

AUTO438 Datasheet

PRESSURE REGULATOR FOR HYDROGEN BUSES AND TRUCKS

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 438 bar (6,350 psi) | Max Outlet: 20 bar (290 psi) | Cv 0.25



INTRODUCING THE AUTO438...

The AUTO438 is designed to EC79 standards and is a piston-sensed pressure regulator, for hydrogen fuel cell buses and trucks.

With a **balanced main valve** as standard, the AUTO438 offers stable control of outlet pressures up to 20 bar (290 psi) from a maximum inlet pressure of 438 bar (6,350 psi).

SPECIFICATION

Max. Rated Inlet Pressure	438 bar (6,350 psi)
Outlet Ranges	Up to 20 bar (290 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight (Aluminium Body)	1.8kg (3.97lbs)

FEATURES AND BENEFITS

1 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through the base of the regulator.

2 IN-LINE LEAKAGE SENSE LINE

Easy to connect pipework to sense for H2 leakage, and makes set point anti-tamper proof.

3 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body	Anodised Aluminium T6511 (UNS AW6082)
Main Valve Pin	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Valve Spring	Elgiloy® (UNS R30003)
Piston	ASTM A479 316/316L Stainless Steel
O-Rings	FKM/FPM 90
Loading Spring	ASTM A479 316/316L Stainless Steel
Filter	30 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.

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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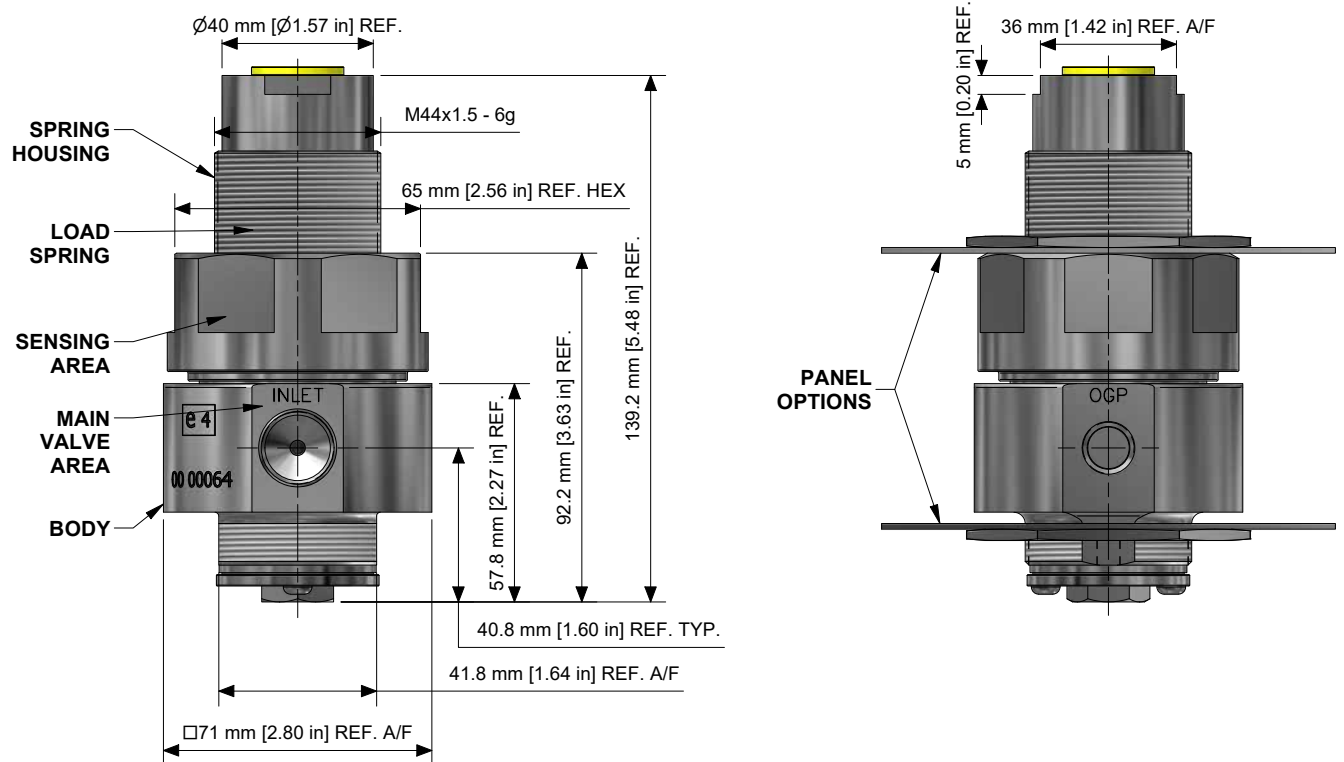
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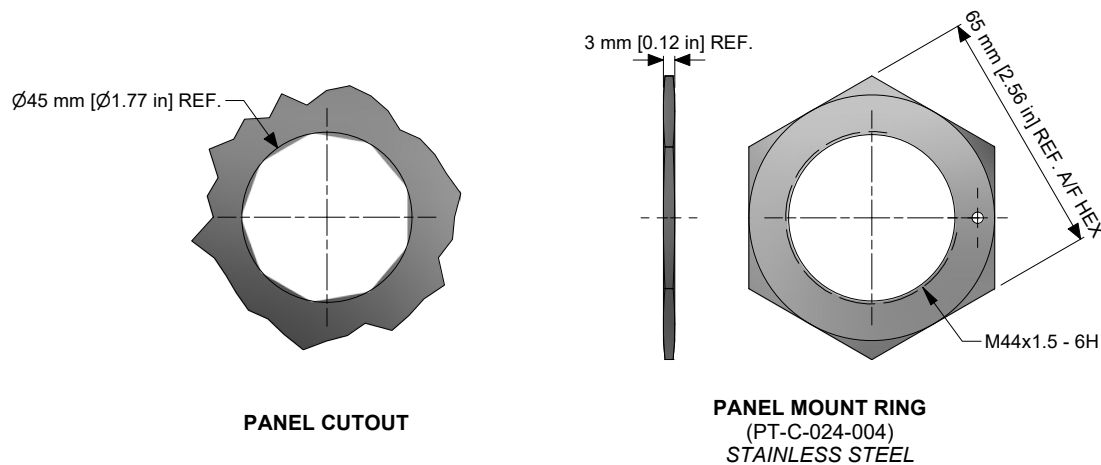
DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for standard configurations only - please contact the office for other options.



