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EUROPEAN STANDARD

EN 1089-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1996

ICS 23.020.30

Descriptors: gas cylinders, designation, marking, labelling, colour marking, colour codes

English version

Transportable gas cylinders - Gas cylinder
identification (excluding LPG) - Part 1:
Stampmarking

Bouteilles à gaz transportables
Identification de la bouteilles à gaz (à
l'exclusion du GPL) - Partie 1: Marquage

Ortsbewegliche Gasflaschen -
Gasflaschen-Kennzeichnung (ausgenommen LPG) -
Teil 1: Stempelung

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This European Standard was approved by CEN on 1996-06-20. 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.

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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 draft 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of an identical text or by endorsement, at the latest by May 1997, and conflicting national standards shall be withdrawn at the latest by May 1997.

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).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

This European Standard is a three part standard, belonging to a series of standards specifying gas cylinder identification requirements.

- Part 1: Stampmarking;
- Part 2: Precautionary labels;
- Part 3: Colour coding.

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1 Scope

This European Standard specifies stampmarking of refillable transportable gas cylinders of volume up to and greater than 150 L, including:

- steel and aluminium gas cylinders;
- gas cylinders of composite construction;

These being hereinafter referred to as "cylinders".

Stampmarking of LPG cylinders is not covered by this standard.

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 629-1: | Transportable gas cylinders - 25E Taper thread for connection of valves to gas cylinders
Part 1: Specification |
| EN ISO 11116 | Transportable gas cylinders - 17E Taper thread for connection of valves to gas cylinders - Specification |
| EN 10088-1 | Stainless steels
Part 1: List of stainless steels |
| prEN/ISO 11114-1: | Transportable gas cylinders - compatibility of cylinder and valve materials with gas content
Part 1: Metallic materials |
| ISO 3166 | Codes for the representation of names of countries |

3 Definitions

For the purposes of this standard, the following definition applies:

3.1 Stampmarking: Permanent markings, applied to the cylinders by hard metal stamping, engraving, casting or other similar methods. In the case of composite cylinders, some permanent markings may be achieved by use of a printed label, placed in the resin.

4 Application of stampmarkings

4.1 General

All mandatory stampmarkings are listed in the following tables:

Table 1: Manufacturing stampmarkings (stampmarking No. 1 to No. 14);

Table 2: Operational stampmarkings (stampmarking No. 15 to No. 24).

Additional markings may be applied as requested by the cylinder owner, provided the layout does not cause any confusion in their interpretation or in the interpretation and clearness of the other mandatory markings.

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4.2 Workmanship

The stampmarkings, shown in table 1 and table 2 shall be stamped durably and legibly on a reinforced part of the cylinder. For welded steel cylinders some stampmarkings may appear on a welded identity plate, or any other part permanently attached to the cylinder and not subjected to gas pressure.

For composite cylinders some stampmarkings may be printed on a label, to be placed in the resin (see 4.3)

The characters in the stampmarkings should normally be at least 5 mm in height. On small cylinders with an outside diameter 140 mm, this height may be reduced, but in no case shall the characters be less than 2,5 mm in height.

The stamps used for marking shall have such radii as are necessary to prevent the formation of sharp notches. This radius shall be a minimum of 0,2 mm.

4.3 Arrangements of stampmarkings

The mandatory stampmarkings shown in table 1 and table 2 shall be grouped on one side of the shoulder of the cylinder (front). Any additional stampmarkings may be stamped on the other side (rear). Stampmarkings required to be checked at the time of filling shall be grouped together. The lower part of the rear side shall be kept free for periodic inspection markings (see annex A).

When an identity plate (or label for composite cylinders) is used, all the stampmarkings may be on a single plate (or label) provided that the layout does not cause any confusion, in their interpretation, and follows generally the requirements of table 1 and table 2.

For composite cylinders, when a label in the resin is used, the manufacturer's identification and the manufacturing serial number shall appear on the shoulder in conformity with annex A.

The arrangement of the stampmarkings shall be as shown in annex A.

When it is difficult to comply with annex A, a different arrangement, of the stampmarking, may be used subject to the approval of the inspection authority. This different arrangement shall not cause any confusion in interpretation. In such a case stampmarkings may be on a permanently attached part (for example on the neck ring), with the exception of the manufacturer's identification and manufacturing serial number which shall comply with annex A.

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