

AUTO875 Datasheet

PRESSURE REGULATOR FOR
HYDROGEN FUEL CELL VEHICLES



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 875 bar (12,690 psi) | Max Outlet: 20 bar (290 psi) | Cv 0.5

Note: Regulator shown is AUTO438.



EC79
PENDING

INTRODUCING THE AUTO875...

The AUTO875 is a high-pressure, piston-sensed pressure regulator with a solid disk design. It is designed specifically for Hydrogen fuel cell vehicles. With a **balanced main valve** as standard it offers stable control of outlet pressures up to 20 bar (290 psi) from a maximum 875 bar (12,690 psi) inlet pressure.

In addition to critical safety features such as its double o-ring backup, the AUTO875 offers convenient access to the seat cartridge in the base of the regulator for simplified servicing.

SPECIFICATION

Max. Rated Inlet Pressure	875 bar (12,690 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	2.7kg (5.95lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Main Valve Pin	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Seat	Tecasint®
Valve Spring	Elgiloy® (UNS R30003)
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
'O'-Ring Seals	EPDM
Loading Spring	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
Filter	30 Microns

FEATURES AND BENEFITS

1 DOUBLE O-RING

Safety back-up in the event of primary o-ring failure during use.

2 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through the base of the regulator.

3 HIGH PRESSURE

Offers up to 875 bar (12,690 psi) inlet pressure.

4 IN-LINE VENT PORT

For simplified assembly.

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

PRESSURE TECH LTD

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DRAWINGS AND INSTALLATION DIMENSIONS



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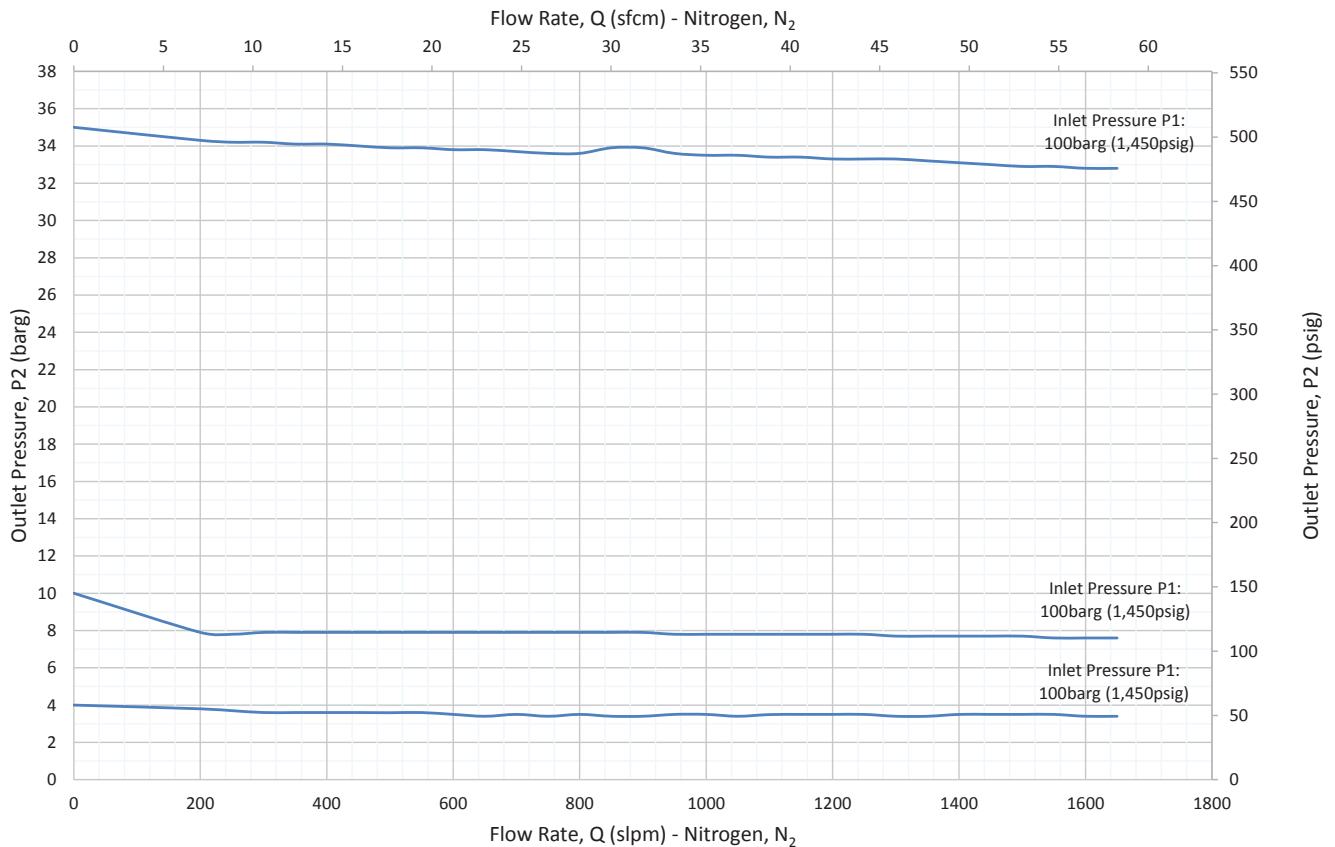
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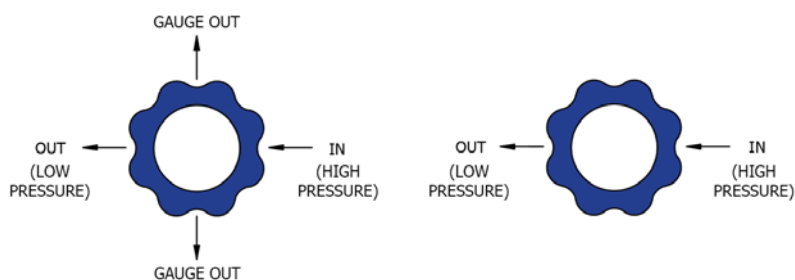
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FLOW CURVE



PORTING CONFIGURATIONS



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ORDERING INFORMATION

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

AUTO875 - 5 - S - 10 - V - AN - XXX	
REGULATOR MODEL/SERIES AUTO875 – Pressure Regulator for Hydrogen Fuel Cell Vehicles - Piston-Sensed	MODIFICATIONS* Please contact the office for further information.
CV VALUE 5 – 0.5	CONNECTION SIZE** A – ¼" inlet, ¼" outlet & ¼" gauge B – ⅜" inlet, ⅜" outlet & ¼" gauge C – ⅜" inlet, ½" outlet & ¼" gauge D – ½" inlet, ½" outlet & ¼" gauge E – ¾" inlet, ¼" outlet & ¼" gauge F – ¼" inlet, ¼" outlet & no gauge G – ⅜" inlet, ⅜" outlet & no gauge H – ⅜" inlet, ½" outlet & no gauge I – ½" inlet, ½" outlet & no gauge J – ¾" inlet, ¼" outlet & no gauge
BODY MATERIAL ** S – AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)	CONNECTION TYPE** N – NPT S – SAE Straight Thread inlet
SET PRESSURE 10 – 10 bar (145 psi) 15 – 15 bar (215 psi) 20 – 20 bar (290 psi)	
O-RINGS E – EPDM V – FKM / FPM	

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-MF101-05-B...	Various 'Balanced' options available

Note:
Ancillary equipment also available

TRADEMARKS: Inconel® is a registered trademark of Inco Alloys International
Tecasin® is a registered trademark of Ensinger GmbH

* Where applicable

** Other options may be available - please contact the office

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