PRESSURE REGULATOR FOR HYDROGEN PASSENGER VEHICLES













Max Inlet: 875 bar (12,690 psi)

Max Outlet: 100 bar (1,450 psi)

Cv 0.5



INTRODUCING THE H875...

The H875 is a piston-sensed pressure regulator, designed specifically for hydrogen passenger vehicles. Its two-stage design offers accurate pressure control through two stages of pressure reduction.

With a balanced main valve as standard, it offers stable control of outlet pressures up to 100 bar (1,450 psi) from a maximum 875 bar (12,690 psi) inlet pressure.

SPECIFICATION

Max. Rated Inlet Pressure	875 bar (12,690 psi)
Outlet Ranges	Up to 100 bar (1,045 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	Aluminium 1.5kg / Stainless Steel 3.5kg
Hydrogen Service Level	H35 or H70

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	Aluminium T6511 (UNS AW6082) or ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Seat	Vespel®
Valve Spring	Elgiloy® (UNS R30003)
Sensor	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
O-Rings	FKM/FPM (Viton)
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.

FEATURES AND BENEFITS

TWO-STAGE **DESIGN**

Accurate pressure control through two stages of pressure reduction.

COMPACT 2 COINT DESIGN

Perfect for when installation space is restricted.

BALANCED MAIN VALVE

For improved control across the pressure range.

1 DUAL **FILTRATION**

Offers excellent protection to sensitive internal components.

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 REGULATOR FOR HYDROGEN PASSENGER VEHICLES













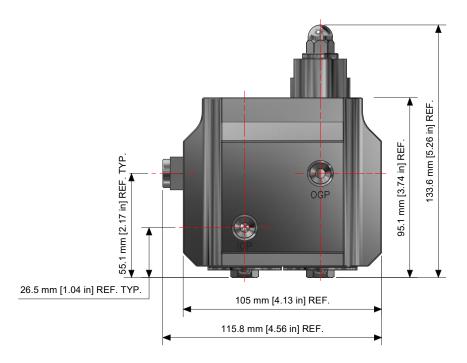
Max Inlet: 875 bar (12,690 psi)

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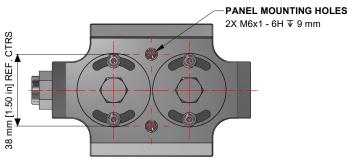
Cv 0.5

DRAWING AND INSTALLATION DIMENSIONS

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







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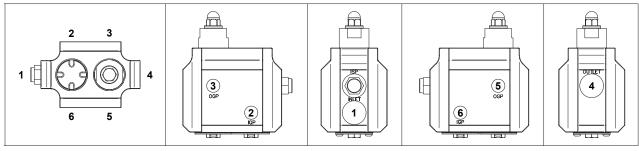
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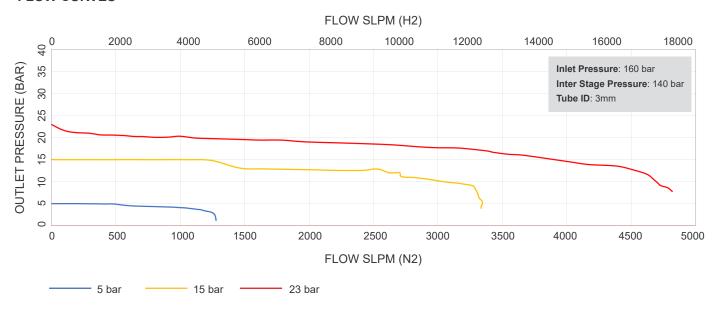
PORT POSITIONS

Use 'ORDERING INFORMATION' on page 4 to select connection size and type for each port position.



- 1. Inlet
- 2. Inlet gauge port
- 3. Outlet gauge port
- 4. Outlet
- 5. Outlet gauge port
- 6. Inlet gauge port
- 5. Outlet gauge port 2. Inlet gauge port 1. Inlet 3. Outlet gauge port
 - 6. Inlet gauge port
- 4. Outlet

FLOW CURVES



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• Gas Liquid

Diaphragm • Piston



Non-Venting

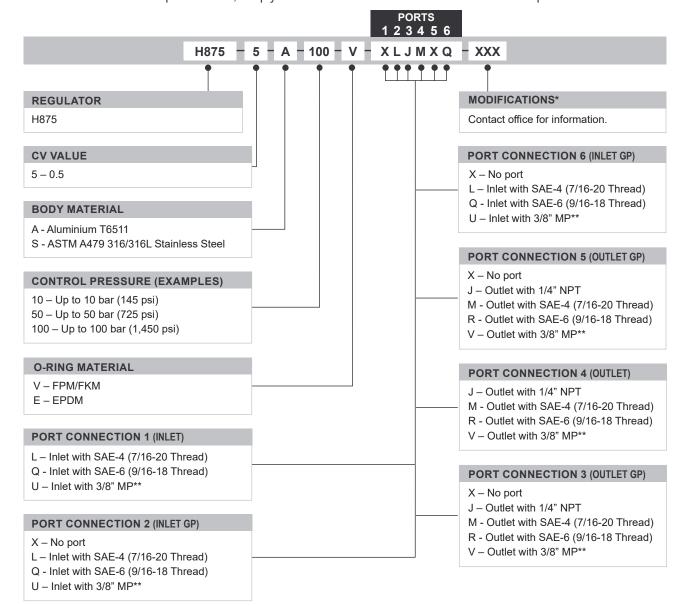
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Cv 0.5

ORDERING INFORMATION

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



OPTIONAL EXT	RAS	
	PART NUMBER	DESCRIPTION
Service Kit	SRK-H875-T-5-A-10-V	H875 service kit.
Note: Ancillary e	quipment also available	

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

- * Where applicable
- ** Only available with 316/316L stainless steel body material

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