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Irish Standard  
I.S. EN ISO 11117:2008

# Gas cylinders - Valve protection caps and valve guards - Design, construction and tests (ISO 11117:2008)

## I.S. EN ISO 11117:2008

*Incorporating amendments/corrigenda/National Annexes issued since publication:*  
EN ISO 11117:2008/AC:2010

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Bouteilles à gaz - Chapeaux fermés et  
chapeaux ouverts de protection des  
robinets - Conception, construction et  
essais - Rectificatif technique 1 (ISO  
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Gasflaschen - Ventilschutzkappen und  
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Ce corrigendum prendra effet le 14 avril 2010 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 14. April 2010 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



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

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## **Foreword**

This document (EN ISO 11117:2008/AC:2010) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with Technical Committee CEN/TC 23 "Transportable gas cylinders" the secretariat of which is held by BSI.

### **Endorsement notice**

The text of ISO 11117:2008/Cor 1:2009 has been approved by CEN as a EN ISO 11117:2008/AC:2010 without any modification.



**I.S. EN ISO 11117:2008  
INTERNATIONAL STANDARD ISO 11117:2008  
TECHNICAL CORRIGENDUM 1**

Published 2009-05-01

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## **Gas cylinders — Valve protection caps and valve guards — Design, construction and tests**

### **TECHNICAL CORRIGENDUM 1**

*Bouteilles à gaz — Chapeaux fermés et chapeaux ouverts de protection des robinets — Conception, construction et essais*

*RECTIFICATIF TECHNIQUE 1*

Technical Corrigendum 1 to ISO 11117:2008 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

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*Page 2, Subclause 4.2*

The following paragraph shall be inserted between the current paragraphs 3 and 4.

If the guard is fixed only to the valve and not fixed to the cylinder then the valve type shall pass the valve impact test of ISO 10297 because in this situation the valve to cylinder connection shall carry the impact load. Therefore its capability to resist impact needs to be verified.

English Version

Gas cylinders - Valve protection caps and valve guards -  
Design, construction and tests (ISO 11117:2008)

Bouteilles à gaz - Chapeaux fermés et chapeaux ouverts  
de protection des robinets - Conception, construction et  
essais (ISO 11117:2008)

Gasflaschen - Ventilschutzkappen und Ventilschutzkörbe -  
Auslegung, Bau und Prüfungen (ISO 11117:2008)

This European Standard was approved by CEN on 7 February 2008.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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**Foreword.....3**



## **Foreword**

This document (EN ISO 11117:2008) has been prepared by Technical Committee ISO/TC 58 "Gas cylinders" in collaboration with 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 March 2009, and conflicting national standards shall be withdrawn at the latest by March 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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### **Endorsement notice**

The text of ISO 11117:2008 has been approved by CEN as EN ISO 11117:2008 without any modification.



**I.S. EN ISO 11117:2008**  
**INTERNATIONAL**  
**STANDARD**

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**11117**

Second edition  
2008-09-01

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**Gas cylinders — Valve protection caps  
and valve guards — Design, construction  
and tests**

*Bouteilles à gaz — Chapeaux fermés et chapeaux ouverts de protection  
des robinets — Conception, construction et essais*



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## **Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 11117 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

This second edition cancels and replaces the first edition (ISO 11117:1998) which has been technically revised.

## **Introduction**

This International Standard covers devices intended for the protection of gas cylinder valves, where such protection is required, for example, where the valve is unable to meet the impact test requirements of the relevant valve standard to allow safe transport, handling and storage without such protection.

This International Standard specifies the principal dimensions, requirements for fitment and drop test procedure, to confirm the provision of adequate valve protection, in the event of the occurrence of a cylinder toppling from its base.





# Gas cylinders — Valve protection caps and valve guards — Design, construction and tests

## 1 Scope

This International Standard specifies the requirements for valve protection caps and guards for gas cylinders.

This International Standard defines tests for checking the mechanical strength and physical properties of the valve protection cap or valve guard.

This International Standard applies to protection devices for valves used on cylinders for liquefied, dissolved or compressed gases. This International Standard excludes protection devices for cylinders with a water capacity of 5 l or less and cylinders whereby the protection device is fixed by means of lugs welded or brazed to the cylinder, or is welded or brazed directly to the cylinder. This International Standard does not cover valve protection for breathing apparatus cylinders.

This International Standard does not specify all the requirements that may be necessary to enable the valve protection device to be used for lifting the cylinder.

## 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.

ISO 10297, *Transportable gas cylinders — Cylinder valves — Specification and type testing*

ISO 14245, *Gas cylinders — Specifications and testing of LPG cylinder valves — Self-closing*

ISO 15995, *Gas cylinders — Specifications and testing of LPG cylinder valves — Manually operated*

## 3 Terms and definitions

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

### 3.1

#### **valve protection cap**

#### **cap**

device securely fixed over the valve during handling, transportation and storage and which is removed for access to the valve

### 3.2

#### **valve guard**

#### **guard**

device protecting the valve during handling, transportation, storage

NOTE The guard need not be removed to provide access to the valve.

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