



**Irish Standard**  
**I.S. EN 14912:2022**

**Version 3.00**

**LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders**

## I.S. EN 14912:2022 V3.00

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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## **National Foreword**

I.S. EN 14912:2022 V3.00 is the version of the NSAI adopted European document EN 14912:2022, *LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders*, including any Corrections, Amendments etc. to EN 14912:2022.

This normative document by CEN/CENELEC the elaboration of which includes a public enquiry, followed by a Formal Vote of CEN/CENELEC national members and final ratification. This European Standard is published as an identical national standard and every conflicting national standard will be withdrawn. The content of a European Standard does not conflict with the content of any other EN (and HD for CENELEC).

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

**Compliance with this document does not of its self confer immunity from legal obligations.**

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.
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EUROPEAN STANDARD

EN 14912

NORME EUROPÉENNE

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June 2022

ICS 23.060.40

Supersedes EN 14912:2015

English Version

## LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders

Équipements pour GPL et leurs accessoires - Contrôle et entretien des robinets de bouteilles de GPL lors du contrôle périodique des bouteilles

Flüssiggas-Geräte und Ausrüstungsteile - Inspektion und Wartung von Ventilen für Flaschen für Flüssiggas (LPG) zum Zeitpunkt der wiederkehrenden Inspektion der Flaschen

This European Standard was approved by CEN on 8 May 2022.

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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## European foreword

This document (EN 14912:2022) 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 December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.

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 14912:2015.

This document includes the following significant technical changes with respect to EN 14912:2015:

- alignment with the requirement of paragraph 12 of Packing Instruction P200 of ADR;
- introduction of inspection and refurbishment requirements for pressure relief valves;
- in Clause 3: the update of definitions:
  - periodic inspection;
  - minor repair;
  - in 3.11, in replacement of “working pressure definition”, the addition of “pressure relief valve” (as given in EN 13953:2020);
- in 5.2, the external inspection list has been updated;
- in 6.1, the paragraph has been updated;
- in Clause 7:
  - addition of a paragraph “7.1: General”;
  - deletion of old 7.1.3 paragraph;
  - update of old 7.2 (new 7.3) paragraph.

Users are advised to develop an environmental management policy. For guidance, see the EN ISO 14000 series ([1], [2] and [3]). Users of this document are expected to consult CEN/TS 16765 while implementing its requirements.

This document has been submitted for reference in

- the RID and/or
- the technical annexes of the ADR

**NOTE** These regulations take precedence over any clause of this document. It is emphasized that RID/ADR are being revised regularly at intervals of two years which may lead to temporary non-compliances with the clauses of this document.

**I.S. EN 14912:2022 V3.00**  
**EN 14912:2022 (E)**

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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.



## **Introduction**

This document has been prepared to reflect the current methods for periodically inspecting LPG cylinder valves, and is based upon the operating experience of millions of cylinder years of service over a period of more than 50 years.

The primary objective of the periodic inspection of transportable refillable LPG cylinder valves is that, at the completion of the tests, the cylinder valve can be re-introduced into service for a further period of time.

The valve inspection is an integral part of the periodic inspection of an LPG cylinder.

Periodic inspections/tests are intended to be carried out by a competent person under the authorization of an inspection body based on a written scheme of examination.

Protection of the environment is a key political issue in Europe and elsewhere. For CEN/TC 286 this is covered in CEN/TS 16765 and this Technical Specification should be read in conjunction with this document. This Technical Specification provides guidance on the environmental aspects to be considered regarding equipment and accessories produced for the LPG industry and the following is addressed:

- design;
- manufacture;
- packaging;
- use and operation; and
- disposal.

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

It has been assumed in the drafting of this document that the execution of its provisions is entrusted to appropriately qualified and experienced people.

Where judgements are called for, it has been assumed that they are made by competent persons who have been trained specifically for the tasks.

## **1 Scope**

This document specifies the requirements for inspection and maintenance of LPG cylinder valves, either manually operated or self-closing, for reuse. It applies when the valve is either inspected or refurbished at the time of periodic inspection of the cylinder.

This document may also be applied at any other time, for example, when maintenance of the valve is necessary.

## **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 ISO 14245:2021, *Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing (ISO 14245:2021)*

EN ISO 15995:2021, *Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated (ISO 15995:2021)*

ISO 2859-1:1999, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

## **3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### **3.1 liquefied petroleum gas** **LPG**

low pressure liquefied gas composed of one or more light hydrocarbons which are assigned to UN 1011, UN 1075, UN 1965, UN 1969 or UN 1978 only and which consists mainly of propane, propene, butane, butane isomers, butene with traces of other hydrocarbon gases

### **3.2 periodic inspection**

activities carried out at specified intervals, such as examining, measuring, testing or gauging the characteristics of a pressure vessel and comparing these with specified requirements

### **3.3 dismantling**

separation into component parts

### **3.4 minor repair**

operations that include cleaning and replacement of components accessible without any dismantling of the valve (e.g. outlet seal, excess flow device) and does not affect the integrity of the pressure receptacle

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