# Swagelok

SWITZERLAND

#### 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

#### **Mounting Frame**

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

#### **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

#### **Air Bag Control Unit**

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

## Protector

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

#### SWAGELOK PRODUCTS IN USE ON HYDROGEN SYSTEM

#### Nylon Hoses on Low-Pressure side



### FK Fittings on High Pressure Side (Unions & Tees)



**Custom Manifold on High Pressure Side** 



#### **Check Valve on High Pressure Side**



### **Tubing on High Pressure Side**

