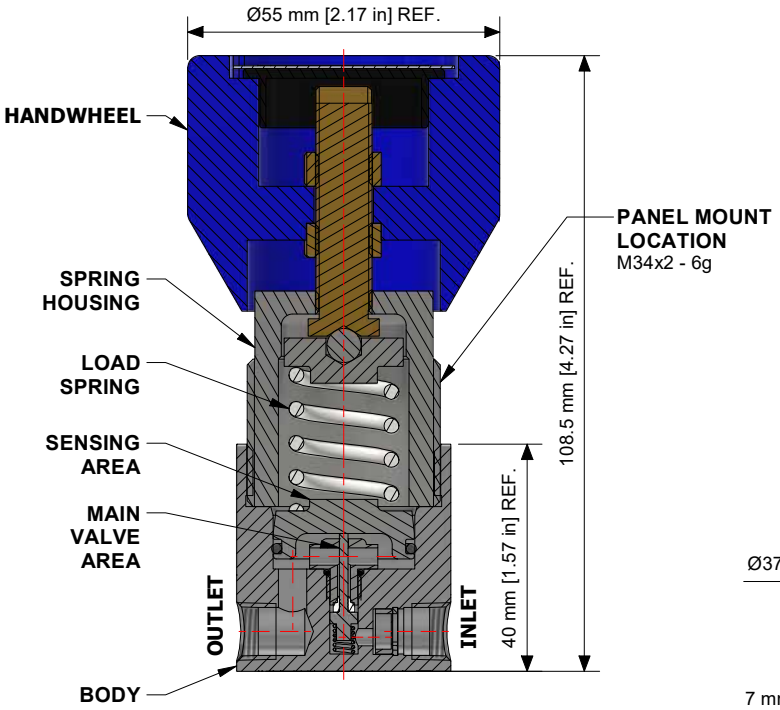
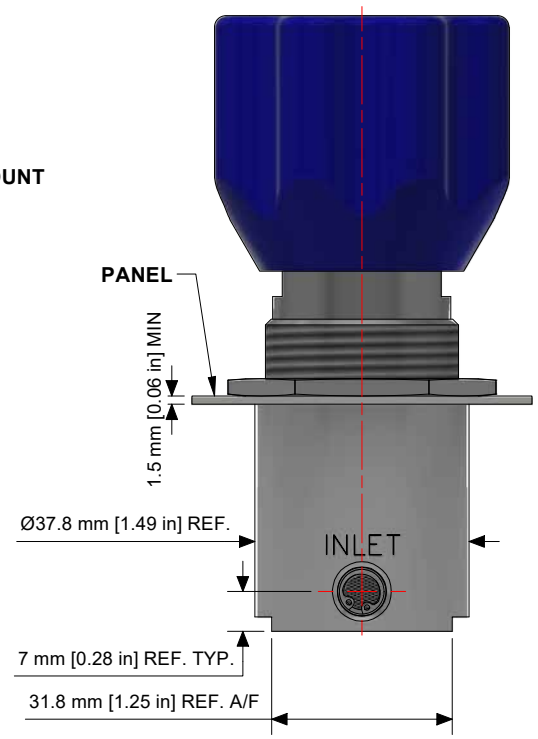
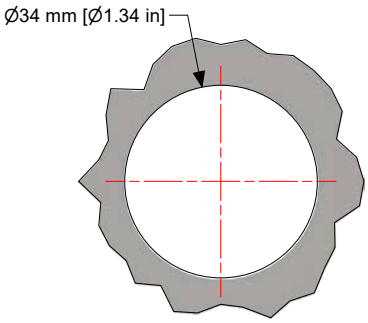
DRAWINGS AND INSTALLATION DIMENSIONS

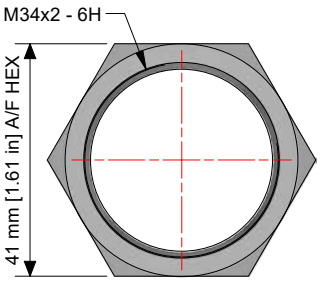
Dimensions shown for 1/8” NPT option and standard configurations only - please contact the office for other options.



