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

**Part 1:
Yoke type connections**

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

Partie 1: Raccords du type à étrier



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview generated by EVS

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

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.

International Standard ISO 12209-1 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

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.

This document is a preview generated by EVS

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

Part 1: Yoke type connections

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.