

# Failure of thermofluidic installations and equipment

## *Failure analysis and expert evaluation*



**All our expertise for reliable thermofluidic systems**

## YOUR EXPECTATIONS

Further to failure, damage, deterioration or drop in performance suffered by your thermofluidic system (hydraulic, pneumatic, etc.), you want to:

- Understand and solve the problem
- Obtain assistance for the selection of components
- Verify the conformity of a component or the installation

## OUR SOLUTIONS

We can provide assistance in many fields of application (piping, valves and fittings, rotating machinery, pumping stations, heat exchangers, etc.). Our services include:

- A complete diagnosis of the installation
- An analysis of the root causes of the disorders found
- On-site measurement campaigns (flow, pressure, temperature or vibration measurements)
- Characterisation tests in laboratory (performance of valves, pumps, etc.)
- Flow simulations by numerical computation (with tests, as applicable)
- Piping flexibility calculations
- Assembly calculations
- Non-destructive testing (NDT) equipment

The most appropriate corrective actions (redesign of components, technological choices, etc.)

## YOUR BENEFITS

Understanding the root cause of a failure will allow you to select the most reliable and cheapest solutions.

This is also the key to enhance equipment efficiency, optimise your system or increase its durability in order to meet requirements for sustainable development.

Cetim is the French leading specialist in failure analysis and will provide you with neutral and reliable results for use in insurance or **judicial**, or for industrial purposes.

We implement a comprehensive and optimised approach which includes numerical modelling and physical testing. Moreover, with CETIM's approach, a single point of contact will be at your disposal to give you access to a very wide range of competencies (mechanical engineering, hydraulics, sealing, joining, electricity) and testing equipment.



**Question and Answer Service**

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