

# TESCOM™ Regulators Fuel Automakers' Hydrogen Filling Stations

## RESULTS

- Influenced the design of the fuel control system to meet challenging specifications
- Provided highly reliable pressure regulation and control products
- Supported customer with on-site service



## APPLICATION

Hydrogen station control panel & hydrogen dispenser

## CHALLENGE

A global automotive company installed new hydrogen filling stations at locations throughout Korea. Each station included a control panel and hydrogen dispenser. The filling equipment had to provide accurate pressure and flow control at pressures up to 1000 bar and at temperatures down to -40° C. The customer needed a supplier that could help design the system, plus provide highly reliable actuators, regulators, and valves.

## SOLUTION

The customer chose Emerson for its responsive technical support and the proactive site service available through its local distributor. Emerson collaborated with the customer to create a high-pressure fuel control system to fulfill the specifications. The first stage pressure reduction incorporated a TESCOM 26-2000 regulator and ER5000 pneumatic controller to accurately manage fuel flow. The second stage used TESCOM VA air-operated valves for on-off flow control. The automotive company valued the reliability of the TESCOM products and continues to purchase the Emerson solution.



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