HYDROGEN STORAGE DEVICE

**Hydrogen Tank**
- **Function**: Store high pressure hydrogen
- **Certified high-pressure-tolerant parts, collision safety, leak-proof regardless of change in internal pressure**

**Hydrogen Sensor**
- **Function**: Hydrogen leakage detection
- **Ease of assembly, durability/reliability**

**High Pressure Regulator**
- **Function**: Measure in-tank pressure level
- **Certified high-pressure-tolerant parts**

**Low Pressure Sensor**
- **Function**: Measure pressure level at post-regulator
- **Certified high-pressure-tolerant parts**

**Solenoid Valve**
- **Function**: Turn on/off high pressure hydrogen gas
- **Certified high-pressure-tolerant parts, Reduced high-frequency noise, leak-proof**

**High Pressure Regulator**
- **Function**: Reduce hydrogen gas pressure (10bar)
- **Certified high-pressure-tolerant parts, maintain adequate flow of hydrogen without leakage**

**Mounting Frame**
- **Function**: Hold hydrogen tank
- **Ease of assembly, vehicle packaging requirement, vibration/shock-proof, designed to accommodate volume inflation when charged**

**Protector**
- **Function**: Store and supply energy necessary for overall operation of FCEV
- **Ease of assembly, fire proof, aerodynamic design**

**Air Bag Control Unit**
- **Function**: Transmit signal to air bag when rear-end collision is detected
- **Reliable operation in case collision, durability/reliability**

SWAGELOK PRODUCTS IN USE ON HYDROGEN SYSTEM

- **Nylon Hoses on Low-Pressure side**
- **Check Valve on High Pressure Side**
- **FK Fittings on High Pressure Side (Unions & Tees)**
- **Tubing on High Pressure Side**
- **Custom Manifold on High Pressure Side**