



SLOVENSKI STANDARD

SIST EN 14894:2011

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Nadomešča:

SIST EN 14894:2006

Oprema in pribor za utekočinjeni naftni plin (UNP) - Označevanje jeklenk in sodov

LPG equipment and accessories - Cylinder and drum marking

Flüssiggas-Geräte und Ausrüstungsteile - Kennzeichnung von Flaschen und Fässern

Équipements pour gaz de pétrole liquéfié et leurs accessoires - Marquage des bouteilles et des fûts à pression

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Ta slovenski standard je istoveten z: EN 14894:2011

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ICS:

23.020.30	Tlačne posode, plinske jeklenke	Pressure vessels, gas cylinders
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EUROPEAN STANDARD

EN 14894

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2011

ICS 23.020.30

Supersedes EN 14894:2006

English Version

LPG equipment and accessories - Cylinder and drum marking

Equipements pour gaz de pétrole liquéfié - Marquage des
bouteilles et des fûts à pressionFlüssiggas-Geräte und Ausrüstungsteile - Kennzeichnung
von Flaschen und Fässern

This European Standard was approved by CEN on 24 March 2011.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 14894:2011) 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 November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.

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 supersedes EN 14894:2006.

The main technical change to this standard is to align the marking requirements with ADR/RID 2011 (see [7] and [8]).

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, 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.

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Introduction

This European Standard calls for the use of substances and procedures that may 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.

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

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1 Scope

This European Standard specifies stamp marking requirements for transportable refillable LPG cylinders and metallic drums including:

- Steel LPG cylinders designed and manufactured in accordance with EN 1442, EN 14140, EN 12807 or an equivalent standard or technical code recognised by the Competent Authority.
- LPG metallic drums designed and manufactured in accordance with EN 14893 or an equivalent standard or technical code recognised by the Competent Authority.
- Welded aluminium LPG cylinders designed and manufactured in accordance with EN 13110 or an equivalent standard or technical code recognised by the Competent Authority.
- LPG composite cylinders designed and manufactured in accordance with EN 14427 or an equivalent standard or technical code recognised by the Competent Authority.

NOTE All these types of receptacles are referred to throughout this standard as “cylinders”.

This standard does not specify any requirements for product, hazard or safety-phrase labelling of packaging which may be required to meet ADR or other legislative requirements.

2 Terms and definitions

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

2.1

liquefied petroleum gas LPG

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 or traces of other hydrocarbon gases.

2.2

stamp marking

permanent or durable markings affixed to the cylinder

2.3

competent authority

authority designated as such in each country in accordance with national regulation

2.4

inspection body

independent inspection and testing body approved by the competent authority

3 Symbols and abbreviations

TPED: Transportable Pressure Equipment Directive

EN 14894:2011 (E)

4 Application of stamp markings

4.1 General

4.1.1 Stamp markings consist of manufacturing, operational and certification stamp marks and are listed in Clause 5, Clause 6, Clause 7 and Clause 8. The layout of the marks is covered by 4.3. Additional markings may be applied if required by other regulations or technical standards, or when required by the cylinder owner; provided the layout does not cause any confusion in their interpretation and the clarity of the other mandatory markings is not affected.

4.1.2 Low stress stamp marking methods shall be utilised.

4.1.3 Stamp markings shall be applied to low stress areas.

4.1.4 Stamp marking shall be in accordance with the requirements of the current version of ADR/RID and with EN 14894. The requirements of ADR/RID shall override conflicting requirements of this standard.

NOTE 1 This may lead to temporary noncompliance with EN 14894.

NOTE 2 The TPED includes additional marking requirements ("π" marking).

4.2 Workmanship

4.2.1 All stamp markings shall be affixed clearly, legibly and durably on the cylinder and shall remain legible under all foreseeable operating and ageing conditions.

— Markings required to be "permanent" shall be such that they can only be removed with the use of special tools and may be done, for example by hard metal stamping, engraving, casting, embossing, encapsulation or other similar methods.

— Markings required to be "durable" shall be such that they remain visible for the relevant period of time and may be done, for example by printing, external labelling, stencilling, use of valve hand-wheel insert or other similar methods.

Clause 5, Clause 6, Clause 7 and Clause 8 indicate which markings shall be "permanent (P)" and which may be "durable (D)".

NOTE Markings which are permitted to be durable may be permanently applied if so desired.

4.2.2 For metallic cylinders, the markings shall be located on the shoulder, top end or neck of the cylinder or on a permanently affixed component, e.g. shroud, handle(s), foot ring, welded nameplate, etc.

4.2.3 If markings are applied after completion of manufacture or following periodic inspection, by stamping or engraving onto the pressure parts of the cylinder, it shall be demonstrated by fatigue and burst tests in accordance with the original design standard or equivalent, that failure does not initiate in the markings.

4.2.4 For composite cylinders, permanent markings may be affixed by use of a printed label encapsulated by either placing it under the resin or by covering it with a permanent transparent coating, on the shoulder or the sidewall of the cylinder (see 4.3).

4.2.5 The characters in the stamp markings shall be at least 5 mm in height. On cylinders with an outside diameter less than 140 mm, this height may be reduced, but in no case shall the characters be less than 2,5 mm in height.

4.2.6 The "II" mark, where applicable, shall have substantially the same vertical dimension as the other stamp markings but shall not be less than 5 mm. If the mark dimensions are changed, the proportions of the drawing shall be maintained.

NOTE The proportions of the “II” mark are specified in the conformity marking drawing in the TPED.

4.3 Arrangements for stamp marking

4.3.1 The markings for manufacturing, operation and certification shall be arranged in three groups as specified in Clause 5, Clause 6 and Clause 7, where the manufacturing marks shall be the top grouping, the operational be the middle grouping and the certification marks be the bottom grouping. The arrangement of additional markings specified in Clause 8, shall be such as to avoid confusion with the markings specified above.

Where relevant the certification marks of Table 4 e.g. the conformity reassessment mark and the TPED conformity mark, shall be applied before or after the certification stamp markings in accordance with Table 3.

NOTE Possible locations of the markings are given in Annex A.

4.3.2 When an identity plate (or label for composite cylinders) is used, all the stamp markings may be on a single plate or label together with any additional markings, provided the layout does not cause any confusion in their interpretation.

5 Manufacturing stamp markings

This grouping of stamp markings shall be permanently applied in the sequence listed in Table 1.

Table 1 — Manufacturing stamp markings
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Mark	Specification	Status	Example
Country mark (of manufacture) ^a	Capital letters. https://standards.iteh.ai/catalog/standards/sist/359487c2-cd9b-4154-b2db-1eb890a9f4f0/sist-en-14894-2011	Mandatory	CH
Manufacturer's mark	Capital letters Manufacturer's identity, logo, symbol or other mark registered with the competent authority.	Mandatory	GASCYL
Manufacturing serial number	Alphanumeric code assigned by the manufacturer to clearly identify the cylinder	Mandatory	A76128
^a Distinguishing signs for motor vehicles in international traffic are prescribed in the Vienna Convention on Road Traffic (1968).			