

This is a preview of "ISO 10460:2018". [Click here to purchase the full version from the ANSI store.](#)

Third edition
2018-09

Corrected version
2019-04

Gas cylinders — Welded aluminium-alloy, carbon and stainless steel gas cylinders — Periodic inspection and testing

Bouteilles à gaz — Bouteilles à gaz soudées en alliage d'aluminium, carbone et acier inoxydable — Contrôles et essais périodiques



Reference number
ISO 10460:2018(E)

© ISO 2018

This is a preview of "ISO 10460:2018". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of "ISO 10460:2018". [Click here to purchase the full version from the ANSI store.](#)

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Intervals between periodic inspection and testing	2
5 Periodic inspection and testing procedures	2
5.1 General.....	2
5.2 Depressurization and devalving procedures.....	3
5.2.1 Depressurization.....	3
5.2.2 Devalving.....	3
5.3 External visual inspection.....	3
5.3.1 General.....	3
5.3.2 Preparation.....	3
5.3.3 Procedure.....	4
5.3.4 Inspection result.....	4
5.4 Internal visual inspection.....	5
5.4.1 General.....	5
5.4.2 Preparation.....	5
5.4.3 Cleaning.....	5
5.4.4 Inspection result.....	5
5.5 Cylinder neck inspection.....	6
5.5.1 Cylinder-to-valve threads.....	6
5.5.2 Other neck surfaces.....	6
5.5.3 Neckring and/or collar attachment.....	7
5.6 Pressure test.....	7
5.6.1 General.....	7
5.6.2 Test equipment.....	8
5.6.3 Test criteria.....	8
5.6.4 Acceptance criteria.....	9
5.7 Cylinder repair.....	9
5.7.1 General.....	9
5.7.2 Major repairs.....	9
5.7.3 Minor repairs.....	9
5.8 Inspection of valve and other accessories.....	9
5.9 Final operations.....	9
5.9.1 Drying, cleaning, painting and coating.....	9
5.9.2 Cylinder revalving.....	10
5.9.3 Cylinder tare check.....	10
5.9.4 Cylinder marking after periodic inspection and testing.....	10
5.9.5 Reference to next periodic inspection and testing date.....	11
5.9.6 Reports.....	11
5.10 Rejection and rendering cylinders unserviceable.....	11
Annex A (informative) Intervals between periodic inspections and tests	13
Annex B (informative) Gas cylinder periodic inspection date rings	14
Annex C (normative) Description and evaluation of imperfections and conditions for rejection at visual inspection	15
Annex D (informative) Gases corrosive to carbon steel cylinders	21
Bibliography	22

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements of gas cylinders*.

This third edition cancels and replaces the second edition (ISO 10460:2005), which has been technically revised.

The main changes compared to the previous edition are as follows:

- inclusion of text to evaluate welded aluminium-alloy and welded stainless steel cylinders;
- removal of conformity assessment requirements;
- deletion of text on blocked valves as this edition now references a specific standard.

This corrected version of ISO 10460:2018 incorporates the following correction:

- In Table C.1, in the fourth column of the "Stamping" row, the "c" at the end of "Render unserviceablec" has been changed to superscript to lead to a footnote at the bottom of the table.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This is a preview of "ISO 10460:2018". [Click here to purchase the full version from the ANSI store.](#)

Introduction

This document contains requirements that reflect current practice and experience.

This document provides information and procedures for the periodic inspection and testing of welded cylinders and the condition of the test equipment. The principal aim of periodic inspection and testing is that at the satisfactory completion of the inspection the cylinders may be reintroduced into service for a further period of time.

This document has been written so that it is suitable to be referenced in the UN *Model Regulations*^[1].