

Irish Standard I.S. EN 1440:2016

LPG equipment and accessories -Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection

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I.S. EN 1440:2016

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National Foreword

I.S. EN 1440:2016 is the adopted Irish version of the European Document EN 1440:2016, LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection

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February 2016

EN 1440

ICS 23.020.30

Supersedes EN 1440:2008+A1:2012

English Version

LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection

Equipements pour GPL et leurs accessoires - Bouteilles de gaz de pétrole liquéfié (GPL) en acier soudé et brasé transportables et rechargeables - Contrôle périodique

Flüssiggas-Geräte und Ausrüstungsteile -Ortsbewegliche, wiederbefüllbare, herkömmlich geschweißte und hartgelötete Flaschen aus Stahl für Flüssiggas (LPG) - Wiederkehrende Inspektion

This European Standard was approved by CEN on 13 December 2015.

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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.

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EN 1440:2016 (E)

cont	tents	Page		
Europ	oean foreword	4		
introd	duction	5		
1	Scope	6		
2	Normative references	6		
3	Terms and definitions	7		
4	Requirements for periodic inspection	7		
Гable	1 — Requirements for periodic inspection			
5	Inspections and tests			
5.1	General			
5.2	External visual inspection			
5.2.1	Preparation for external visual inspection			
5.2.2	Inspection procedure			
5.2.3	Rejection criteria			
5.2.3 5.3	Proof pressure test			
	<u> </u>			
5.3.1	General			
5.3.2	Hydraulic proof pressure test			
5.3.3	Pneumatic proof test and leak test			
5.4	Check of the internal condition of the cylinder			
5.4.1	Check of the internal condition of welded steel cylinders			
5.5	Inspection of cylinder threads			
5.5.1	General	13		
5.5.2	Internal threads	13		
5.5.3	External threads	13		
5.5.4	Damaged threads	13		
5.6	Inspection of valves	13		
6	Final operations			
6.1	General			
6.2	Valving			
6.3	Tare mass	14		
6.4	Marking	14		
6.5	Purging	14		
7	Repair of welded steel cylinders	14		
7.1	Major repairs	14		
7.2	Minor repairs			
7.3	Requirements for repair			
В	Records			
	x A (normative) Specific requirements for external visual inspection			
	A.1 — Physical defects in the cylinder wall			
	Table A.2 — Corrosion on the cylinder wall			
	A.3 — Other defects			
- 4510		10		

Annex	B (informative) Requirements for 15 year periodic inspection interval for cylinders manufactured before January 1st 2015	19
B.1	General	19
B.2	Concept of control	19
B.3	Conditions	20
Annex	C (normative) Periodic inspection procedure for cylinder populations not covered by the RID/ADR	21
Table	C.1 — Procedures for periodic inspection	21
Annex	D (informative) Requirements to be fulfilled to extend period between two periodic inspections to 15 years for RID/ADR welded steel LPG cylinders	22
D.1	General	22
D.2	Design and manufacturing	22
D.3	Operational provisions	22
D.4	Periodic inspection	22
D.5	Marking	23
Annex	E (informative) Alternative test applicable to commercial butane cylinders with less than 6,5 l water capacity	24
E.1	General	24
E.2	Preparation of cylinder	24
E.3	Procedure	24
Biblio	graphy	25

European foreword

This document (EN 1440:2016) has been prepared by Technical Committee CEN/TC 286 "Liquefied petroleum gas 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 August 2016, and conflicting national standards shall be withdrawn at the latest by August 2016.

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.

This document in conjunction with EN 16728:2016¹ supersedes EN 1440:2008+A1:2012.

This European Standard has been submitted for reference into the RID [1] and the technical annexes of the ADR [2].

NOTE These regulations take precedence over any clause of this standard. 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 standard.

This European Standard deals with the periodic inspection requirements for transportable refillable welded and brazed steel LPG cylinders.

For all other cylinder designs, EN 16728:2016¹ applies.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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¹ To be published in 2016.

EN 1440:2016 (E)

Introduction

The primary objective of the periodic inspection of transportable refillable liquefied petroleum gas (LPG) cylinders is that, on completion of the tests, the cylinders can be re-introduced into service for a further period of time.

The very large populations of traditional steel LPG cylinders in use have led to the development of alternative methods of inspection.

This European Standard has been prepared to reflect the current methodology for periodic inspection of LPG cylinders and is based on extensive operating experience.

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

Protection of the environment is a key political issue in Europe and elsewhere, for CEN/TC 286 this is covered in CEN/TS 16765 [3], and this Technical Specification should be read in conjunction with this standard.

It has been assumed in the drafting of this European Standard that the execution of its provisions is entrusted to appropriately qualified and competent persons.

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

1 Scope

This European Standard specifies procedures for the periodic inspection and testing, of transportable refillable LPG cylinders with a water capacity from 0,5 l up to and including 150 l.

This European Standard is applicable to welded and brazed steel LPG cylinders with a specified minimum wall thickness designed according to EN 1442, EN 12807, EN 13322-1, or equivalent standard (e.g. national codes).

This European Standard is intended to be applied to cylinders complying with RID/ADR (including pi marked cylinders) and also to existing non RID/ADR cylinder populations.

NOTE The requirements of RID/ADR take precedence over those of this standard in the case of cylinders complying with that regulation, including pi marked cylinders.

This European Standard does not apply to cylinders permanently installed in vehicles.

2 Normative references

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

EN 837-1:1996, Pressure gauges - Part 1: Bourdon tube pressure gauges - Dimensions, metrology, requirements and testing

EN 837-3:1996, Pressure gauges - Part 3: Diaphragm and capsule pressure gauges - Dimensions, metrology, requirements and testing

EN 1442, LPG equipment and accessories — Transportable refillable welded steel cylinders for LPG — Design and construction

EN 12807, LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction

EN 12816, LPG equipment and accessories - Transportable refillable LPG cylinders - Disposal

EN 13322-1, Transportable gas cylinders - Refillable welded steel gas cylinders - Design and construction - Part 1: Carbon steel

EN 14894, LPG equipment and accessories - Cylinder and drum marking

EN 14912, LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders

EN ISO 14245, Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing (ISO 14245)

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



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