

A875 Datasheet

PRESSURE REGULATOR FOR HYDROGEN VEHICLES

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 875 bar (12,690 psi) | Max Outlet: 30 bar (435 psi) | Cv 0.35 / 0.5



INTRODUCING THE A875...

The A875 is a single-bodied regulator that features mechanical pressure reduction paired with a state-of-the-art proportional control valve. This ensures precise gas flow management, essential for optimising hydrogen combustion engines.

The integrated pressure relief valve enhances safety and operational reliability in high-pressure systems. It also features an integrated solenoid operated outlet isolation valve with KOSTAL MLK1.2 2-pin coding A plugs on both proportional and solenoid valves for easy integration into automotive wiring systems.

SPECIFICATION

| | |
|---------------------------|----------------------------------|
| Max. Rated Inlet Pressure | 875 bar (12,690 psi) |
| Outlet Ranges | Up to 30 bar (435 psi) |
| Design Proof Pressure | 150% max. working pressure |
| Seat Leakage | In accordance with ANSI/FCI 70-3 |
| Weight | 2.4kg (5.3lbs) |
| Hydrogen Service Level | H35 or H70 |

STANDARD MATERIALS OF CONSTRUCTION

| PART | MATERIALS |
|-----------------|---|
| Body and Bonnet | Aluminium 6082T6 (UNS A96082) or ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) |
| Main Valve Pin | ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) |
| Seat | Acetal (POM) |
| Valve Spring | Elgiloy® (UNS R30003) |
| Sensor | ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) |
| O-Rings | FPM/FKM Low Temp & AED (Viton) |
| Filter | 10 and 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 ELECTRONIC VALVES

For easy integration into automotive wirings systems.

2 INTEGRATED PRV

Enhances the safety in the event of downstream over pressure.

3 BALANCED MAIN VALVE

For improved control across the pressure range.

4 INTEGRATED 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.



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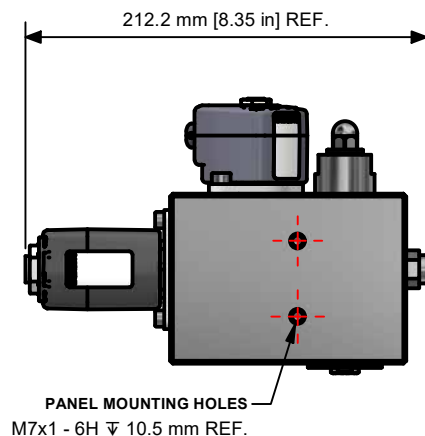
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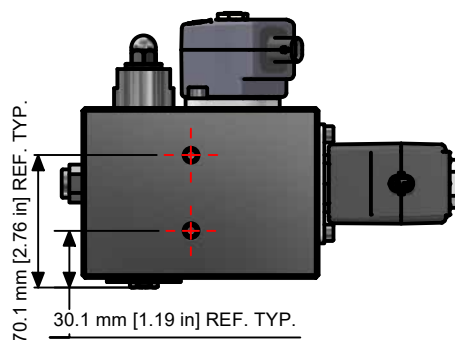
DRAWING AND INSTALLATION DIMENSIONS