MOUNTING CONFIGURATION

Mounting panel is secured between the body and bonnet with a panel mounting nut (see above right and below).



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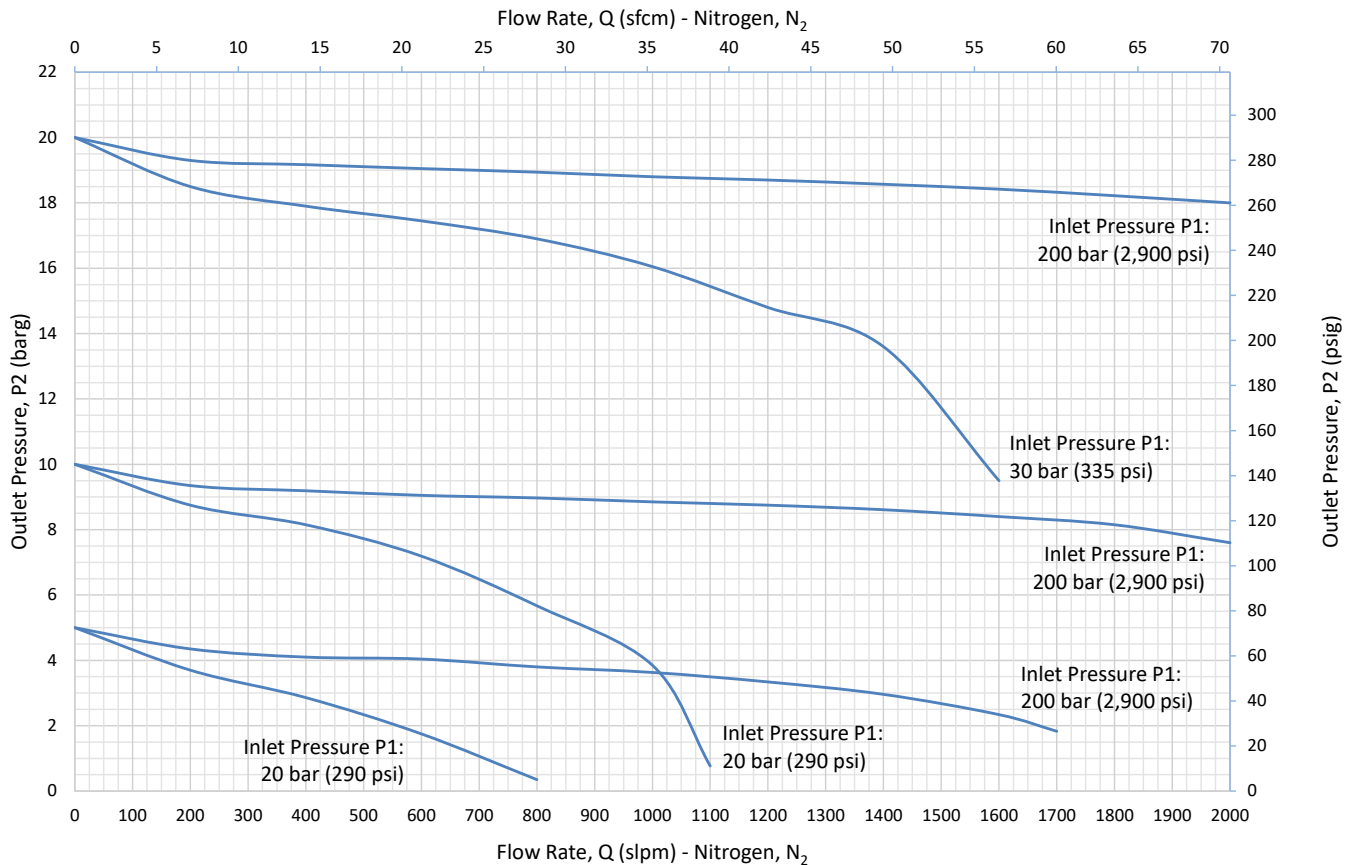
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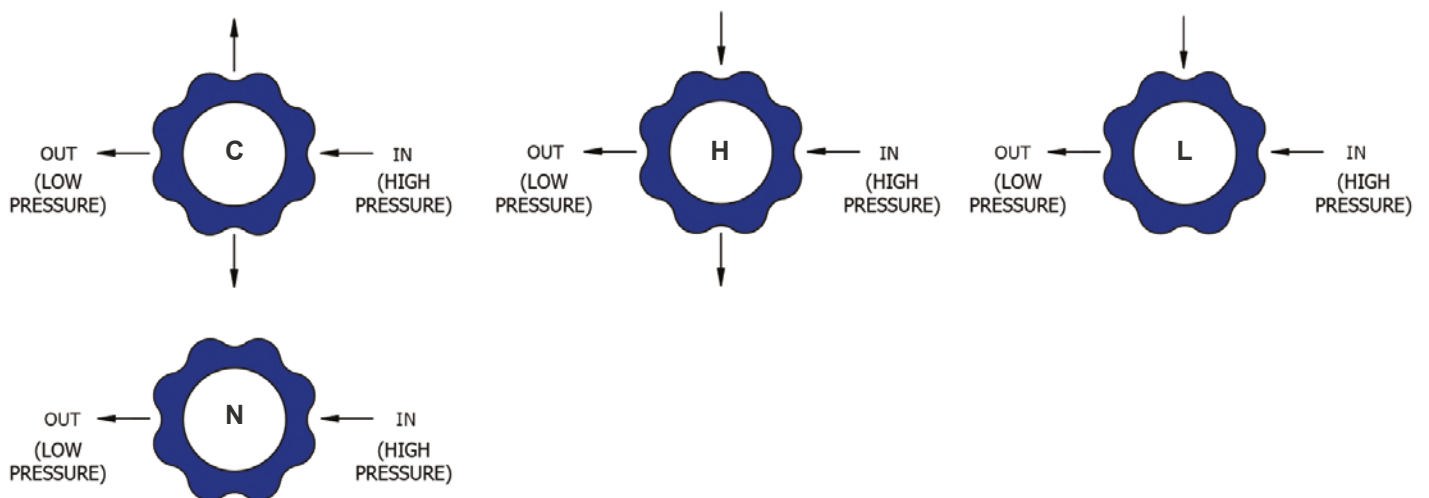
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FLOW CURVE



