

LW351 Datasheet

PRESSURE REGULATOR FOR
HYDROGEN DRONE & LIGHT VEHICLE APPLICATIONS

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 350 bar (5,075 psi) | Max Outlet: 1 bar (14.5 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. 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 1 bar (14.5 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	0.2kg (min.)

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'-Ring Seals	FKM / FPM
Loading Spring	AISI 17-7 PH Stainless Steel (UNS S17700)
Filter	40 Microns

FEATURES AND BENEFITS

1 LIGHTWEIGHT & COMPACT

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

2 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

3 0.15% DECAYING PRESSURE EFFECT

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

4 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.



DESIGNED AND BUILT IN THE UK

PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E info@pressure-tech.com

W www.pressure-tech.com

040419

PAGE:
1 OF 4

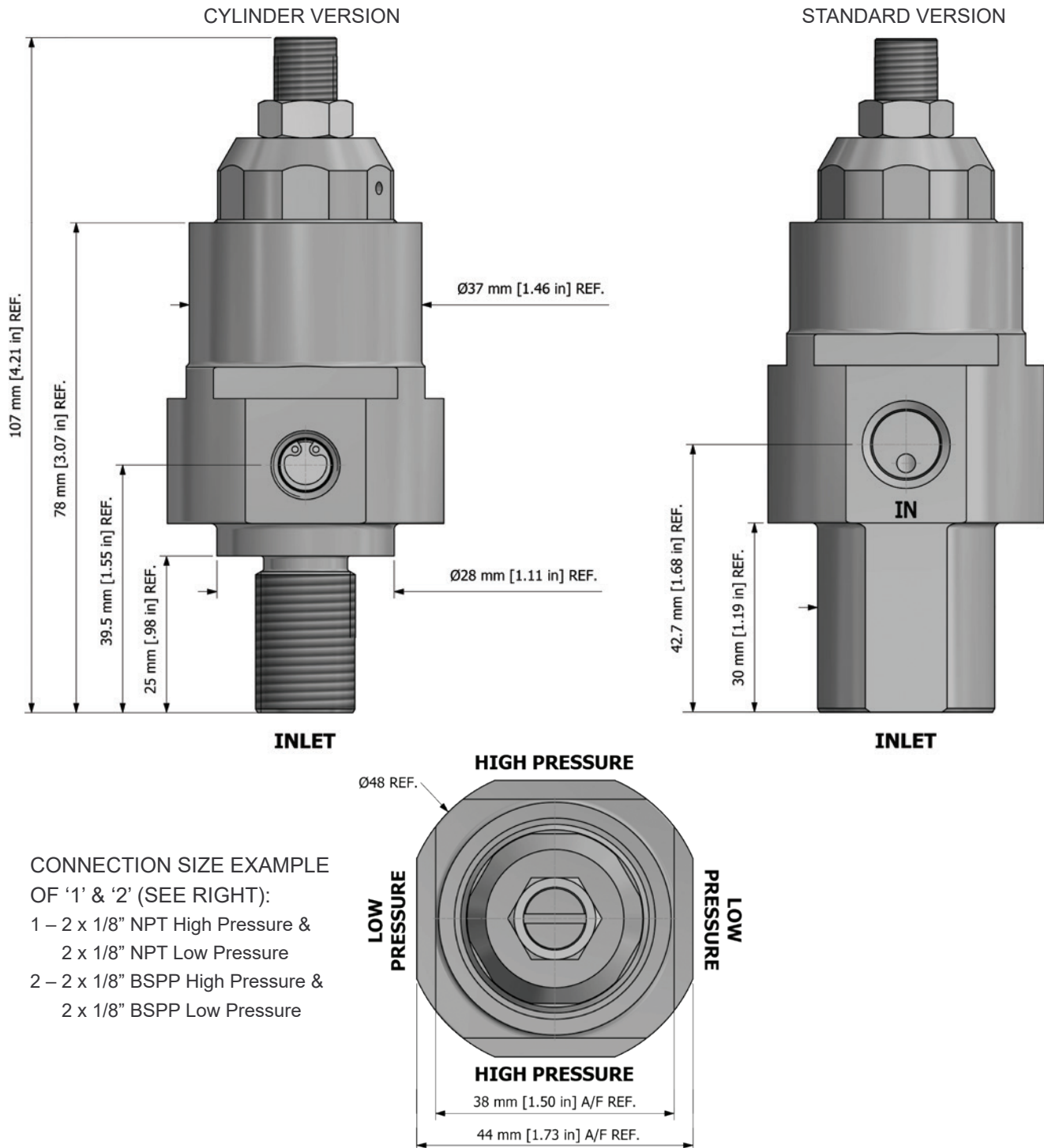
LW351 Datasheet

PRESSURE REGULATOR FOR
HYDROGEN DRONE & LIGHT VEHICLE APPLICATIONS

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 350 bar (5,075 psi) | Max Outlet: 1 bar (14.5 psi) | Cv 0.06

DRAWING AND INSTALLATION DIMENSIONS

Please contact the office for further information.



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.



