PRESSURE REGULATOR FOR LIGHTWEIGHT HYDROGEN FUEL CELL APPLICATIONS





Diaphragm
Piston







Max Inlet: 350 bar (5,075 psi)

Max Outlet: 3 bar (45 psi)

Cv 0.06



INTRODUCING THE LW351...

The LW351 is a piston-sensed pressure regulator, designed specifically to provide constant pressure supply to the hydrogen fuel cell for lightweight applications. With a low 0.15% decaying pressure effect, it offers accurate control in a single-stage pressure reduction.

When weight is a critical consideration for your application, the LW351 is the perfect solution. It's compact size and lightweight design (down to 0.2kg) fits the bill, and additionally offers direct mounting to the Hydrogen cylinder.

SPECIFICATION

Max. Rated Inlet Pressure	350 bar (5,075 psi)
Outlet Ranges	Up to 3 bar (45 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	0.2kg (min.)

Pressure regulator rating may be limited by connection type, Cv and/or seat material

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS	
Body and Bonnet	Aluminium Alloy	
	(AW6082)	
Main Valve Pin	AISI 316/316L Stainless Steel	
	(UNS S31600/S31603)	
Seat	PCTFE	
Valve Spring	Inconel® X750	
Piston	Aluminium Alloy	
	(AW6082)	
O-Rings	FKM/FPM	
Loading Spring	AISI 17-7 PH Stainless Steel	
	(UNS S17700)	
Filter	40 Microns	

FEATURES AND BENEFITS

LIGHTWEIGHT & COMPACT

Weighs as little as 200g - perfect if application would benefit from a lightweight solution.

PISTON SENSING ELEMENT

> Perfect for use in challenging conditions.

0.15% DECAYING PRESSURE EFFECT

> For stable pressure control, even under depleting gas supply conditions.

DIRECT MOUNTING TO CYLINDER

> Quick and convenient design.

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





Unit 24, Graphite Way, Hadfield, Glossop, Derbyshire, UK, SK13 1QH

T +44 (0)1457 899 307

E sales@pressure-tech.com

W www.pressure-tech.com

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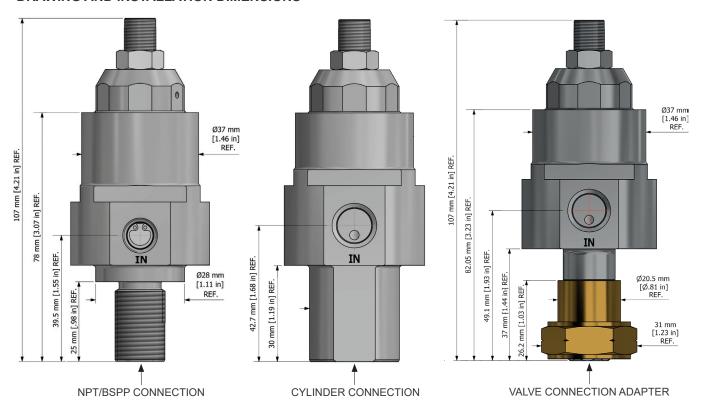


Max Inlet: 350 bar (5,075 psi)

Max Outlet: 3 bar (45 psi)

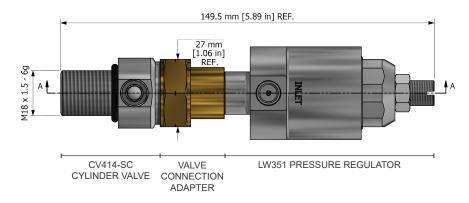
Cv 0.06

DRAWING AND INSTALLATION DIMENSIONS



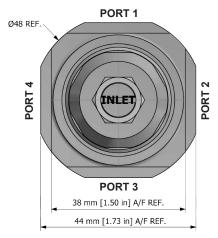
CV414 CYLINDER VALVE

Our LW351 regulator features an optional Valve Connection Adapter (VCA) inlet, offering connection to our CV414 cylinder valve (sold separately) - ask for details.



PORT POSITIONS

Use 'ORDERING INFORMATION' on page 4 to select connection size and type for each port position (1 to 4):



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• Gas Liquid

DiaphragmPiston



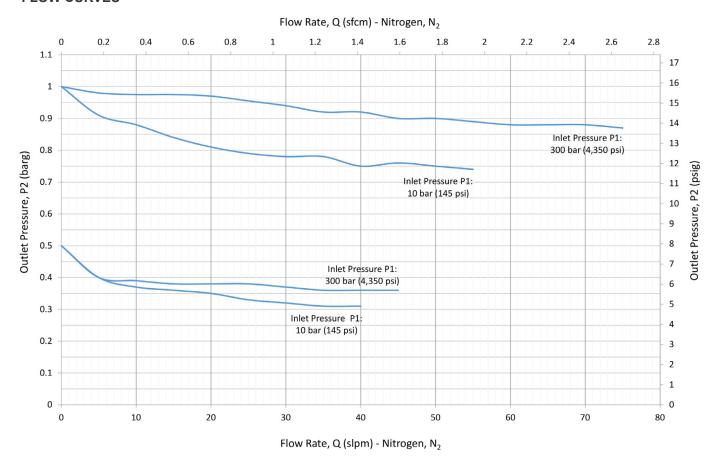
Non-Venting

Max Inlet: 350 bar (5,075 psi)

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Cv 0.06

FLOW CURVES



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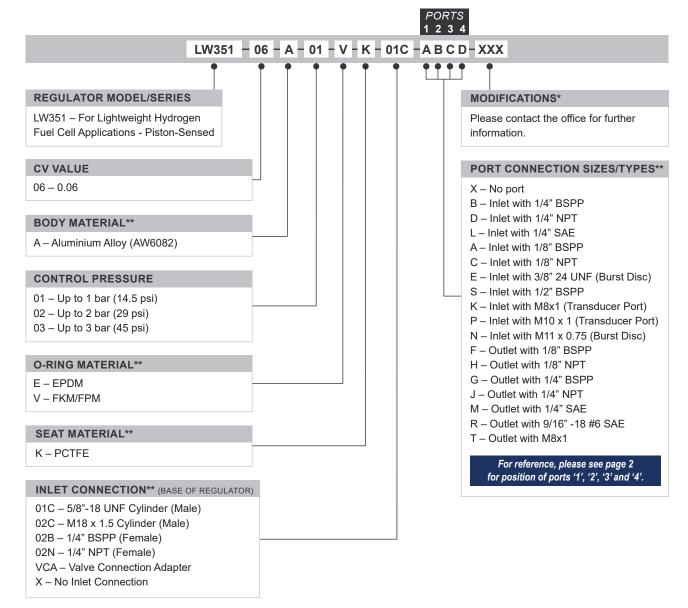
Max Inlet: 350 bar (5,075 psi)

Max Outlet: 3 bar (45 psi)

Cv 0.06

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-LW351-06-A-01-V-K	LW351 service kit.
Note: Ancillary e	quipment also available	

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

- * Where applicable
- ** Other connections/materials may be available please contact the office

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