

**LPG equipment and accessories -
Transportable Liquefied Petroleum Gas
(LPG) welded steel pressure drums with
a capacity between 150 litres and 1 000
litres**

LPG equipment and accessories - Transportable
Liquefied Petroleum Gas (LPG) welded steel
pressure drums with a capacity between 150 litres
and 1 000 litres

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14893:2006 sisaldab Euroopa standardi EN 14893:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.08.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14893:2006 consists of the English text of the European standard EN 14893:2006.</p> <p>This document is endorsed on 30.08.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies the minimum requirements for the material, design, construction, workmanship, equipping, inspection and testing at manufacture of transportable, refillable welded steel pressure drums of volumes over 150 l up to and including 1 000 l for Liquefied Petroleum Gases (LPG).</p>	<p>Scope: This European Standard specifies the minimum requirements for the material, design, construction, workmanship, equipping, inspection and testing at manufacture of transportable, refillable welded steel pressure drums of volumes over 150 l up to and including 1 000 l for Liquefied Petroleum Gases (LPG).</p>
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Võtmesõnad:

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English Version

LPG equipment and accessories - Transportable Liquefied
Petroleum Gas (LPG) welded steel pressure drums with a
capacity between 150 litres and 1 000 litres

Équipements pour GPL et leurs accessoires - Fûts à
pression métalliques transportables pour GPL d'une
capacité comprise entre 150 litres et 1 000 litres

Flüssiggas-Geräte und Ausrüstungsteile - Ortsbewegliche,
geschweißte Druckfässer aus Stahl für Flüssiggas (LPG)
mit einem Fassungsraum zwischen 150 Liter und 1 000
Liter

This European Standard was approved by CEN on 12 June 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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
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Contents

Page

Foreword.....	5
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	8
4 Materials	9
4.1 Suitability.....	9
4.2 Pressure retaining parts	11
4.3 Non-pressure retaining parts	11
4.4 Welding consumables.....	11
4.5 Non-metallic materials (gaskets).....	11
4.6 Certification of materials.....	11
5 Design	11
5.1 General.....	11
5.2 Design conditions.....	12
5.2.1 Calculation pressure	12
5.2.2 Design temperature	12
5.2.3 Vacuum conditions.....	12
5.3 Calculation of thicknesses	12
5.3.1 Calculation.....	12
5.3.2 Minimum thickness for handling.....	12
5.4 Support loadings	13
5.5 Lifting lug loadings.....	13
5.6 Openings	13
5.6.1 General.....	13
5.6.2 Reinforcement.....	13
5.6.3 Position of welds	13
5.6.4 Fittings connections.....	14
5.7 Protection of fittings.....	14
5.7.1 General.....	14
5.7.2 End shrouds.....	14
5.7.3 Protective frame.....	14
5.7.4 Local protection	14
5.8 Rolling hoops	14
5.9 Ventilation openings	14
6 Workmanship and manufacture	15
6.1 General.....	15
6.2 Control and traceability of materials	15
6.3 Manufacturing tolerances	15
6.4 Acceptable weld details	15
6.4.1 General.....	15
6.4.2 Longitudinal welds	15
6.4.3 Joggle joints.....	16
6.5 Formed pressure parts.....	16
6.5.1 General.....	16
6.5.2 Heat treatment after forming	16
6.5.3 Testing of formed parts.....	17
6.5.4 Repeated tests	17

