EC79 APPROVED PRESSURE REGULATOR FOR HYDROGEN FUEL CELL BUSES AND TRUCKS



INTRODUCING THE AUTO438...

The AUTO438 is an EC79/2009 approved pistonsensed pressure regulator, designed specifically for hydrogen fuel cell buses and trucks. During the EC79 testing process, it was put through 100,000 cycles by external certification body, KIWA Nederland B.V. equating to 10 years life time on a typical installation!

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

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)

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



STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body	Anodised Aluminium T6511 (UNS AW6082) Approx. Temperatures: -196°C to 200°C
Main Valve Pin	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) Approx. Temperatures: -196°C to 538°C
Valve Spring	Elgiloy® (UNS R30003) Approx. Temperatures: -196°C to 450°C
Piston	ASTM A479 316/316L Stainless Steel
O-Rings	FKM/FPM 90 Approx. Temperatures: -40°C to 85°C
Loading Spring	ASTM A479 316/316L Stainless Steel
Filter	30 Microns

For the full list of material temperature ranges, please visit <u>www.pressure-tech.com</u>.

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.



To suit users application/set-up.

IN-LINE LEAKAGE SENSE LINE

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

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

+44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com

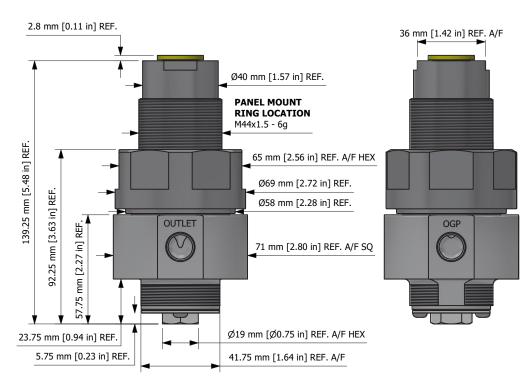
DESIGNED, MANUFACTURED AND BUILT IN THE UK



EC79 APPROVED PRESSURE REGULATOR FOR HYDROGEN FUEL CELL BUSES AND TRUCKS

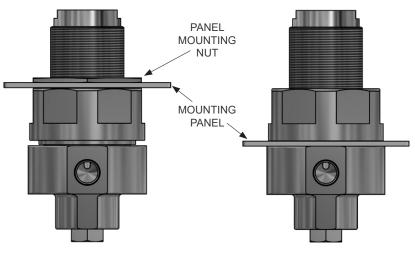
|--|

DRAWINGS AND INSTALLATION DIMENSIONS



MOUNTING CONFIGURATION OPTIONS

1. Bonnet Mounting Mounting panel is secured between the body and bonnet with a panel mounting nut. Head-Work Mounting Mounting panel is secured between the body and head-work.



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

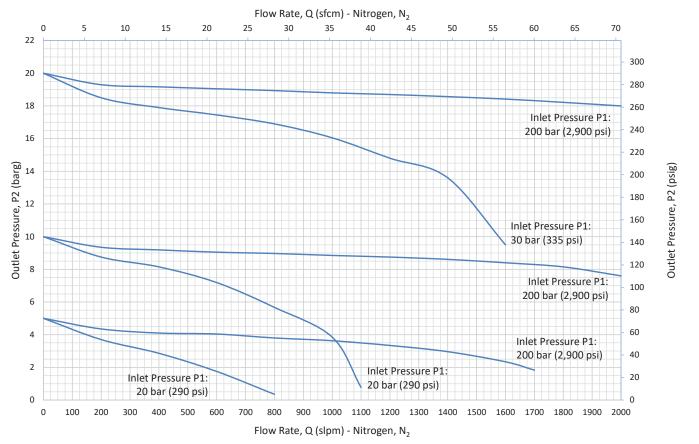
0013 W <u>www.pressure-tech.com</u>

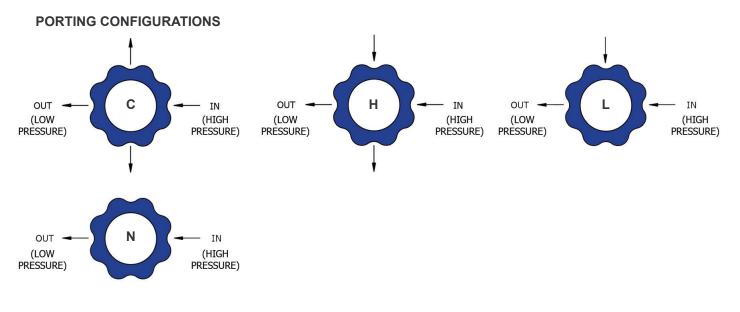


EC79 APPROVED PRESSURE REGULATOR FOR HYDROGEN FUEL CELL BUSES AND TRUCKS

💿 Gas 🕒 Liquid	🔵 Diaphragm 🛛 💿	Piston	Self- Venting	Non- Venting	Max Inlet: 438 bar (6,350 psi)	Max Outlet: 20 bar (290 psi)	Cv 0.5

FLOW CURVE





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

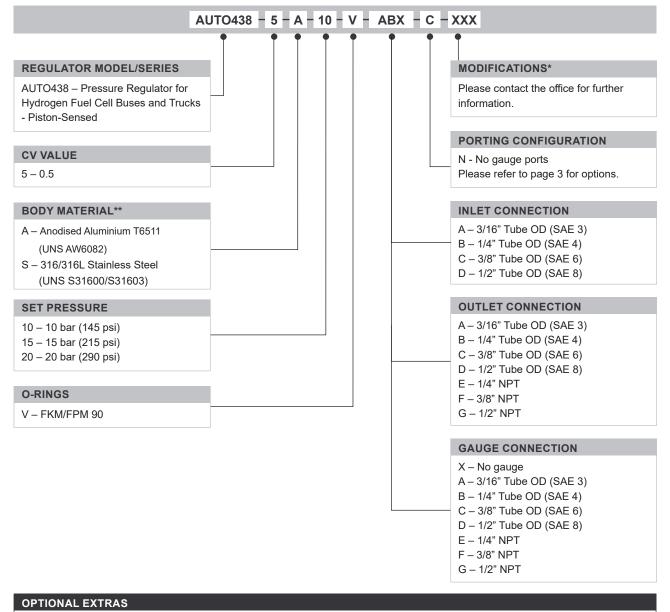


EC79 APPROVED PRESSURE REGULATOR FOR HYDROGEN FUEL CELL BUSES AND TRUCKS

💿 Gas 🔵 Liquid	Diaphragm • Piston	Self- Venting Venting	Max Inlet: 438 bar (6,350 psi)	Max Outlet: 20 bar (290 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-AUTO438-05-B	Various 'Balanced' options available	

Note: Ancillary equipment also available

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

PRESSURE TECH LTD

T +44 (0)1457 899 307

E sales@pressure-tech.com

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

* Where applicable

** Other options 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 BO 9001

0013 W <u>www.pressure-tech.com</u>

DESIGNED, MANUFACTURED AND BUILT IN THE UK

