INTERNATIONAL STANDARD

ISO 12209-2

First edition 2000-11-15

Gas cylinders — Outlet connections for gas cylinder valves for compressed breathable air —

Part 2:

Threaded connections

Bouteilles à gaz — Raccords de sortie pour robinets de bouteilles à gaz pour air comprimé respirable —

Partie 2: Raccords filetés



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Printed in Switzerland

Con	ntents	Page
Forev	word	iv
1	Scone	1

1	Scope	
2	Normative references	
3	General requirements	
3.1	General	1
3.2	300 bar valve	2
3.3	300 bar off-take connection	3
3.4	300 bar filling connection	4
3.5	230 bar valve	6
3.6	230 bar off-take connection	
3.7	230 bar filling connection	8
4	Marking	
Anne	ex A (normative) Outlet connection prototype qualification test procedures	10
	ography	

ototype qualificance.

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 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO 12209 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

was prepared by Technical Committee ISO/TC 58, Gas cylinders, International Standard ISO 12209-2 Subcommittee SC 2, Cylinder fittings.

orenew oenerated by this ISO 12209 consists of the following parts, under the general title Gas cylinders — Outlet connections for gas cylinder valves for compressed breathable air:

- Part 1: Yoke type connections
- Part 2: Threaded connections
- Part 3: Adaptor for 230 bar valves

Annex A forms a normative part of this part of ISO 12209.

Gas cylinders — Outlet connections for gas cylinder valves for compressed breathable air —

Part 2:

Threaded compections

1 Scope

This part of ISO 12209 specifies the characteristics of the threaded type outlet connections for gas cylinder valves for compressed breathable air cylinders, up to a maximum cylinder working pressure of 230 bar and 300 bar. It states the fundamental requirements for both the connection and its components and includes basic dimensions.

This part of ISO 12209 is not applicable to connections described in EN 144-2[1].

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 arrendments 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 reference to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 228-1:2000, Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation.

ISO 2768-1:1989, General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications.

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

3.1 General

Basic dimensions for the connections and components are shown on Figures 1, 3, 5, 6, 8 and 10 and are specified in Tables 1, 2, 3, 4, 5 and 6 respectively.

Unless otherwise specified, the general tolerances of form and position shall be in accordance with class m of ISO 2768-1:1994.

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