6.5.5	Visual examination and control of dimensions.....	17
6.5.6	Marking.....	18
6.5.7	Test certificate	18
6.6	Welding.....	18
6.6.1	General	18
6.6.2	Welding procedure specification (WPS)	18
6.6.3	Qualification of WPS	18
6.6.4	Qualification of welders and welding personnel.....	18
6.6.5	Preparation of edges to be welded	18
6.6.6	Execution of welded joints	19
6.6.7	Attachments and supports	19
6.6.8	Preheating	19
6.7	Post weld heat treatment.....	19
6.8	Repairs.....	19
6.8.1	Repairs of surface imperfections in the parent metal	19
6.8.2	Repair of weld imperfections	20
7	Inspection and testing	20
7.1	Visual examination of welds	20
7.2	Non-destructive testing (NDT)	20
7.3	Non-destructive testing techniques	21
7.3.1	General	21
7.3.2	Radiographic techniques.....	21
7.3.3	Ultrasonic techniques.....	22
7.3.4	Magnetic particle techniques	22
7.3.5	Penetrant techniques	22
7.4	Marking for all non-destructive testing techniques	22
7.5	Qualification of personnel	22
7.6	Acceptance criteria	22
7.7	Production test plates (coupon plates).....	23
7.8	Impact tests.....	25
8	Final assessment.....	25
8.1	Pressure test.....	25
8.2	Lifting lugs	25
8.3	Final examination	25
9	Surface treatment and finishing	26
9.1	General	26
9.2	Finishing operations	26
10	Fittings.....	26
10.1	General	26
10.2	Leak tightness test.....	27
10.3	Protective frame	27
10.4	Tare weight.....	27
11	Marking.....	27
12	Prototype testing.....	27
12.1	General	27
12.2	Fatigue test	27
12.3	Burst test.....	28
12.4	Drop test.....	28
12.5	Lifting lugs	28
13	Records and documentation.....	28
13.1	Records to be obtained by the manufacturer.....	28
13.2	Documents to be provided by the manufacturer	28
Annex A (informative)	Guidance on selection of material grades	30
Annex B (normative)	Tolerances on drums.....	31
B.1	Mean external diameter.....	31

B.2	Out of roundness	31
B.3	Deviation from the straight line	31
B.4	Irregularities in circular profile	31
B.5	Thickness tolerance	32
B.6	Profile	32
B.7	Surface alignment	33
B.8	Attachments, nozzles and fittings	33
Annex C (normative)	Hydraulic pressure test	34
C.1	Temporary fittings	34
C.2	Pressure gauges	34
C.3	Pressurising agent	34
C.4	Avoidance of shocks	34
C.5	Test procedure	34
Annex D (normative)	Imperfections	35
Annex E (normative)	Design formulae for drums	38
E.1	Allowable stresses	38
E.2	Design formulae	38
E.2.1	General	38
E.2.2	Cylindrical shell calculation	38
E.2.3	Torispherical end calculation	38
E.2.4	Ellipsoidal end calculation	39
E.2.5	Formulae for calculating C	40
E.3	Nozzle re-enforcement	41
E.3.1	General	41
E.3.2	Size of openings	41
E.3.3	Distance between openings or branches	42
E.3.4	Openings and branches	42
E.3.5	Cylindrical shells and dished ends with openings	42
E.3.6	Shell reinforcement	42
E.3.7	Extent of reinforcement	43
E.3.8	Elliptical openings	43
E.3.9	Welded branches	43
E.3.10	Compensating plates	43
E.3.11	Reinforcement — General	43
E.3.12	Reinforcement by pads	43
E.3.13	Reinforcement by branches	44
E.3.14	Branch connections normal to the drum wall	44
Annex F (informative)	Measurement of shell peaking	49
F.1	Profile gauge	49
F.2	Peaking survey	49
Annex G (informative)	Examples of welded joints	52
Bibliography	56

Foreword

This document (EN 14893:2006) 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

This European Standard has been submitted for reference into the RID and/or in the technical annexes of the ADR. Therefore the standards listed in the normative references and covering basic requirements of the RID/ADR not addressed within the present standard are normative only when the standards themselves are referred to in the RID and/or in the technical annexes of the ADR.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

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.

NOTE The maximum capacity of drums is 1 000 l. However the technical requirements of this standard can be applied for the safe design of receptacles larger than 1 000 l although these would not be classed as pressure drums under ADR.

1 Scope

This European Standard specifies the minimum requirements for the material, design, construction, workmanship, equipping, inspection and testing at manufacture of transportable, refillable welded steel pressure drums of volumes over 150 l up to and including 1 000 l for Liquefied Petroleum Gases (LPG).

