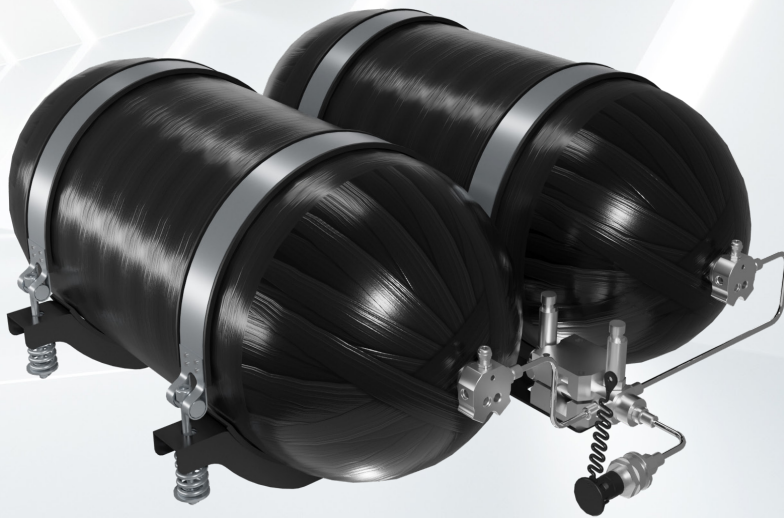


Passenger Car Onboard Hydrogen Supply System



Design pressure

70 MPa

Output pressure/Flow

0.9-1.9 MPaG

Leakage rate

$\leq 1 \times 10^{-4}$ mbar.L/s

Design temperature

-40~85 °C

Medium pressure pipeline operating pressure

3 MPaG

Impact resistance

X/Y/Z 8 g

Product introduction

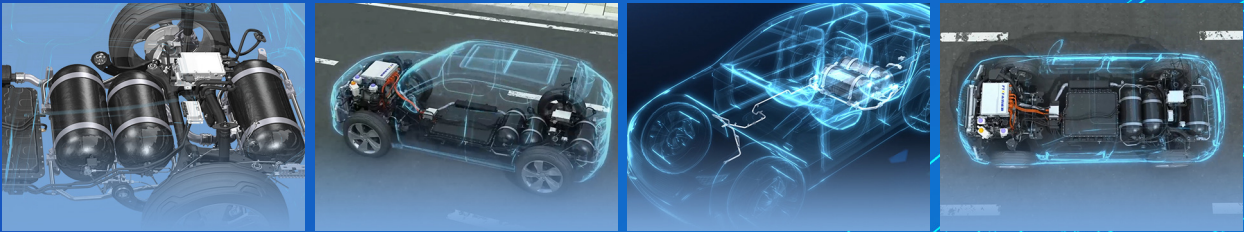
The product is 70MPa Passenger car onboard high-pressure hydrogen supply system. It adopts self-developed Type-IV hydrogen tank, tank valve, pressure regulator, possessing advantages of modularization, lightweight, integration and intelligence, which is safe and reliable.

Technical characteristics

- Design and verify the lifecycle based on the requirements of the vehicle. The system architecture is highly integrated and modularized, which is convenient for installation and maintenance.
- Self-developed HMS, which can realize high-precision control of system valves, sensors and other electrical components; Integrated hydrogen safety software control strategy can actively monitor the safety of hydrogen supply system.
- Equipped with self-developed tank valve and pressure regulator, the hydrogen supply system architecture is simplified in an integrated and modular manner, the leakage points is reduced by more than 30%, and the safety is significantly improved.
- Self-developed Type IV hydrogen tank :The equipment of the Self-developed Type IV hydrogen tank of FTXT Energy can effectively improve the quality density of hydrogen storage.
- Self-developed tank valve characterized by high security and environmental adaptability, modular and integrated design, miniaturization and lightweight design, high reliability and low-power consumption.
- Self-developed pressure regulator: This product integrates 5 functions and 10 interfaces, significantly reducing leakage points of the hydrogen storage system. It uses two stage coaxial pressure reducing structure, and the whole valve is small and lightweight, which is 60% lighter than similar products in the market. Good temperature adaptability, minimum working temperature - 40 °C . Good Robustness: The service life can reach more than 50000 times.

Application scenario of passenger car onboard hydrogen supply system

This product is mainly used in the field of hydrogen fuel passenger vehicles, and can also be extended to other fields.



Breaking Frontiers in Technology, Fueling Tomorrow with Hydrogen

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