


ChemTec HPEFV: Hydrogen Fuel Cell Energy

About Hydrogen Fuel Cell Energy

Hydrogen is high in energy, yet it produces almost no pollution – making it a greener alternative! Since the 1970's NASA has used liquid hydrogen to power their shuttles and rockets. Hydrogen fuel cells power the shuttles electrical systems, producing a clean by-product – pure water, which the shuttle crew can then use to drink. – *Renewable Energy World 2013*

Growth in Hydrogen Fuel Cells

As noted above, the use of hydrogen fuel cells is not new to us – but it is expected to become more popular in the upcoming years. Honda, Toyota, GM and Hyundai (to name a few) are committed to putting hydrogen-fueled fuel-cell cars on limited sale in Europe by 2015. With expected increase in hydrogen powered cars, comes the construction of hydrogen fueling stations – In the US there are currently 10 (most residing in California). Gov. Jerry Brown of California recently provided more than \$2 billion in funds for clean-vehicle incentives – with a goal of 100 publicly accessible stations in the next few years. – *According to Green Car Report 2013*

ChemTec's High Pressure Excess Flow Valve



Product Features:

- Controls high pressure excessive flows
- Controlled bleed resets automatically
- Field adjustable
- Positive shut-off option
- Maximum pressure 6000 PSIG
- Detects excess flows
- Detects increase in media viscosity
- Function: Restricts or shuts off flow

How HPEFV is Used for Hydrogen Fuel Cell Energy

- If broken line, ChemTec's High Pressure Excess Flow Valve would prevent continuous flow of hydrogen.
- ChemTec's High Pressure Excess Flow Valve features an auto shutdown, so if pressure in the line changes the HPEFV will shutdown automatically to prevent hydrogen from escaping into the atmosphere.



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