

Transportable gas cylinders (excluding LPG) — Procedures for change of gas service

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British Standard

ICS 23.020.30

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English version

Transportable gas cylinders (excluding LPG) — Procedures for change of gas service

Bouteilles à gaz transportables (GPL exclus) —
Procédures pour le changement de service

Ortsbewegliche Gasflaschen (ausgenommen LPG) —
Verfahren für den Wechsel der Gasart

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 23, Transportable gas cylinders, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 1998, and conflicting national standards shall be withdrawn at the latest by April 1998.

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.

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0 Introduction

It is occasionally desirable to change gas cylinders from one gas service to another. Certain of these service changes can be made quite easily, while others require a careful inspection of the interior and exterior of the cylinder, and consideration of its compatibility with the new gas service. Cylinders are manufactured in accordance with EN Standards and are intended for use with a variety of gases under specified filling conditions.

This standard has been prepared to assist those engaged in the filling of gas cylinders in changing cylinders from one gas service to another.

1 Scope

This European Standard applies to all refillable gas cylinders including tubes (water capacity greater than 150 l) and specifies requirements which shall be considered whenever a cylinder is being transferred from one gas service to another.

This European Standard does not apply to cylinders for liquefied petroleum gas (LPG), dissolved acetylene or radioactive gases.

NOTE. The exclusion of LPG from the scope of this standard relates to substances carried under the UN identification number 1965 'Hydrocarbon gas mixture, liquefied, N.O.S.' (see 'Recommendations on the Transport of Dangerous Goods', published by the United Nations).

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.

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| EN 720-2 : 1996 | <i>Transportable gas cylinders — Gases and gas mixtures Part 2: Determination of flammability and oxidizing ability of gases and gas mixtures</i> |
| prEN 1802 : 1995 | <i>Transportable gas cylinders — Periodic inspection and testing of seamless aluminium gas cylinders (excluding LPG)</i> |

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| prEN 1803 : 1995 | <i>Transportable gas cylinders — Periodic inspection and testing of welded steel gas cylinders (excluding LPG)</i> |
| prEN 1968 : 1995 | <i>Transportable gas cylinders — Periodic inspection and testing of seamless steel gas cylinders (excluding LPG)</i> |
| prEN 1975 : 1995 | <i>Transportable gas cylinders — Specification for the design and construction of refillable transportable seamless aluminium alloy gas cylinders of capacity from 0,5 litres up to and including 150 litres</i> |
| prEN ISO 11114-1 : 1997 | <i>Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents Part 1: Metallic materials</i> |
| prEN ISO 11114-3 : 1997 | <i>Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents Part 3: Test methods</i> |

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 competent person

Person who has the necessary technical knowledge and experience to assess the requirements for the safe change of service of cylinders from one gas (or gas mixture) service to another, to specify the equipment used for that operation and to provide appropriate instructions for the change of service operation.

3.2 experienced person

Person who is trained and has the necessary skills to undertake the change of service operations specified by the competent person.

3.3 compatibility

Term which relates to the interaction of the gas and cylinder/cylinder equipment which comes into contact with the gas under the conditions of use. Hence, the term compatible implies a satisfactory gas/cylinder/cylinder equipment combination.

3.4 non-destructive test (NDT)

Test method other than a hydrostatic pressure test, which has the capability of detecting potentially hazardous areas of weakness, such as cracks in the cylinder material of construction. Examples of NDT method are (shear-wave) ultrasonic and acoustic emission.