



National Standards Authority of Ireland

IRISH STANDARD

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ICS 23.060.40

**TRANSPORTABLE GAS CYLINDERS -  
CYLINDER VALVES - SPECIFICATION AND  
TYPE TESTING**

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**TRANSPORTABLE GAS CYLINDERS -  
CYLINDER VALVES - SPECIFICATION AND  
TYPE TESTING - AMENDMENT 1**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 849/A1**

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ICS

Descriptors:

**English version**

**Transportable gas cylinders - Cylinder valves - Specification and type testing**

Bouteilles à gaz transportables - Robinets de  
bouteilles - Spécifications et essais de type

Ortsbewegliche Gasflaschen - Gasflaschen-Ventile -  
Spezifikation und Typprüfungen

This amendment modifies the European Standard EN 849:1996.

It has been drawn up by Technical Committee CEN/TC 23

It was adopted by CEN on xx-xx-xx

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.

This draft European Standard was established by CEN 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 standard bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

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

**Central Secretariat : rue de Stassart 36, B-1050 Brussels**

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## **Foreword**

This Amendment EN 849:1996/A1:1999 to EN 849:1996 has been prepared by Technical Committee CEN/TC 23 "Transportable gas cylinders", the secretariat of which is held by BSI.

This Amendment to the European Standard EN 849:1996 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 1999, and conflicting national standards shall be withdrawn at the latest by October 1999.

This amendment to EN 849 has been prepared to clarify certain important parameters and aspects of testing cylinder valves in accordance with EN 849, 5.4.4.

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.

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.

## **5. Prototype valve test**

### **5.4.4 Endurance test**

*Add a new paragraph to the end of 5.4.4 as follows :*

"For further details see annex C".

## **Annex C**

*Add the new annex C as follows :*

## **Annex C (normative)**

### **Endurance test**

#### **C.1. Test valves**

Valves to be tested shall be at room temperature  $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ . They will have been aged in accordance with the procedure specified in table 1.

#### **C.2. Test medium**

The endurance test shall be carried out with dry air or nitrogen filtered to at least  $20\text{ }\mu\text{m}$  and at a dew point of less than  $-40\text{ }^{\circ}\text{C}$  at atmospheric pressure.

NOTE : if nitrogen is used the risks of asphyxiation should be considered if a major leak occurs.

Tests shall not be carried out in a waterbath or other liquid medium.

#### **C.3. Test machine**

##### **C.3.1 Equipment**

Figure C.1 shows a typical arrangement of test equipment.

##### **C.3.2 Speed and application of torque**

The test machine shall be able to open and close the test valves at a rotational speed between 10 and 30 revolutions per minute.

At the end of the closing part of the test cycle, overtorque due to dynamic effects shall be no more than 10 % of the set figure (ie. no more than twice the tolerance given in C.4.2).

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