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

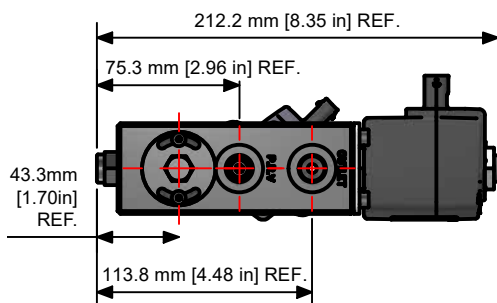
Side View



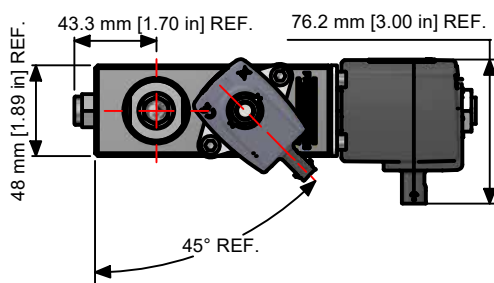
Side View



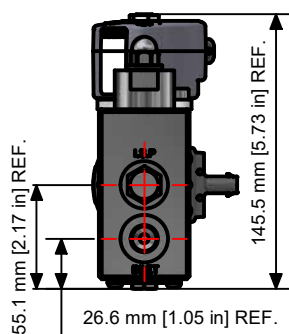
Base View



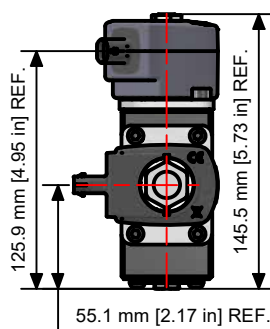
Top View



Front View



Back View



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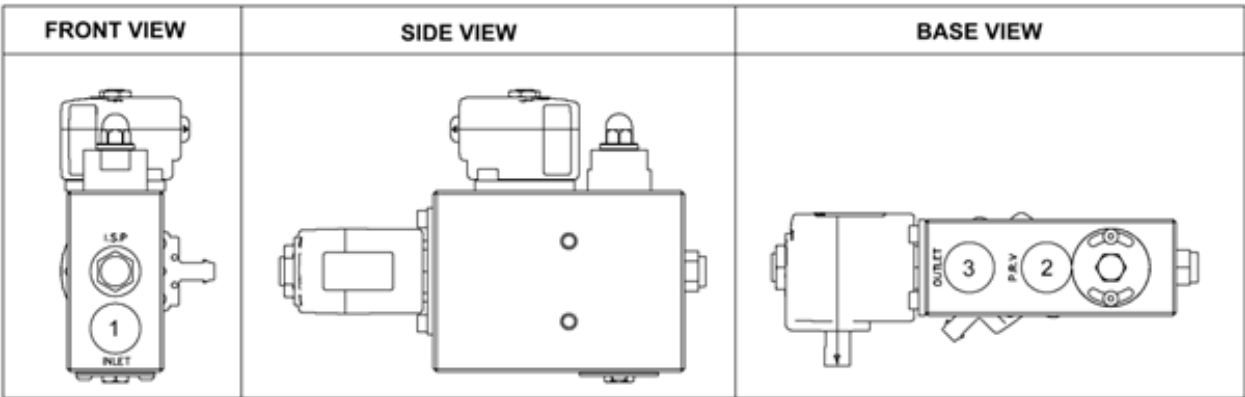
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PORT POSITIONS

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



1. Inlet

2. Pressure Relief Valve
3. Outlet

FLOW CURVE

Please contact the office for further information.

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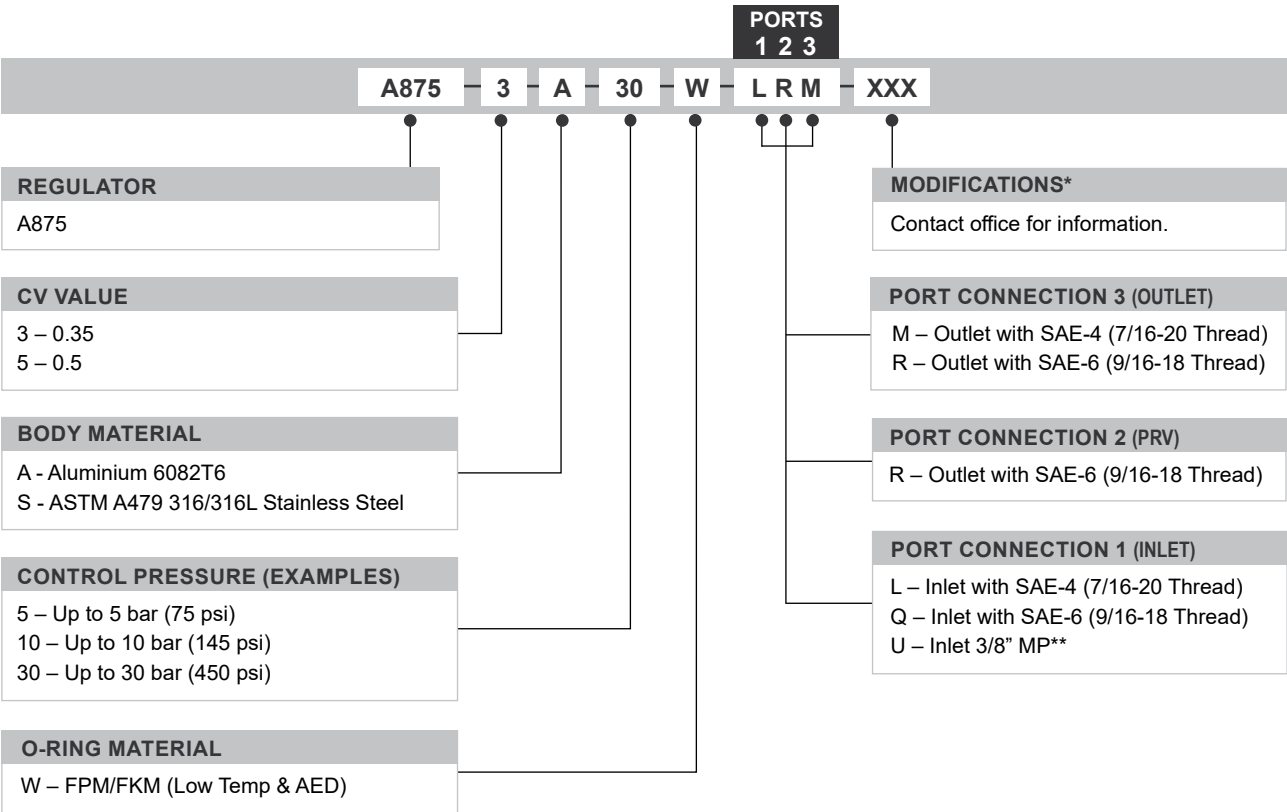
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

| | PART NUMBER | DESCRIPTION |
|-------------|-------------|-------------------|
| Service Kit | SRK-A875... | A875 service kit. |

Note: Ancillary equipment also available

* Where applicable

** Only available with 316/316L stainless steel body material

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