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.

With the help of Emerson's TESCOM™ Pharmpure PH Series single-stage regulators with customized flanges, the life science equipment producer now meets DIN 11864-2-A regulations. The customer was pleased with their fully certified solution that achieved their application's wide flow range requirements.

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