framatome

ASME accepted flow capacity tests

For certification of Pressure Relief Devices

Certified test laboratory in accordance with the ASME Pressure Vessel Code with unique capacities in terms of pressures and flow rates

Challenge

According to the ASME Boiler and Pressure Vessel Code, pressure relief devices must be submitted to capacity testing. The tests shall be conducted at an ASME accepted laboratory, in which the testing facilities, methods, procedures, and authorized observer (person supervising the tests) meet the applicable requirements of ASME PTC 25 on pressure relief devices. Such tests must be repeated in response to any major design change. Most of the certified laboratories are located in North America and use air, nitrogen, water and steam as medium at limited pressure. For higher pressures the tests need to be performed on models and the results have to be extrapolated.

Solution

Framatome's valve test laboratory in Karlstein, Germany, is certified by ASME as testing laboratory in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. We offer unique ASME certified steam flow capacity tests in terms of pressure (18 MPa / 2,600 psi) and flow rate (8 kg/s, 63,000 pph). This allows to perform actual tests matching with the real physical boundary conditions. Our laboratory benefits from a long history in valve testing, is independent from valve manufacturers and is accessible to all Original Equipment Manufacturers and utilities.

Customer benefits

- Reliable results by independent test laboratory
- Guaranteed ASME certified testing
- Effort reduction by using less extrapolation of results

Your performance
is **our** everyday **commitment**

Pressure relief valve on test bench

Technical information

- Flow tests certified by ASME in conformance with ASME PTC 25
- Experienced and skilled personnel in valve testing
- Additional accreditation according to ISO 17025 (as listed in appendix of certificates D-PL-21039-02-00 see also https://www.dakks.de/en/content/directory-accredited-bodies-0)

Key Figures

18 MPa (2,600 psi) pressure at **8 kg/s** (63,000 pph) flow rate for nominal diameter up to **2”**

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