

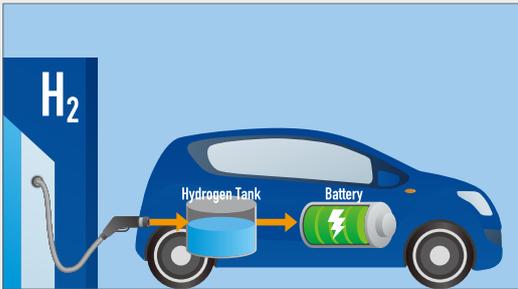
DRIVING THE FUTURE: Hydrogen Fuel Cell Vehicle Regulators

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 (15,000psi). 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



AUTO438 / AUTO875

EC79

PENDING



HYDROGEN-POWERED CAR



HYDROGEN-POWERED BUS



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
Seat: Tecasint®
Non-venting
Fast flow, high pressure



VEHICLES

AUTO438
Max. In: 438 bar (6,350 psi)
Max. Out: 20 bar (290 psi)
Port Size: 1/4" NPT / SAE
CV: 0.5
Seat: PEEK™
Non-venting
Double o-ring safety back-up



VEHICLES

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



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