

DEVELOPMENT TEST STAND FOR

HYDROGEN VALVES

This test stand is designed for the development of proportional pressure and shut-off valves for hydrogen fuel cell electric vehicles.

- Nominal pressure up to 700 bar
- Highly-dynamic valve system for generating pressure fluctuations
- Heated test chamber
- Material and component selection to ensure tightness
- Forming gas used to reduce costs and avoid explosive zones

TECHNICAL HIGHLIGHTS

- Pressure and flow control
- Simulation of consumption for generating pressure fluctuations
- Simulation of thermal environmental influences
- Integrated high-pressure generation and storage
- Test pressures up to 700 bar
- Precise Coriolis mass flow measurement
- Test stand automation using OCEAN
- Test medium: Forming gas 95/5 (optional H2 operation in ATEX design)

