



NSAI
Standards

Irish Standard
I.S. EN 15001-2:2008

Gas infrastructure - Gas installation pipework with an operating pressure greater than 0,5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations - Part 2: Detailed functional requirements for commissioning, operation and maintenance

I.S. EN 15001-2:2008

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i>	<i>This document is based on:</i> EN 15001-2:2008	<i>Published:</i> 12 November, 2008
This document was published under the authority of the NSAI and comes into effect on: 16 January, 2009		ICS number: 23.040.01 91.140.40
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
Price Code: H		
Údarás um Chaighdeáin Náisiúnta na hÉireann		

ICS 23.040.01; 91.140.40

English Version

Gas infrastructure - Gas installation pipework with an operating pressure greater than 0,5 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations - Part 2: Detailed functional requirements for commissioning, operation and maintenance

Systèmes d'alimentation en gaz - Canalisations d'installation de gaz avec une pression de service supérieure à 0,5 bar pour les installations industrielles et supérieure à 5 bar pour les installations industrielles et non industrielles - Partie 2: Exigences fonctionnelles détaillées pour la mise en service, l'exploitation et la maintenance

Gasversorgungssysteme - Gas-Leitungsanlagen mit einem Betriebsdruck größer 0.5 bar für industrielle Installationen und größer 5 bar für industrielle und nicht-industrielle Installationen - Teil 2: Detaillierte funktionale Anforderungen an Inbetriebnahme, Betrieb und Instandhaltung

This European Standard was approved by CEN on 11 October 2008.

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 CEN Management Centre or to any CEN member.

This European Standard exists 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
3.1 Definitions relating to pressure	5
3.2 Definitions relating to the gas installation	5
3.3 Definitions relating to means of isolation	6
3.4 Definitions relating to components	6
3.5 Definitions relating to tests	7
3.6 Definitions relating to commissioning, operation and maintenance	7
3.7 Definitions relating to pressure regulating and metering	8
4 General	8
4.1 Technical file	8
4.2 Changes affecting an existing installation	9
4.3 Quality system	9
4.4 Protection against hazards	9
4.5 Protection against adverse influences	10
5 Commissioning	10
5.1 General	10
5.2 Purging	10
6 Operation and maintenance	11
6.1 Requirements involving operation and maintenance	11
6.2 Operation	12
6.3 Maintenance	14
Bibliography	21

Foreword

This document (EN 15001-2:2008) 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 May 2009, and conflicting national standards shall be withdrawn at the latest by May 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

There is a complete suite of functional standards prepared by CEN/TC 234 “Gas infrastructure” 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.

In the event of conflicts in terms of more restrictive requirements in national legislation/regulation with the requirements of this standard, national legislation/regulation takes precedence as illustrated in CEN /TR 13737.

NOTE CEN/TR 13737 contains:
- clarification of relevant legislation/regulations applicable in a country;
- if appropriate, more restrictive national requirements;
- national contact point for the latest information.

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.

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

1 Scope

This European Standard specifies detailed functional requirements for the commissioning, operation and maintenance of

- industrial gas installations and assemblies with an operating pressure greater than 0,5 bar and of
- non-industrial gas installations (residential and commercial) with an operating pressure greater than 5 bar,

starting from the outlet of the network operator's point of delivery up to the inlet connection to the gas appliance; normally the inlet isolation valve. This European Standard also covers the inlet connection to the gas appliance comprising of the pipework that does not fall within the scope of the appliance standard.

This standard applies to gas installations operating at ambient temperatures between $-20\text{ }^{\circ}\text{C}$ and $40\text{ }^{\circ}\text{C}$ and operating pressures up to and including 60 bar. For operating conditions outside these limitations, reference should additionally be made to EN 13480 for metallic pipework.

For industrial gas installations up to and including 0,5 bar and for non-industrial (residential and commercial) gas installations up to and including 5 bar EN 1775 applies.

For gas installations that do not fall within the scope of EN 1775 or other European Standards, this European Standard applies.

In this European Standard, the term "gas" refers to combustible gases, which are gaseous at $15\text{ }^{\circ}\text{C}$ and 1 013 mbar absolute atmospheric pressure. These gases are commonly referred to as manufactured gas, natural gas or Liquefied Petroleum Gas (LPG). They are also referred to as first, second or third family gases (see table 1 of EN 437:2003).

LPG storage vessels (including all ancillaries fitted directly to storage vessels) are excluded. Also excluded are LPG installations and sections of LPG installations operating at vapour pressure (e.g. between the storage vessel and its pressure regulator).

In this European Standard, all pressures are gauge pressures unless otherwise stated.

For gas installations within the scope of this standard, national legislation and regulations have to be taken into account.

Functional requirements for design, selection of materials, construction, inspection and testing of industrial gas installations and assemblies with an operating pressure greater than 0,5 bar and of gas installations greater than 5 bar in buildings and areas intended for residential, commercial, public and mixed uses are described in prEN 15001-1.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12954, *Cathodic protection of buried or immersed metallic structures — General principles and application for pipelines*

prEN 15001-1, *Gas installation pipework with an OP greater than 05 bar for industrial installations and greater than 5 bar for industrial and non-industrial installations — Part 1: Detailed functional requirements for design, materials, construction, inspection and testing*

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-