

## Testing of Gas Components for Vehicles



**Kiwa Technology offers testing and development services of automotive components for LPG, CNG, LNG and hydrogen, as well as cyclic and climatic tests. We mainly test pressurized components and electronics.**

**We can not only perform the standardized test set-ups, we are specialists in cooperating with the customer for custom test requests.**

Kiwa can offer a wide range of tests, such as:

- Shock temperature test, in extreme conditions
- Pressure cycles (up to 1100 Bar)
- Test and pressure cycles with flammable gases (such as LPG, CNG or Hydrogen)
- Determination of Kv or Cv value (estimated flow)
- Mechanical resistance test, in extreme conditions
- Vibration test
- Exhaust and combustion tests (NOx, CO, CO2, etc.)
- Bonfire on gas cylinders
- Ballistic test on gas cylinders
- (Bio)gas analysis

Our approach of component testing:

- Design of a test bench and gas supply
- Construction of a test bench
- Testing of the component and measurement of all parameters

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After successful testing we can introduce you to our colleagues of Kiwa Nederland for certification support. Kiwa Nederland is accredited by the Dutch Vehicle Authority (RDW), one of the most renowned certification authorities in the world, for testing automotive vehicles using hydrogen according to the new Directive No. 79/2009 (Dir. 79/2009). Furthermore Kiwa Nederland is accredited by the KBA (Federal Motor Transport Authority) of Germany. And can also test according to the HGV 3.1.

## Target Group

Car manufacturers and their automotive suppliers.

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