

Specification and testing of LPG cylinder valves — Manually operated

The European Standard EN 13153:2001, with the incorporation of amendment A1:2003, has the status of a British Standard

ICS 23.020.30; 23.060

National foreword

This British Standard is the official English language version of EN 13153:2001, including amendment A1:2003.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted to Technical Committee PVE/19, LPG containers and their associated fittings, which has the responsibility to:

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English version

**Specification and testing of LPG cylinder valves —
Manually operated**
(includes amendment A1:2003)

Spécifications et essais des robinets de bouteilles
de GPL — Fermeture manuelle
(inclut l'amendement A1:2003)

Spezifikation und Prüfung für Flüssiggas-(LPG-)
Flaschenventile — Handbetätigt
(enthält Änderung A1:2003)

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Introduction

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.

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

Foreword

This European Standard 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of an identical text or by endorsement, at the latest by June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

In this standard the annexes A, B and D are normative and the annex C is informative.

The 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Foreword to amendment A1

This document EN 13153:2001/A1:2003 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 2003, and conflicting national standards shall be withdrawn at the latest by November 2003.

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This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports the objectives of the framework Directives on Transport of Dangerous Goods.

This European Standard has been submitted for reference into the RID and/or in the technical annexes of the ADR. Therefore in this context 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

1 Scope

This European Standard specifies the requirements for design, specification and type testing of manually operated cylinder valves specifically for use with LPG. It includes references to associated equipment for vapour or liquid service.

NOTE Annex C gives the recommendations for production testing and inspection.

This European Standard applies to manually operated valves fitted to transportable refillable LPG cylinders from 0,5 l up to 150 l water capacity intended to convey LPG only.

This European Standard does not apply to fixed automotive installations.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

EN 629-1, *Transportable gas cylinders – 25E taper thread for connection of valves to gas cylinders – Part 1: Specification.*

EN ISO 11116, *Gas cylinders – 17E taper thread for connections of valves to gas cylinders – Part 1 Specifications.*

EN 12164, *Copper and copper alloys – Rod for free machining purposes.*

EN 12165, *Copper and copper alloys – Wrought and unwrought forging stock.*

prEN 12864, *Low pressure, non adjustable regulators having a maximum outlet pressure of less than or equal to 200 mbar with a capacity of less than or equal to 4 kg/h, and their associated devices for butane, propane or their mixtures.*

prEN 13175, *Specifications and testing for Liquefied Petroleum Gas (LPG) tank valves.*

prEN 13953, *Pressure relief valves for transportable refillable cylinders for liquefied petroleum gas (LPG).*

3 Terms and definitions

For the purposes of this **Error! Reference source not found.**, the following terms and definitions apply.

3.1

LPG

mixture of light hydrocarbons, gaseous under standard atmospheric conditions, which can be liquefied by increased pressure or decreased temperature. The main components are A_1 propane, propene, butane and butene isomers A_1

3.2

cylinder valve

valve designed for use in one or more of the following applications: liquid filling, liquid service, vapour service or liquid level indication