

Pneumatic Testing

SYSTEM INTEGRITY TESTING USING AIR OR NITROGEN GAS

OVERVIEW

Prior to the introduction of hydrocarbons, pneumatic testing is used to confirm the integrity of pipework and vessels during new build oil, gas, petrochemical and LNG projects. This method is used to verify that a system may be safely subjected to its maximum operating pressure by testing it beyond its designed pressure limit and is mainly used on systems that are not designed to be filled with test fluid.

Testing can be performed with air, or an inert gas medium such as nitrogen, to pressurize the system up to 110% of its designed operating pressure limit. Pneumatic testing requires a greater level of design and HSE control to reduce the risks to as low as practically possible.

APPLICATIONS

- Gas Distribution Systems
- Petrochemical Process Piping
- Oil Refinery Process Piping
- Leak testing of new processing plants and pipework
- Leak testing following system shut down, maintenance or modification

FEATURES

- Suitable for non-load bearing pipework / vessels
- Can be integrated with drying activities
- Certified test with full traceability

BENEFITS

- No need to clean the system after testing
- Will not lead to contamination of pipelines or systems
- Using nitrogen will purge the system ready for start-up

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