Vertical and horizontal cylindrical receptacles are covered.

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 287-1, *Qualification test of welders - Fusion welding - Part 1: Steels*

EN 462-3, *Non-destructive testing — Image quality of radiographs — Part 3: Image quality classes for ferrous metals*

EN 473, *Non-destructive testing – Qualification and certification of NDT personnel - General principles.*

EN 549, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

EN 571-1, *Non destructive testing - Penetrant testing - Part 1: General principles*

EN 756, *Welding consumables - Solid wires, solid wire-flux and tubular cored electrode-flux combinations for submerged arc welding of non alloy and fine grain steels - Classification*

EN 758, *Welding consumables - Tubular cored electrodes for metal arc welding with and without a gas shield of non alloy and fine grain steels - Classification*

EN 837-2, *Pressure gauges - Part 2: Selection and installation recommendations for pressure gauges*

EN 875, *Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination*

EN 876, *Destructive tests on welds in metallic materials - Longitudinal tensile test on weld metal in fusion welded joints*

EN 895, *Destructive tests on welds in metallic materials - Transverse tensile test*

EN 910, *Destructive tests on welds in metallic materials - Bend tests*

EN 970, *Non-destructive examination of fusion welds — Visual examination*

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

EN 1290, *Non-destructive examination of welds - Magnetic particle examination of welds*

EN 1321, *Destructive tests on welds in metallic materials - Macroscopic and microscopic examination of welds*

EN 1418, *Welding personnel – Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanised and automatic welding of metallic materials*

EN 1435, *Non-destructive examination of welds - Radiographic examination of welded joints*

EN 14893:2006 (E)

EN 1668, *Welding consumables - Rods, wires and deposits for tungsten inert gas welding of non alloy and fine grain steels - Classification*

EN 1708-1, *Welding - Basic weld joint details in steel - Part 1: Pressurized components*

EN 1714, *Non-destructive examination of welds - Ultrasonic examination of welded joints*

EN 10028-1, *Flat products made of steels for pressure purposes - Part 1: General requirements*

EN 10028-2, *Flat products made of steels for pressure purposes — Part 2: Non-alloy and alloy steels with specified elevated temperature properties*

EN 10028-3, *Flat products made of steels for pressure purposes — Part 3: Weldable fine grain steels, normalized*

EN 10028-5, *Flat products made of steels for pressure purposes - Part 5: Weldable fine grain steels, thermomechanically rolled*

EN 10045-1, *Metallic materials — Charpy impact test — Part 1: Test method*

EN 10204, *Metallic products – Types of inspection documents*

EN 13153, *Specification and testing of LPG cylinder valves - Manually operated*

EN 13175, *Specification and testing for Liquefied Petroleum Gas (LPG) tank valves and fittings*

EN 13799, *Contents gauges for LPG tanks*

EN 14894, *LPG equipment and accessories – Cylinder and drum marking*

EN ISO 2560, *Welding consumables - Covered electrodes for manual metal arc welding of non-alloy and fine grain steels - Classification (ISO 2560:2002)*

EN ISO 6520-1, *Welding and allied processes - Classification of geometric imperfections in metallic materials - Part 1: Fusion welding (ISO 6520-1:1998)*

EN ISO 15609-1, *Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 1: Arc welding (ISO 15609-1:2004)*

EN ISO 15613, *Specification and qualification of welding procedures for metallic materials - Qualification based on pre-production welding test (ISO 15613:2004)*

EN ISO 15614-1, *Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1:2004)*

ISO 9162, *Petroleum products - Fuels (Class F) - Liquefied Petroleum Gases - Specifications*

ANSI/ASME B1.20.1, *Pipe threads, general purpose (inch) issued by American National Standards Institute on 1983*

3 Terms and definitions

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

3.1

LPG (Liquefied Petroleum Gas)

mixture of predominantly butane or propane with traces of other hydrocarbon gases classified in accordance with UN number 1965, hydrocarbon gases mixture, liquefied, NOS or UN 1075, petroleum gases, liquefied