



# Powertech Upgrades Advanced Transportation Component Testing Lab

**Powertech has upgraded its Advanced Transportation Component Testing Lab. The new lab consists of six independently temperature- and pressure-controlled test facilities. The lab is now fully automated, enabling tests to run 24 hours a day. Testing accredited to ISO 17025.**

The Component Testing Lab tests high-pressure transportation components, including solenoid valves, regulators, pressure-relief devices, check valves, manual valves, nozzles, receptacles, hoses, fittings, and sensors.

## Component Lab Features

- Hydrogen gas endurance tests up to 93 MPa
- Hydrogen gas pressure up to 140 MPa
- Nitrogen gas endurance tests up to 87.5 MPa
- Hydraulic endurance tests up to 140 MPa
- Hydraulic endurance tests of systems up to 25 litre volume
- Hydrostatic burst tests up to 500 MPa
- Five chambers each with workspace volume of 900 L, one chamber with workspace volume of 34 L
- Test chamber temperature range from -75°C to 180°C

## Featured Regulations and Standards

- All hydrogen gas powered land vehicles tests, including:
  - EC 79
  - ECE R134 and UN GTR No. 13
  - HGV 3.1, 4.4, 5.1, 4.10, HPRD1
  - ISO 15500

- All hydrogen infrastructure test standards, including:
  - ISO 17268, 19880
  - SAE J2600
  - HGV 4.4, 5.1, 4.10
- Compressed Natural Gas (CNG) tests standards, including:
  - NGV 1, 3.1, 4.1, 4.2, 4.4, 4.6, PRD1
  - ISO 14469

## Additional Testing Capabilities

- Pre-cooled hydrogen flow test up to 200 g/s (133,400 NL/min)
- Corrosion resistance, including cyclic corrosion resistance
- Vibration resistance
- UV resistance
- Electrical tests
- Hydrogen, oxygen, and CNG exposure
- All material testing for above mentioned standards
- Material failure analysis

In addition to conducting testing, Powertech engineers are members of ISO, CSA and SAE technical committees developing testing protocols.

## ABOUT POWERTECH LABS:

*Powertech Labs Inc. is one of the largest testing and research laboratories in North America, situated in beautiful British Columbia, Canada. Our 11-acre facility offers 15 different testing labs for a one-stop-shop approach to managing electrical utilities, and testing gas components, pressure vessels and systems.*

*Outside of the utilities industry, Powertech provides routine testing capabilities, product development, research and consulting services to support an array of industrial-type operations, electrical equipment manufacturers and automotive original equipment manufacturers.*

[www.powertechlabs.com](http://www.powertechlabs.com)



## FOR MORE INFORMATION CONTACT:

**Marcus Treacy - 604.590.7423**

Team Lead, Component Pressure Testing  
Advanced Transportation  
[marcus.treacy@powertechlabs.com](mailto:marcus.treacy@powertechlabs.com)

**Powertech**

[www.powertechlabs.com](http://www.powertechlabs.com)