DESIGNED AND BUILT IN THE UK

PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E info@pressure-tech.com

W www.pressure-tech.com

040419

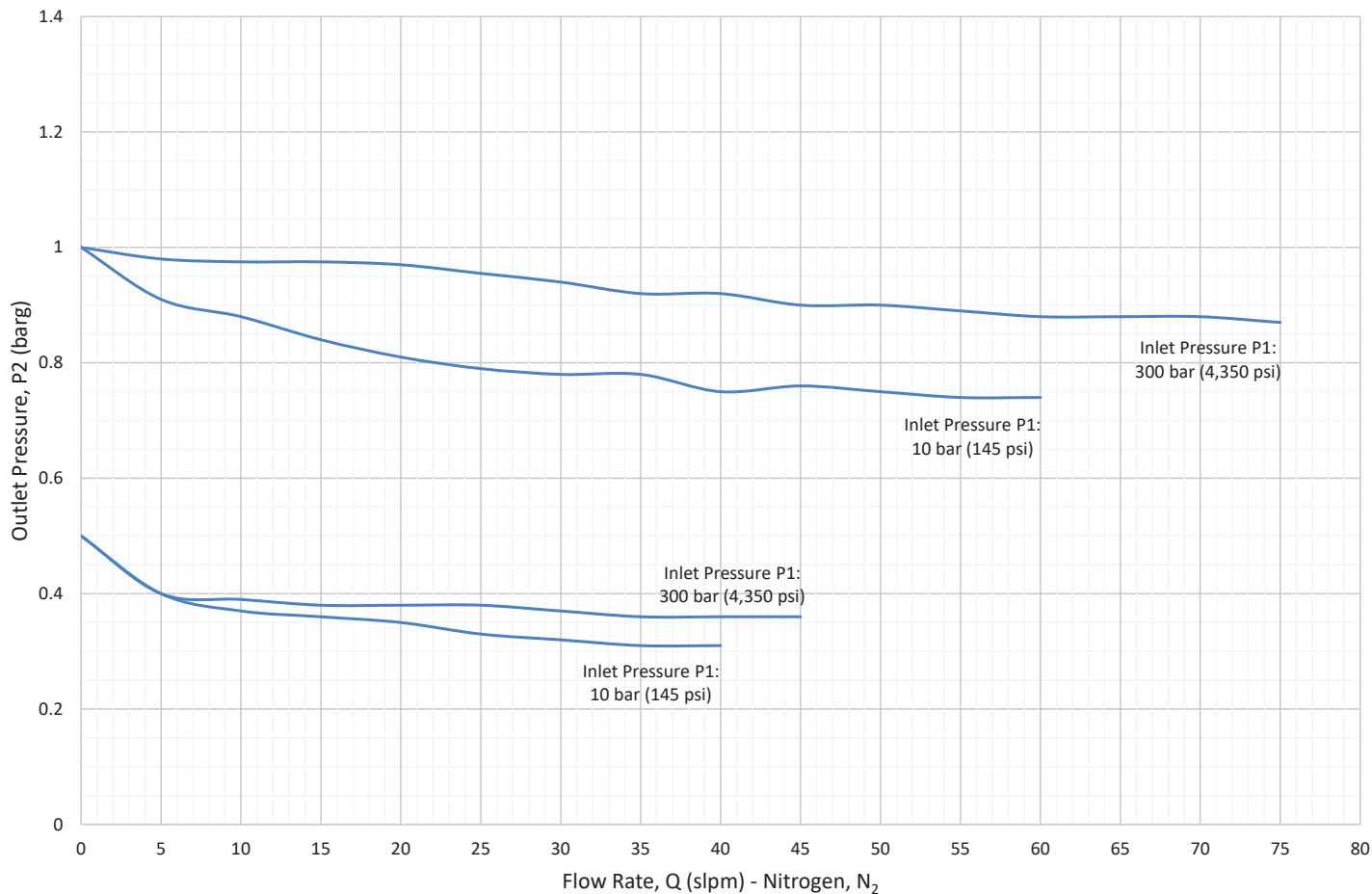
PAGE:
2 OF 4

LW351 Datasheet

PRESSURE REGULATOR FOR
HYDROGEN DRONE & LIGHT VEHICLE APPLICATIONS

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 350 bar (5,075 psi) | Max Outlet: 1 bar (14.5 psi) | Cv 0.06

FLOW CURVES



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.



DESIGNED AND BUILT IN THE UK



PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E info@pressure-tech.com

W www.pressure-tech.com

040419

PAGE:
3 OF 4

LW351 Datasheet

PRESSURE REGULATOR FOR
HYDROGEN DRONE & LIGHT VEHICLE APPLICATIONS

● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 350 bar (5,075 psi) | Max Outlet: 1 bar (14.5 psi) | Cv 0.06

ORDERING INFORMATION

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

LW351 - 06 - A - 01 - V - K - 01C - 1 - XXX									
REGULATOR MODEL/SERIES									
LW351 – Pressure Regulator for Hydrogen Drone & Light Vehicles - Piston-Sensed									
CV VALUE									
06 – 0.06									
BODY MATERIAL **									
A – Aluminium Alloy (AW6082)									
CONTROL PRESSURE									
01 – Up to 1 bar (14.5psi)									
O-RING MATERIAL **									
E – EPDM V – FKM / FPM									
MODIFICATIONS*									
Please contact the office for further information.									
CONNECTION SIZE/TYPE**									
1 – 2 x 1/8" NPT High Pressure & 2 x 1/8" NPT Low Pressure 2 – 2 x 1/8" BSPP High Pressure & 2 x 1/8" BSPP Low Pressure 3 – 1 x 1/4" NPT High Pressure & 3 x 1/4" NPT Low Pressure									
INLET CONNECTION SIZE/TYPE**									
01C – 5/8"-18 UNF Cylinder 02C – M18 x 1.5 Cylinder 02N – 1/4" NPT									
SEAT MATERIAL**									
K – PCTFE									

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-LW351-06-A-350-V-K...	PCTFE seat.

Note:
Ancillary equipment also available

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

* Where applicable

** Other materials/sizes may be available - please contact the office

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.



DESIGNED AND BUILT IN THE UK



PRESSURE TECH LTD

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

T +44 (0)1457 899 307

E info@pressure-tech.com

W www.pressure-tech.com

040419

PAGE:
4 OF 4