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ICS 23.040.01

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GAS SUPPLY SYSTEMS - PIPELINES FOR MAXIMUM OPERATING PRESSURE UP TO AND INCLUDING 16 BAR - PART 1: GENERAL FUNCTIONAL RECOMMENDATIONS

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English version

Gas supply systems - Pipelines for maximum operating pressure up to and including 16 bar - Part 1: General functional recommendations

Systèmes d'alimentation en gaz - Canalisations pour pression maximale de service inférieure ou égale à 16 bar - Partie 1: Recommandations fonctionnelles générales

Gasversorgungssysteme - Rohrleitungen mit einem maximal zulässigen Betriebsdruck bis einschließlich 16 bar - Teil 1: Allgemeine funktionale Empfehlungen

This European Standard was approved by CEN on 9 April 1999.

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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of an identical text or by endorsement, at the latest by July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.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 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.

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1 Scope

This European Standard describes the general functional recommendations for pipelines up to the point of delivery, and also for buried sections of pipework after the point of delivery, for maximum operating pressures up to and including 16 bar for gaseous fuels in accordance with table 1 of EN 437:1993 . It applies to their design, construction, commissioning, decommissioning, operation, maintenance, renovation, extension and other associated works.

This European Standard does not apply to the materials, design, construction, testing and commissioning of gas supply systems in use prior to the publication of this standard. However, this European Standard does apply to the operation, maintenance, renovation and extension of all gas supply systems.

Specific functional recommendations for polyethylene pipelines are given in EN 12007-2, for steel pipelines in EN 12007-3 and for the renovation of pipelines in EN 12007-4. Functional recommendations for pipework for buildings are given in EN 1775.

Functional requirements for pressure testing, commissioning and decommissioning are given in EN 12327.

Functional requirements for measuring systems are given in EN 1776.

Functional requirements for pressure regulating stations are given in EN 12186. Functional requirements for pressure regulating installations are given in EN 12279.

Functional requirements for gas transmission are given in EN 1594.

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 basic 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 437: 1993	Test gases - Test pressures - Appliance categories.
EN 1594	Gas supply systems - Pipelines for maximum operating pressure over 16 bar - Functional requirements
EN 1775	Gas supply - Gas pipework for buildings - Maximum operating pressure ≤ 5 bar - Functional recommendations
EN 1776	Gas supply - Natural gas measuring stations - Functional requirements
EN 12007-2	Gas supply systems - Pipelines for maximum operating pressure up to and including 16 bar - Part 2: Specific functional recommendations for polyethylene (MOP up to and including 10 bar)
EN 12007-3	Gas supply systems -Pipelines for maximum operating pressure up to and including 16 bar - Part 3: Specific functional recommendations for steel
EN 12007-4	Gas supply systems - Pipelines for maximum operating pressure up to and including 16 bar - Part 4: Specific functional recommendations for renovation
EN 12186	Gas supply systems - Gas pressure regulating stations for transmission and distribution
EN 12279	Gas supply systems - Gas pressure regulating installations for service lines

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