



NSAI
Standards

Irish Standard
I.S. EN 16125:2019

LPG Equipment and Accessories - Pipework systems and supports - LPG in liquid phase and vapour pressure phase

I.S. EN 16125:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 16125:2019 is the adopted Irish version of the European Document EN 16125:2019, LPG Equipment and Accessories - Pipework systems and supports - LPG in liquid phase and vapour pressure phase

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EUROPEAN STANDARD

EN 16125

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2019

ICS 23.040.01

Supersedes EN 16125:2015

English Version

LPG Equipment and Accessories - Pipework systems and supports - LPG in liquid phase and vapour pressure phase

Equipements pour GPL et leurs accessoires - Systèmes de canalisations et supports - Phase liquide et phase vapeur

Flüssiggas-Geräte und Ausrüstungsteile - Rohrleitungssysteme und -befestigungen - Flüssigphase und unregelte Gasphase von Flüssiggas (LPG)

This European Standard was approved by CEN on 28 July 2019.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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



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Contents	Page
European foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	7
4 Design safety considerations	10
5 Materials.....	12
6 Design	14
7 Corrosion protection and identification of above-ground pipework	19
8 Welded pipes and fittings.....	23
9 Inspection and documentation	25
10 Testing.....	26
11 Commissioning.....	29
12 Maintenance.....	29
Annex A (informative) Pipe sizing – liquid phase.....	30
Annex B (informative) Pipe sizing – gas phase	36
Annex C (informative) Pipework Integrity Management Systems (PIMS)	38
Bibliography.....	40

European foreword

This document (EN 16125:2019) has been prepared by Technical Committee CEN/TC 286 “LPG Equipment and Accessories”, the secretariat of which is held by NSAI.

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 March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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

This document supersedes EN 16125:2015.

The main technical changes include:

- the removal of the environmental annex and associated clauses in favour of a reference to CEN/TS 16765,
- the removal of Annex E (*Manufacturing and type testing of composite pipes*) with the intent of developing a dedicated composite pipe manufacturing standard within CEN/TC 155. At the time of this document going to formal vote, the proposed project within CEN/TC 155 is under consideration.

At all stages of building and operating pipework systems the use of materials and disposal of waste material may have an effect on the environment. CEN/TS 16765 [10] sets out environmental considerations for this document.

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

EN 16125:2019 (E)

Introduction

This document calls for the use of substances and procedures that may be injurious to health and/or the environment if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations at any stage.

This document is intended for users who take on the responsibility for the assembly of the pipework on site.

Protection of the environment is a key political issue in Europe and elsewhere. Protection of the environment is taken in a very broad sense, as in the total life cycle aspects of, e.g. a product on the environment, including expenditure of energy and during all phases from mining of raw materials, fabrication, packaging, distribution, use, scrapping, recycling of materials, etc.

It is recommended that manufacturers develop an environmental management policy. For guidance see the ISO 14004 [6]. It has been assumed in the drafting of this document that the execution of its provisions is entrusted to appropriately qualified and experienced people.

All pressures are gauge unless otherwise stated.

NOTE This document uses measurement of material properties, dimensions and pressures. All such measurements are subject to a degree of uncertainty due to tolerances in measuring equipment, etc. It could be beneficial to refer to the leaflet "measurement uncertainty leaflet (SP INFO 2000 27 uncertainty.pdf)" [13].

1 Scope

This document specifies the requirements for the design, construction, testing, commissioning, operation and maintenance of LPG pipework in both the liquid phase and at full vapour pressure.

This document is applicable to LPG pipework having a maximum allowable pressure of less than or equal to 25 bar.

This document is applicable to new LPG pipework as well as to replacements of, or extensions to, existing LPG pipework.

This document is not applicable to:

- pipelines (as defined in 2014/68/EU, PED) and their accessories;
- pipework for the propulsion systems of road vehicles or boats; and
- pipework on ships.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 549, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

EN 751-2, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water – Part 2: Non-hardening jointing compounds*

EN 751-3, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water – Part 3: Unsintered PTFE tapes*

EN 837 (all parts), *Pressure gauges*

EN 1045, *Brazing – Fluxes for brazing – Classification and technical delivery conditions*

EN 1057, *Copper and copper alloys – Seamless, round copper tubes for water and gas in sanitary and heating applications*

EN 1092-1, *Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 1: Steel flanges*

EN 1254-1, *Copper and copper alloys – Plumbing fittings – Part 1: Fittings with ends for capillary soldering or capillary brazing to copper tubes*

EN 1254-2, *Copper and copper alloys – Plumbing fittings – Part 2: Fittings with compression ends for use with copper tubes*

EN 1254-5, *Copper and copper alloys – Plumbing fittings – Part 5: Fittings with short ends for capillary brazing to copper tubes*

EN 1515-1, *Flanges and their joints – Bolting – Part 1: Selection of bolting*

EN 10216-1, *Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 1: Non-alloy steel tubes with specified room temperature properties*

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