PRESSURE REGULATOR FOR HYDROGEN FUEL CELL FORKLIFT TRUCK APPLICATIONS















Max Inlet: 438 bar (6,350 psi)

Max Outlet: 20 bar (290 psi)

Cv 0.06



INTRODUCING THE LW438...

The LW438 is a lightweight, piston-sensed regulator, designed specifically for hydrogen fuel cell forklift truck applications. It's body is constructed from Aluminium Alloy, offering a lightweight design with a weight of just 425g.

With a balanced main valve as standard, the LW438 offers stable control of outlet pressures up to 20 bar (290 psi) from a maximum 438 bar (6,350 psi) inlet pressure.

SPECIFICATION

Max. Rated Inlet Pressure	438 bar (6,350 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
Operating Temperatures	-30°C to +70°C
Weight	0.43kg (0.9lbs)

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	Aluminium Alloy (AW6082)
Main Valve Pin	AISI 316/316L Stainless Steel
	(UNS S31600/S31603)
Seat	Devlon® X100 / PCTFE
Valve Spring	Inconel® X750
Piston	AISI 316 / 316L Stainless Steel (UNS S31600 / S31603)
O-Rings	NBR
Loading Spring	Alloy Steel
Filter	20 Microns

- Pressure regulator rating may be limited by connection type, Cv and/or seat material
- Operating temperature range is provided as a guide only

FEATURES AND BENEFITS

1 TARGETED DESIGN

> The LW438 was designed specifically for H2 forklift truck applications.

2 LIGHTWEIGHT

Aluminium body provides users with a lightweight pressure control solution.

PISTON SENSING **ELEMENT**

> Perfect for use in challenging conditions.

BALANCED MAIN VALVE DESIGN

> Greater control across the pressure range.

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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PRESSURE REGULATOR FOR HYDROGEN FUEL CELL FORKLIFT TRUCK APPLICATIONS



• Gas Liquid

DiaphragmPiston



Non-Venting

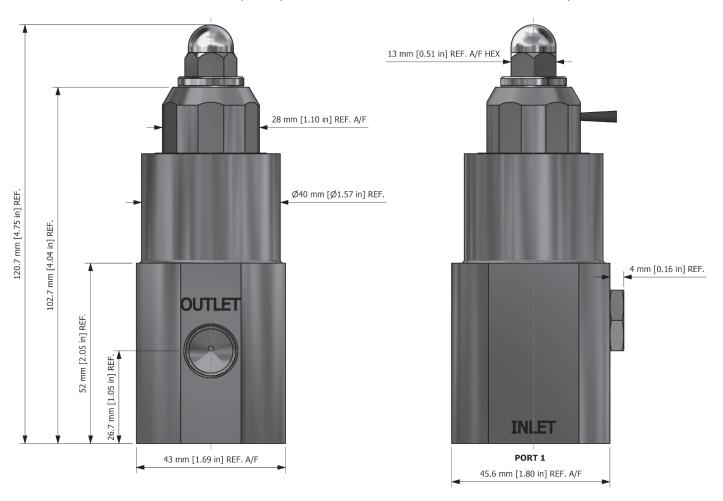
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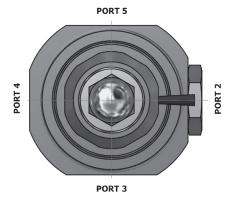
DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1/4" SAE inlet option - please contact the office for additional connection options.



PORT POSITIONS

Use 'ORDERING INFORMATION' on page 4 to select connection size and type for each port position (2 to 5):



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PRESSURE REGULATOR FOR HYDROGEN FUEL CELL FORKLIFT TRUCK APPLICATIONS



• Gas Liquid

DiaphragmPiston

Self- Non-Venting Venting

Max Inlet: 438 bar (6,350 psi)

Max Outlet: 20 bar (290 psi)

Cv 0.06

FLOW CURVE

Please contact the office for further information.

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PRESSURE REGULATOR FOR HYDROGEN FUEL CELL FORKLIFT TRUCK APPLICATIONS



● Gas Liquid

DiaphragmPiston

Self-Venting

Non-Venting

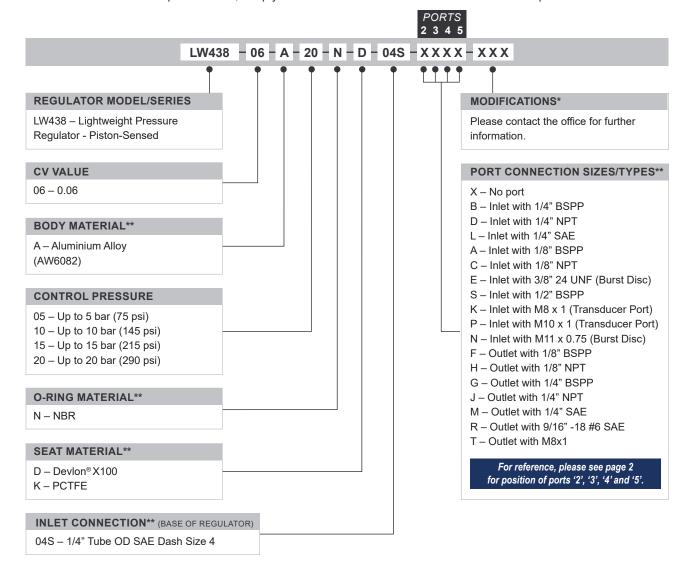
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ORDERING INFORMATION

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



OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-LW438-06-N-K	NBR seals and PCTFE seat
Service Kit	SRK-LW438-06-N-D	NBR seals and Devlon® X100 seat

Note: Ancillary equipment also available

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

Devlon® is a registered trademark of James Walker

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

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