



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 1803:2002

ICS 23.020.30

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

**TRANSPORTABLE GAS CYLINDERS -
PERIOD INSPECTION AND TESTING OF
WELDED CARBON STEEL GAS CYLINDERS**

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on
March 15, 2002*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2002

Price Code I

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1803

February 2002

ICS 23.020.30

English version

**Transportable gas cylinders - Periodic inspection and testing of
welded carbon steel gas cylinders**

Bouteilles à gaz transportables - Contrôles et essais
périodiques des bouteilles à gaz soudées en acier au
carbone

Ortsbewegliche Gasflaschen - Wiederkehrende Prüfung
von geschweißten Gasflaschen aus Kohlenstoffstahl

This European Standard was approved by CEN on 8 November 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

| | page |
|--|-----------|
| Foreword | 3 |
| Introduction | 4 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Intervals between periodic inspection and test | 6 |
| 4 List of procedures for periodic inspection and test | 6 |
| 5 Identification of cylinder and preparation for inspection and test | 7 |
| 6 External visual inspection | 7 |
| 7 Internal visual inspection | 8 |
| 8 Supplementary tests | 8 |
| 9 Inspection of cylinder neck | 8 |
| 10 Pressure test | 9 |
| 11 Repair of cylinders | 9 |
| 12 Inspection of valve | 10 |
| 13 Final operations | 10 |
| 14 Rejection and rendering cylinder unserviceable | 12 |
| Annex A (informative) Gas cylinders manufactured according to National Regulations | 13 |
| Annex B (normative) Inspection periods | 15 |
| Annex C (normative) Description, evaluation of defects and conditions for rejection of welded carbon steel gas cylinders at time of visual inspection | 16 |
| Annex D (normative) Procedure to be adopted when a cylinder valve is suspected to be obstructed | 20 |
| Annex E (normative) Proof pressure test of gas cylinders | 23 |
| Annex F (informative) Inspection and maintenance of valves and their connections: recommended procedures | 24 |
| Annex G (informative) List of commonly used gases corrosive to cylinder material | 25 |
| Bibliography | 26 |

Foreword

This document EN 1803:2002 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 August 2002, and conflicting national standards shall be withdrawn at the latest by August 2002.

In this standard the annexes B, C, D and E are normative and the annexes A, F and G informative.

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 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 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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 1803:2002 (E)

Introduction

The principal aim of a periodic inspection and testing procedure is that at the completion of the test the cylinders may be reintroduced into service for a further period of time.

Experience of the inspection and testing of cylinders which is specified in this European Standard is an *important* factor when determining whether a cylinder should be returned into service.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-