PORTING CONFIGURATIONS



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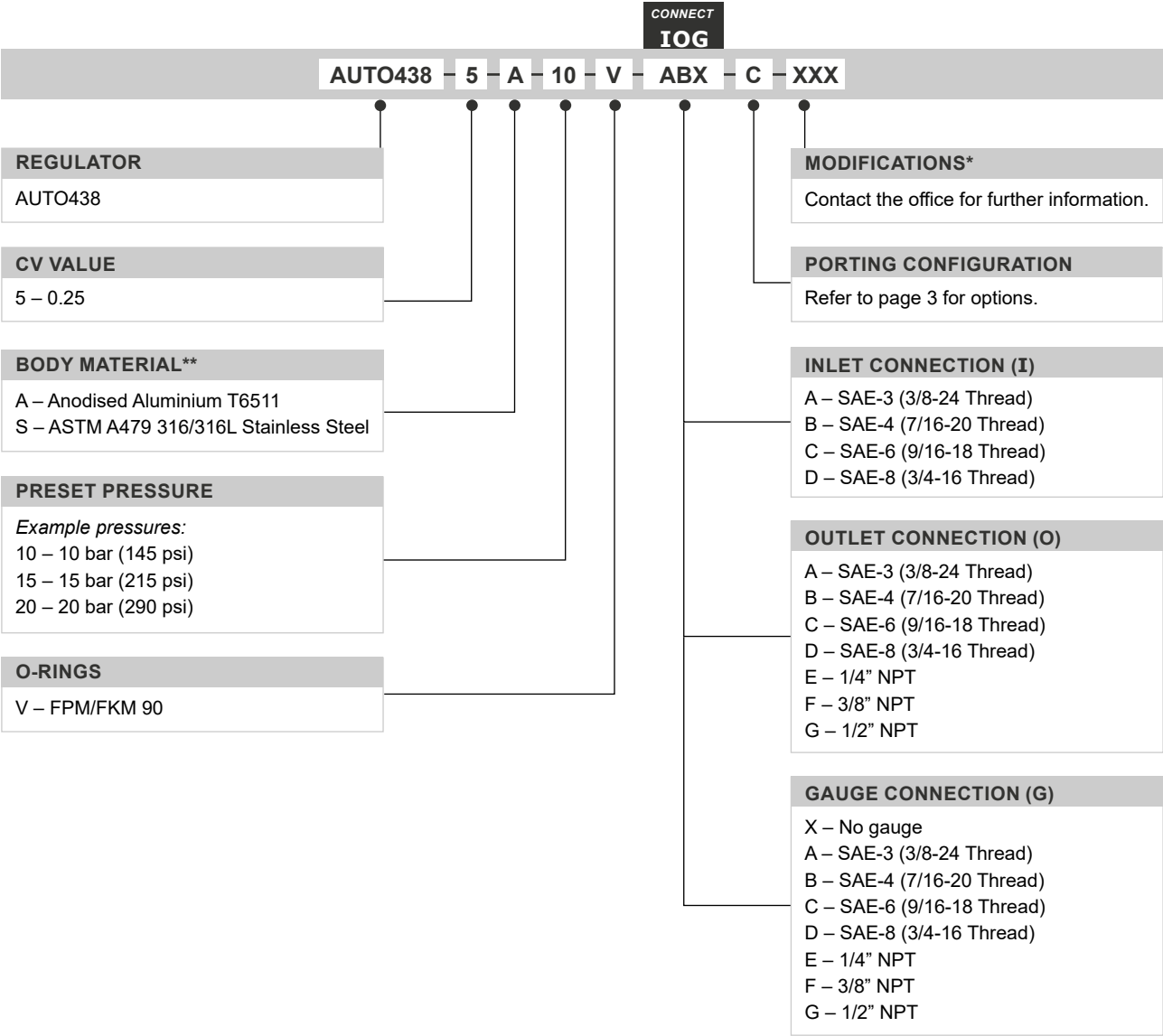
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-AUTO438-05-B...	Various 'Balanced' options available

Note: Ancillary equipment also available

TRADEMARKS: Elgiloy® is a registered trademark of Elgiloy Specialty Metals

* Where applicable
** Other options may be available

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