

Tests and certification of valve assemblies (valves, pressure-reducing valves, safety valves etc.)



Final testing of components, procedures and qualification testing of test lines in air at high pressure level , under COFRAC accreditation n° 1-0078

- Valves
- Pressure-reducing valves
- Safety valves
- Other safety feature for gas transport

The M5 facility has been developed in collaboration with French CETIM.

CESAME-EXADEBIT has been designated by AFNOR (the French Association for Standardisation) as a test laboratory for the monitoring of safety valves.

Flow and pressure specifications

Mass flow: 10 kg/s @ 40 bar,
3 kg/s @ 180 bar

Diameter: DN25 to DN200

Pressure : 1 to 180 bar

Uncertainty: 1 to 2 %

Contact :

CESAME-EXADEBIT SA
43, rue de l'Aérodrome
86000 - POITIERS (France)

tel : +33 (0)5 49 37 91 26

fax : +33 (0)5 49 52 85 76

e-mail : cesame@cesame-exadebit.fr

web : www.cesame-exadebit.com

Who are we?

CESAME-EXADEBIT is an internationally-known laboratory in the field of gas flow measurement. With a strength coming from more than 30 years' experience in this area, CESAME-EXADEBIT holds the national reference for the cubic meter of gas under high pressure and carries out tests for various industries - gas, chemical, aeronautics, mechanical...

Our national and international vision

Since 2004, CESAME-EXADEBIT is the Designated Institute of LNE the French National Metrology Institute for high pressure gas flow metering, and referred as "LNE-LADG" for this purpose. Within this framework, CESAME's vision is to maintain and improve the flow unit standard.

The performances of the tests rigs are regularly verified by carrying out inter-comparisons within national, European and international frameworks, under the aegis of the BIPM.

In addition, CESAME-EXADEBIT is since 2004 a member of the EUREGA harmonisation group, which aims to define an equivalent primary reference in Germany, the Netherlands, Denmark and France.

Our Services

- Tests and certification of valve assemblies
- Calibration of all types of valves
- Training in flow measurement
- Repair of gas flow meters undergoing testing for the following manufacturers (Itron, Elster, Instromet, Dresser, Romet...).
- Statutory testing for gas volume meters
- Tests under high flow/high pressure according to the client's specification
- Research & Development within the field of flow measurement.

Our facilities

CESAME-EXADEBIT benefits from a significant and unique infrastructure for the production and storage of compressed air (100 m³ at 200 bar), which allows a wide range of measurements of flow and pressure.

For calibration of flowmeters :

- . Flow: 4.10⁻⁴ to 30 kg/s
- . Pressure: 1 to 45 bar
- . Uncertainty: 0.2 to 0.3%

For tests of valves :

- . Mass flow: 10 kg/s @ 40 bar,
3 kg/s @ 180 bar
- . Pressure : 1 to 180 bar
- . Uncertainty: 1 to 2 %

This rig has been developed with French CETIM.

The traceability chain put into place is made up of:

- A primary test rig PVTt for the calibration of sonic nozzles
- Secondary test rigs, on which sonic nozzles are used as transfers standards

Our Accreditations

