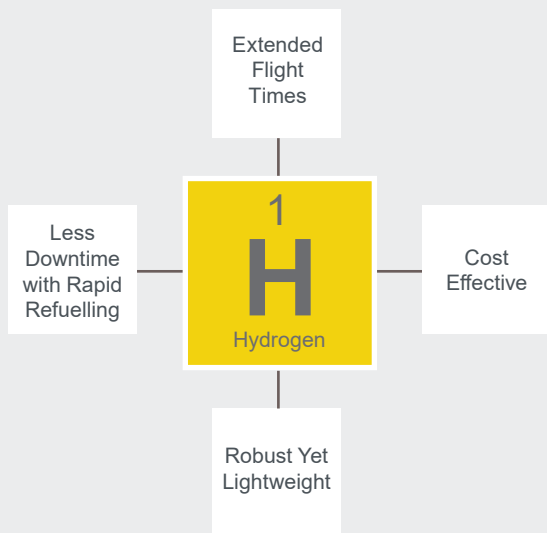


FLYING HIGH: Hydrogen-Powered UAV Drone Regulators

With the ever-growing use of commercial Unmanned Aerial Vehicles (UAVs), the implications of short flight durations and longer recharge times achieved by traditional battery-powered drones has led to the emergence and development of Hydrogen-powered UAV drones as a cost-effective alternative solution.

WHY HYDROGEN-POWERED UAV DRONES?



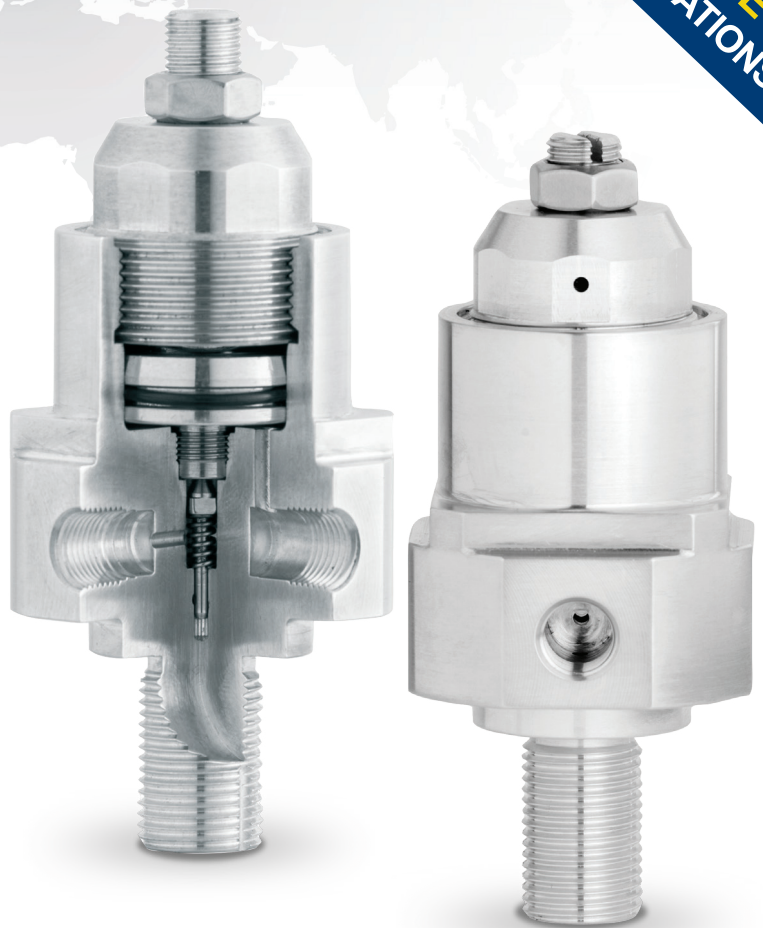
PRESSURE TECH'S HYDROGEN UAV DRONE REGULATOR SOLUTION...

After extensive development, Pressure Tech has developed a compact and lightweight pressure regulator for Hydrogen-powered UAV drone applications. The LW351 pressure regulator helps enable flight times of up to 3-times longer than battery-powered alternatives.

Pressure Tech LW351 features:

- Piston-sensed design
- 0.15% decaying pressure effect
- Direct mounting to cylinder
- Compact and lightweight design

To discuss how Pressure Tech can support your Hydrogen Fuel Cell drone or light vehicle application, please call our Sales team on +44 (0)1457 899 307 or email sales@pressure-tech.com.



ABOVE: PHOTO COURTESY OF INTELLIGENT ENERGY



ABOVE: PHOTO COURTESY OF THE BIONIC EYE

LW351

STANDARD SPECIFICATION

Max Inlet	350 bar (5,075 psi)
Max Outlet	1 bar (14.5 psi)
Port Size	1/8"
CV	0.06
Venting	Non-venting
Sensing Mechanism	Piston
Application	Gas



Weight:
0.2kg (min.)



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DESIGNED AND BUILT IN THE UK

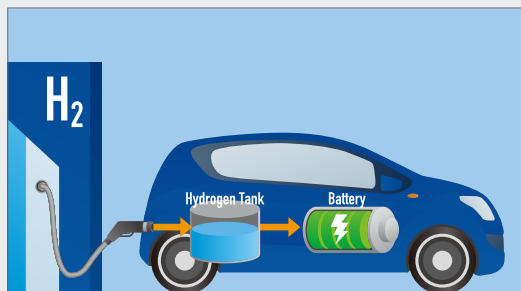
ACCURATE & DEPENDABLE: Hydrogen Fuel Cell Regulators

Growing concerns over poor air quality and the government's drive to reduce carbon emissions are leading to increased interest in Hydrogen fuel cell technology. Chemical energy in the Hydrogen is stored under high pressure and converted into electrical energy via an electrochemical process produced by the fuel cell.

Reducing the pressure from high pressure containers, typically 350 bar (5,075 psi) or 690 bar (10,000 psi), down to lower pressures to feed the fuel cell requires a pressure regulator with a range of features that provide accurate and stable control under varying operating conditions.

Our range of Hydrogen fuel cell regulators cover various applications depending on factors such as flow rates to the fuel cells, and ultimately, energy output requirements.

RF1034: FOR HIGH PRESSURE HYDROGEN REFUELLING APPLICATIONS



With a balanced design, our RF1034 offers accurate control of the high pressures typically associated with Hydrogen refuelling points.

The RF1034 incorporates a Tecasint® seat for high pressure gases and uses a range of precision machined sensing elements to provide control of pressures up to 1,034 bar (15,000 psi). In addition, its Cv 0.3 offers fast refuelling times for extra convenience.

To discuss how Pressure Tech can support your application, call our Sales team on +44 (0)1457 899 307 or send an email to sales@pressure-tech.com.



RF1034



LW351



AUTO438 / AUTO875

EC79
PENDING



ABOVE: PHOTO COURTESY OF INTELLIGENT ENERGY



REFUELLING

RF1034
Max. In: 1,034 bar (15,000 psi)
Max. Out: 1,034 bar (15,000 psi)
Port Size: 1/4" MP
CV: 0.3
Non-venting
Fast flow, high pressure



VEHICLES

AUTO438 / AUTO875
Max. In: 875 bar (12,690 psi)
Max. Out: 20 bar (290 psi)
Port Size: 1/4" NPT / SAE
CV: 0.5
Non-venting
Double o-ring safety back-up



DRONES & LIGHT VEHICLES

LW351
Max. In: 350 bar (5,075 psi)
Max. Out: 1 bar (14.5 psi)
Port Size: 1/8" BSP
CV: 0.06
Non-venting
0.2kg lightweight design



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