

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.



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 and Bonnet | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Main Valve Pin | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Seat | Tecasint® |
| Valve Spring | Inconel® X750 |
| Piston | AISI 316 / 316L Stainless Steel (UNS S31600 / S31603) |
| Handwheel | Nylon |
| 'O'-Ring Seals | EPDM |
| Loading Spring | AISI 302 Stainless Steel (UNS S30200) |
| Filter | 40 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 POSITIONABLE VENT PORT

Positionable vent port offers 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

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DRAWINGS AND INSTALLATION DIMENSIONS



Note:

All gauge ports are 1/4" NPT as standard.

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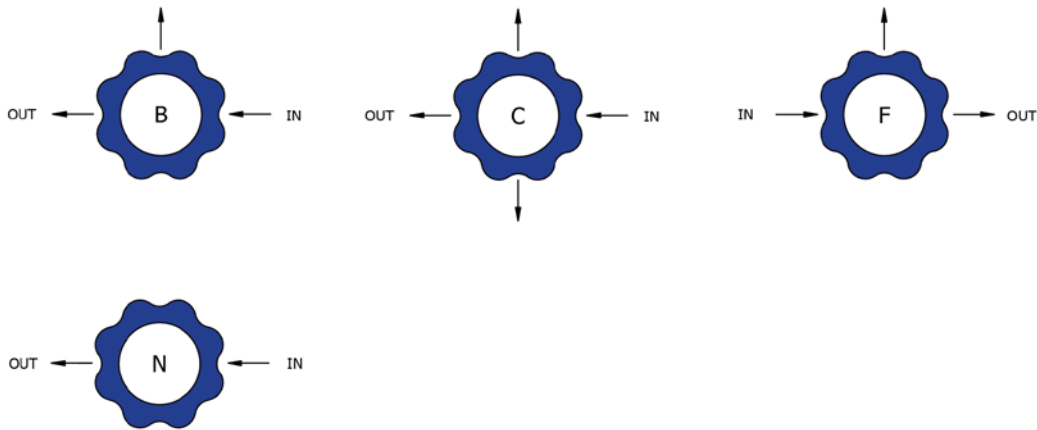


Gas Liquid | Diaphragm Piston | Self-Venting Non-Venting | Max Inlet: 875 bar (12,690 psi) | Max Outlet: 20 bar (290 psi) | Cv 0.5

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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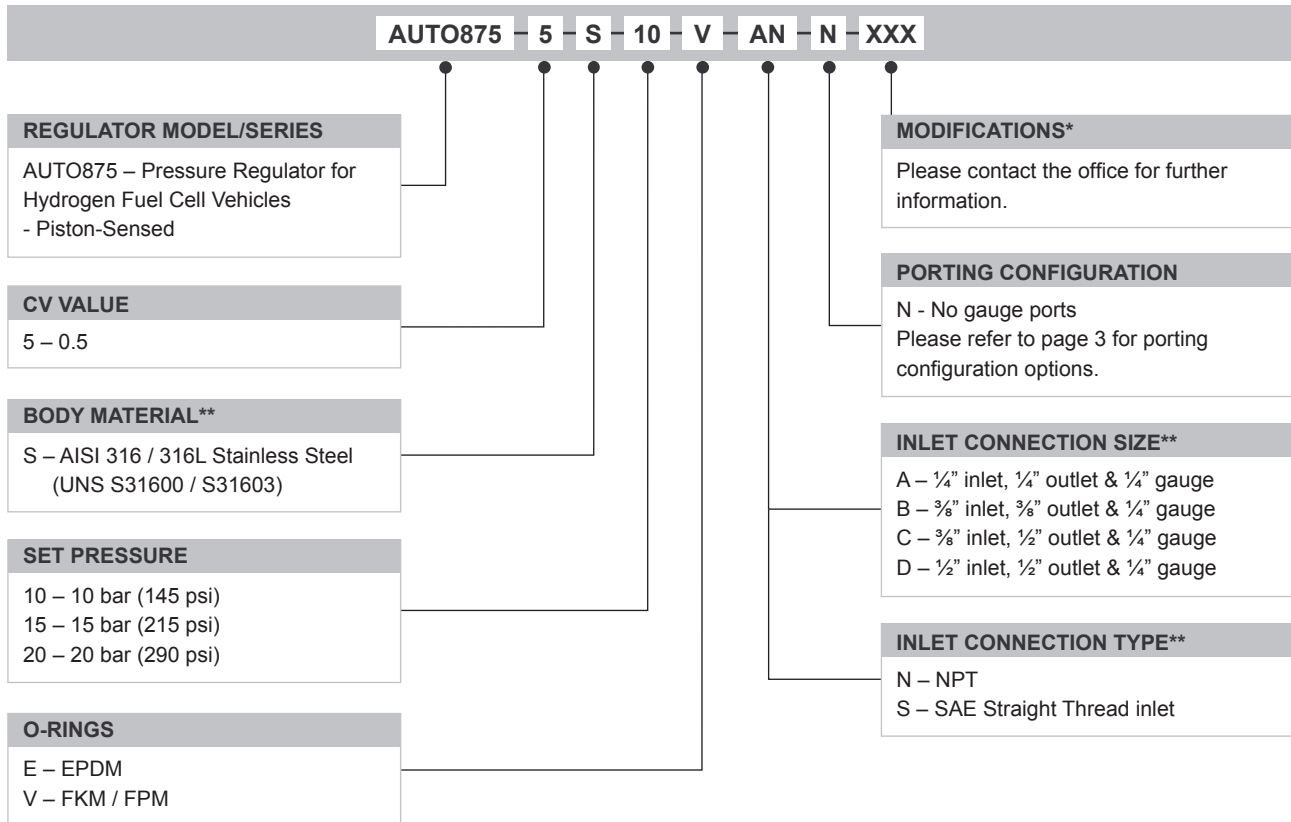
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ORDERING INFORMATION

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



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

Note:
Ancillary equipment also available

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* Where applicable

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

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