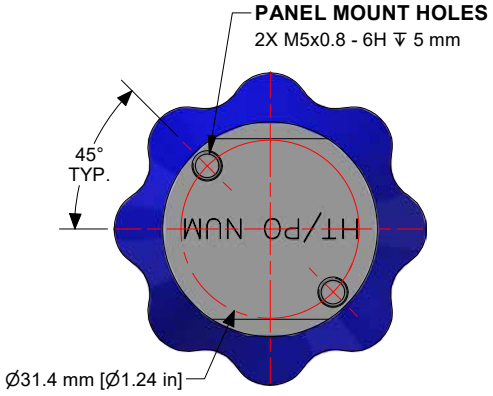




PANEL CUTOUT



PANEL MOUNT RING
(PT-C-024-001)
STAINLESS STEEL



BOTTOM VIEW

Note:

All gauge ports are 1/8” NPT as standard

Position of mounting holes may vary depending on configuration

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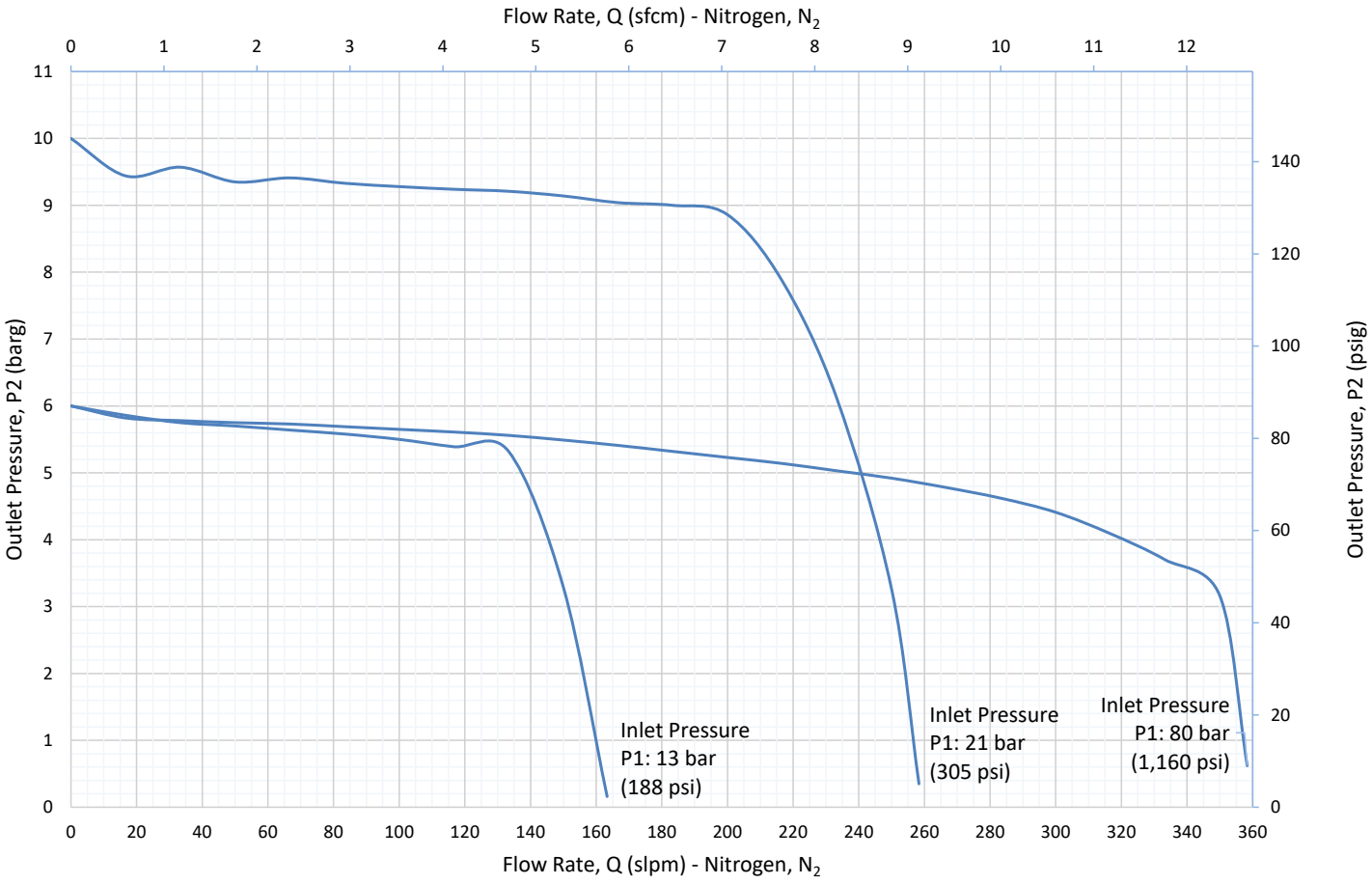
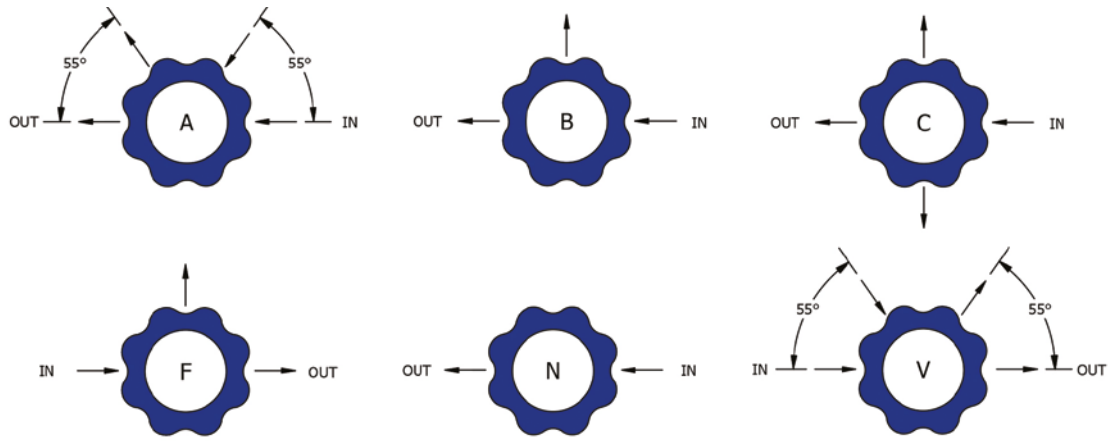
FLOW CURVE



PORTING CONFIGURATIONS



Note:

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

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ORDERING INFORMATION

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

MINI300 – 06 – S – 50 – K – N – XXX

REGULATOR

MINI300

CV VALUE

06 – 0.06

BODY MATERIAL**

S – ASTM A479 316/316L Stainless Steel

CONTROL PRESSURE

2 – Up to 2 bar (29 psi)
4 – Up to 4 bar (58 psi)
10 – Up to 10 bar (145 psi)
20 – Up to 20 bar (290 psi)
50 – Up to 50 bar (725 psi)
100 – Up to 100 bar (1,450 psi)

MODIFICATIONS*

Contact the office for information.

PORTING CONFIGURATION

N - No gauge ports
Refer to page 3 for porting options.

SEAT MATERIAL**

T – PTFE (max. inlet 20 bar/290 psi)
F – FEP (max. inlet 50 bar/725 psi)
K – PCTFE (max. inlet 210 bar/3,045 psi)
P – PEEK™ (max. inlet 300 bar/4,350 psi)

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-MINI300...	Various options available
Panel Mounting Ring	PT-C-024-001	-

Note:
Ancillary equipment also available

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

* Where applicable
** Other connections/materials may be available

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