Gas supply systems - Pressure testing, commissioning and decommissioning procedures - Functional requirements

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 12327:2000 sisaldab Euroopa standardi EN 12327:2000 ingliskeelset teksti. Käesolev dokument on jõustatud 17.07.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 12327:2000 consists of the English text of the European standard EN 12327:2000. This document is endorsed on 17.07.2000 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard describes common principles for pressure testing, commissioning and decommissioning of gas supply systems as covered by the European functional standards except for pipework for buildings according to EN 1775.	**Scope:** This standard describes common principles for pressure testing, commissioning and decommissioning of gas supply systems as covered by the European functional standards except for pipework for buildings according to EN 1775.

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Võtmesõnad:

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English version

Gas supply systems – Pressure testing, commissioning and decommissioning procedures

Functional requirements

Systèmes d'alimentation en gaz – Essais de pression, modes opératoires de mise en service et de mise hors service des réseaux d'alimentation en gaz – Prescriptions fonctionnelles

Gasversorgungssysteme – Druckprüfung, In- und Außerbetriebnahme – Funktionale Anforderungen

This European Standard was approved by CEN on 1999-05-06.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 234 "Gas supply", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

There is a complete suite of functional standards prepared by CEN/TC 234 "Gas Supply" to cover all parts of the gas supply system from the point of input of gas to the transmission system up to the inlet connection of the gas appliances, whether for domestic, commercial or industrial purposes.

In preparing this standard a basic understanding of gas supply by the user has been assumed.

Gas supply systems are complex and the importance on safety of their construction and use has led to the development of very detailed codes of practice and operating manuals in the member countries. These detailed statements embrace recognised standards of gas engineering and the specific requirements imposed by the legal structures of the member countries.

1 Scope

This European Standard describes common principles for pressure testing, commissioning and decommissioning of gas supply systems as covered by the European functional standards of the Technical Committee CEN/TC 234 (see Annex B) except for pipework for buildings according to EN 1775. They have been extracted from the detailed codes of practice and operating manuals in the member countries.

The specified procedures are applicable to strength testing, tightness testing and combined testing.

Test pressure levels, test periods and acceptance criteria are not covered by this standard.

Additional measures or different methods of testing, commissioning or decommissioning can be required by legislation of the individual member countries or at the discretion of the pipeline operator.

This European Standard specifies common basic principles for gas supply systems. Users of this European Standard should be aware that more detailed national standards and/or codes of practice can exist in the CEN member countries.

This European Standard is intended to be applied in association with these national standards and/or codes of practice setting out the above mentioned principles.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 837-1 Pressure gauges - Part 1: Bourdon tube pressure gauges - Dimensions, metrology, requirements and testing

EN 837-2 Pressure gauges - Part 2: Selection and installation recommendations for pressure gauges

EN 837-3 Pressure gauges - Part 3: Diaphragm and capsule pressure gauges - Dimensions, metrology, requirements and testing

EN 1775 Gas supply - Gas pipework for buildings - Maximum operating pressure ≤ 5 bar - Functional recommendations

3 Definitions and abbreviations

For the purposes of this European Standard, the following definitions and abbreviations apply:

3.1 authorized person: A competent person who is appointed to fulfill a given task on gas supply systems.

3.2 competent person: A person who is trained, experienced and approved to perform activities relating to gas supply systems .

NOTE: Means of approval, if any, will be determined within each member country.

3.3 competent authority: A body authorized by the member country to ensure that the pipeline operator fulfils the requirements of this and other relevant standards.

3.4 pipeline operator: The private or public organisation authorized to design, construct and/or operate and maintain the gas supply system.

3.5 gas supply system: The pipeline systems including pipework and their associated stations or plants for the transmission and distribution of gas.

3.6 pipeline: A system of pipework with all associated equipment and stations up to the point of delivery. This pipework is mainly below ground but includes also aboveground parts.

3.7 pipework: An assembly of pipes and fittings.

3.8 design pressure (DP): The pressure on which design calculations are based.

3.9 operating pressure (OP): The pressure which occurs within a system under normal operating conditions.

3.10 maximum operating pressure (MOP): The maximum pressure at which a system can be operated continuously under normal operating conditions.

NOTE: normal operating conditions are: no fault in any device or stream.

3.11 maximum incidental pressure (MIP): The maximum pressure which a system can experience during a short time, limited by the safety devices.

3.12 lower explosive limit (LEL): The concentration of flammable gas or vapour in air, below which the gas atmosphere is not explosive.