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Gas cylinders - Outlet connections for gas cylinder valves for compressed breathable air - Part 1: Yoke type connections

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 12209-1:2001 sisaldab Euroopa standardi EN ISO 12209-1:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 04.04.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 12209-1:2001 consists of the English text of the European standard EN ISO 12209-1:2000.</p> <p>This document is endorsed on 04.04.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This part of EN ISO 12209 specifies the characteristics of the yoke type outlet connections for gas cylinders valves for compressed breathable air cylinders, up to a maximum cylinder working pressure of 230 bar. It states the fundamental requirements for both the connection and its components and includes basic dimensions.</p>	<p>Scope: This part of EN ISO 12209 specifies the characteristics of the yoke type outlet connections for gas cylinders valves for compressed breathable air cylinders, up to a maximum cylinder working pressure of 230 bar. It states the fundamental requirements for both the connection and its components and includes basic dimensions.</p>
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Võtmesõnad: bottles, bow closure, closures, compressed gas, compressed gases, dimensions, gas cylinder valves, gas cylinders, gas technology, gases, inhaled air, medical technology, medicine, side support, valves

ICS 23.060.40

English version

Gas cylinders

**Outlet connections for gas cylinder valves for
compressed breathable air**

Part 1: Yoke type connections
(ISO 12209-1 : 2000)

Bouteilles à gaz – Raccords de sortie
pour robinets de bouteilles à gaz
pour air comprimé respirable –
Partie 1: Raccords du type à étrier
(ISO 12209-1 : 2000)

Ortsbewegliche Gasflaschen – Ventil-
seitenstutzen für Gasflaschenventile
für verdichtetes Atemgas –
Teil 1: Bügelanschluss
(ISO 12209-1 : 2000)

This European Standard was approved by CEN on 2000-11-15.

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 Central Secretariat or to any CEN member.

The European Standards exist 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.

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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

Foreword

International Standard

ISO 12209-1 : 2000 Gas cylinders – Outlet connections for gas cylinder valves for compressed breathable air – Part 1: Yoke type connections,

which was prepared by ISO/TC 58 'Gas cylinders' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 23 'Transportable gas cylinders', the Secretariat of which is held by BSI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by May 2001 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 12209-1 : 2000 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

1 Scope

This part of ISO 12209 specifies the characteristics of the yoke type outlet connections for gas cylinder valves for compressed breathable air cylinders, up to a maximum cylinder working pressure of 230 bar. It states the fundamental requirements for both the connection and its components and includes basic dimensions.

Annex A gives the outlet connection prototype qualification test procedures.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 12209. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 12209 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 10297, *Gas cylinders — Cylinder valves — Specification and type testing*.

ISO 11114-1, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 1: Metallic materials*.

3 General requirements

Figure 1 shows the yoke type connection in the assembled state.

The valve outlet and O-ring dimensions are shown in Figure 2 and given in Table 1, and the yoke dimensions are shown in Figure 3 and given in Table 2.

No outer dimensions are given for the yoke. However, they shall be chosen such that the yoke can resist a torque applied via the screw of 20 N·m without visible permanent deformation of the thread and/or the yoke. In addition, the tests described in annex A shall be carried out. The volume within the dotted lines shown in the yoke drawing on Figure 3 shall not be obstructed by other parts, in such a way that the yoke would not fit over the valve.

The requirements for material specifications, gas/material compatibility, valve prototype testing are covered in the relevant standards, for example ISO 10297 and ISO 11114-1.