

GENERAL SPECIFICATION

PIPING VALVES VESSELS

GS EP PVV 173

Pneumatic testing of above ground piping systems

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1. Scope

This specification covers the pneumatic strength testing of above ground piping systems. It describes the requirements for the testing procedure and the precautions to be taken.

Pneumatic strength testing is used only for cases where hydrostatic testing is impractical and shall be subject to Company approval (as per **GS EP PVV 171**).

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
EN 837-1	Pressure Gauges - Part 1 Bourdon tube pressure gauges

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published in the applicable yearly collection.

Reference	Title
GS EP EXP 105	Pre-commissioning Execution
GS EP PVV 171	Steel piping fabrication

3. Caution

Pneumatic testing is potentially hazardous, due to the possibility of sudden release of considerable stored energy. It is therefore important that the precautions described in this document are complied with. However, compliance with this specification does not relieve the Contractor of his responsibilities under the local regulations.

4. Preparation for testing

4.1 Equipment and materials

The Contractor shall provide all suitably rated pressure gauges, temperature measuring devices, recording instruments, valves, pipework and hoses for each test.

Each test assembly shall be instrumented to provide a permanent record of internal pressure and metal temperature (on a combined chart) for the duration of the test.