PRESSURE REGULATOR FOR HYDROGEN PASSENGER VEHICLES

• Gas	Liquid	Diaphragm •	Piston	<ul> <li>Self- Venting</li> </ul>	<ul> <li>Non- Venting</li> </ul>	Max Inlet: 875 bar (12,690 psi)	Max Outlet: 100 bar (1,450 psi)	Cv 0.5
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#### **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	

### 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 <sup>®</sup> (UNS R30003)		
Sensor	ASTM A479 316/316L Stainless Steel		
3611301	(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.

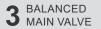
## FEATURES AND BENEFITS

1 TWO-STAGE DESIGN

> Accurate pressure control through two stages of pressure reduction.



Perfect for when installation space is restricted.



For improved control across the pressure range.

4 DUAL FILTRATION

Offers excellent protection to sensitive internal components.

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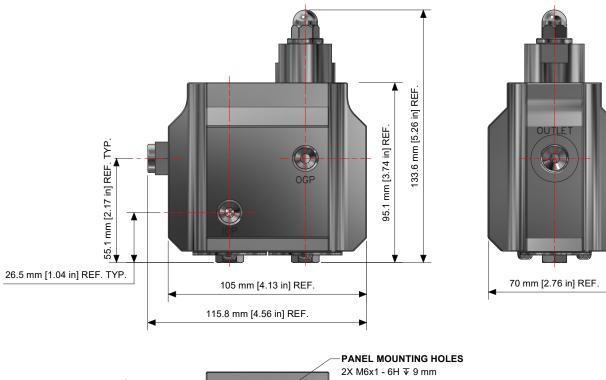


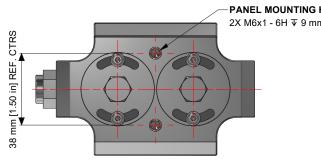
PRESSURE REGULATOR FOR HYDROGEN PASSENGER VEHICLES



### DRAWING AND INSTALLATION DIMENSIONS

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





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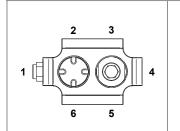


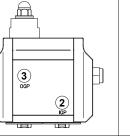
PRESSURE REGULATOR FOR HYDROGEN PASSENGER VEHICLES

• Gas Liquid Diaphragm • Piston	<ul> <li>Self-</li> <li>Venting</li> <li>Venting</li> </ul>	Max Inlet: 875 bar (12,690 psi)	Max Outlet: 100 bar (1,450 psi)	Cv 0.5
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### PORT POSITIONS

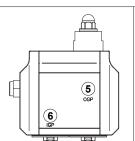
Use 'ORDERING INFORMATION' on page 4 to select connection size and type for each port position.

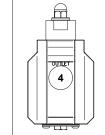






1. Inlet





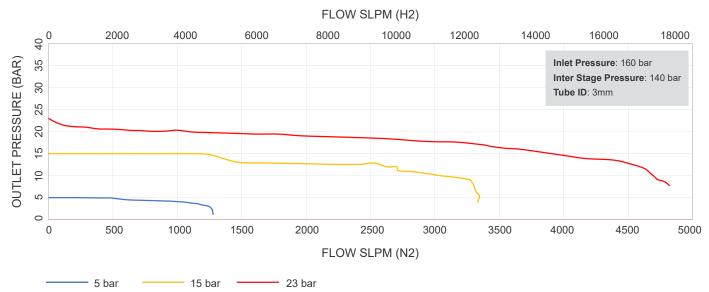
1. Inlet

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

5. Outlet gauge port 6. Inlet gauge port

4. Outlet





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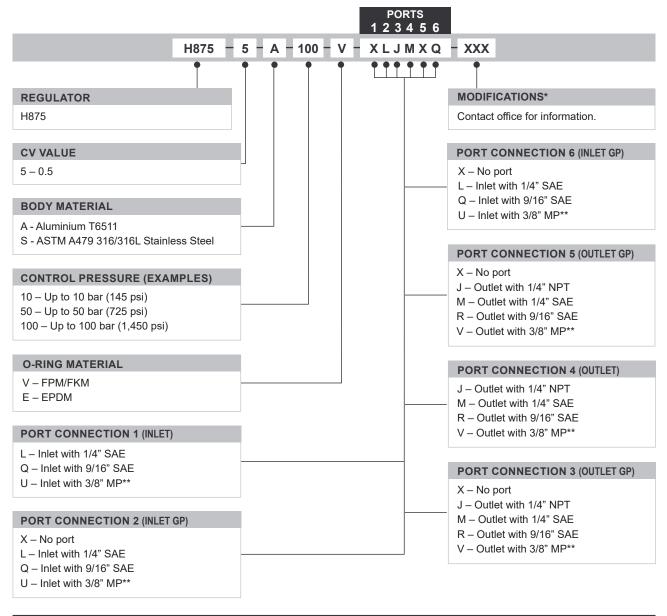


PRESSURE REGULATOR FOR HYDROGEN PASSENGER VEHICLES

Gas Liquid Diaphragm • Piston Self- Venting Ventirg	Max Inlet: 875 bar (12,690 psi) Max Outlet: 100 bar (1,450 psi) Cv 0.5
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### **ORDERING INFORMATION**

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



OP.	τιοναι	

	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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