AS 2470—2005
Reconfirmed 2016

AS 2470—2005

Australian Standard™

Steel cylinders for compressed gases—Welded three-piece construction with longitudinal joint—11 kg to 150 kg

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee ME-002, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 16 May 2005.
This Standard was published on 29 June 2005.

The following are represented on Committee ME-002:

Air Conditioning and Refrigeration Wholesalers Association
Australasian Institute of Engineer Surveyors
Australian Chamber of Commerce and Industry
The Australian Gas Association
Australian Liquefied Petroleum Gas Association
Certification Bodies (Australia)
Department for Administrative and Information Services, S.A.
Fire Protection Association of Australia
Institute of Materials Engineering Australasia
Pressure Equipment Associated Incorporated
Victorian WorkCover Authority
Welding Technology Institute of Australia
WorkCover New South Wales

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to the Chief Executive, Standards Australia, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 04567.

STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 2470—2005
Steel cylinders for compressed gases—Welded three-piece construction with longitudinal joint—11 kg to 150 kg

RECONFIRMATION NOTICE

Technical Committee ME-002 has reviewed the content of this publication and, in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 21 July 2016.

The following are represented on Technical Committee ME-002:

Australasian Fire and Emergency Service Authorities Council
Australia New Zealand Industrial Gas Association
Australian Chamber of Commerce and Industry
Engineers Australia
Environmental Protection Authority New Zealand
Fire Protection Association Australia
Gas Energy Australia
Gas Technical Regulators Committee
International Accreditation New Zealand
National Association of Testing Authorities Australia
SafeWork NSW
The Australian Gas Association
Welding Technology Institute of Australia
Worksafe New Zealand
WorkSafe Victoria

NOTES

Australian Standard™

Steel cylinders for compressed gases—Welded three-piece construction with longitudinal joint—11 kg to 150 kg

Originated as part of AS B15—1950.
Previous edition AS 2470—1998.
Fifth edition 2005.

Published by Standards Australia, GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6786 9

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee ME-002, Gas Cylinders to supersede AS 2470—1998, *Steel cylinders for compressed gases—Welded three-piece construction with longitudinal joint—11 kg to 150 kg*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard, rather than an Australian/New Zealand Standard.

The objective of this revision is to align the radiographic inspection requirements to those of ISO 4706, *Refillable welded steel gas cylinders*.

This Standard is one of a suite of three Standards for welded and brazed cylinders for compressed gases, the other Standards being as follows:

AS	
2469	Steel cylinders for compressed gases—Welded two-piece construction—0.1 kg to 150 kg
3577	Steel cylinders for compressed gases—Welded—150 kg to 500 kg

This Standard provides for gas cylinders produced in large quantities. Users of this Standard should note that a competent person will require quality control procedures to be employed at the point of manufacture in Australia. For cylinders manufactured overseas, a recognized third party inspection body will witness the inspection and tests. Sampling and testing at the point of entry into Australia may be required. It should also be noted that before a gas cylinder can be first filled in Australia it must be stamped with a Certified Gas Cylinder Test Station registered mark in accordance with the relevant Standard in the AS 2030 series.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

CONTENTS

STANDARDS AUSTRALIA

Australian Standard

Steel cylinders for compressed gases—Welded three-piece construction with longitudinal joint—11 kg to 150 kg

1 SCOPE

This Standard specifies requirements for welded carbon and stainless steel cylinders with one longitudinal and two circumferential joints, of water capacity not less than 11 kg and not more than 150 kg, which have test pressures from 1750 kPa to 7000 kPa, and are intended for the storage and transport of compressed gases in accordance with AS 2030.1.

NOTES:

1 A gas cylinder manufactured by welding but which includes any brazing of, or on, the pressure-retaining portions is, for the purpose of this Standard, considered to be a brazed gas cylinder.

2 Other Australian Standards for brazed and welded gas cylinders are AS 2468, AS 2469 and AS 3577.

3 Appendix A lists the suggested minimum information that should be supplied by the purchaser when ordering gas cylinders to this Standard.

2 REFERENCED DOCUMENTS

A list of documents referred to in this Standard is given in Appendix B.

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 2030.1 and those below apply.

3.1 Attachment

Any fitting attached to the pressure-retaining sections of the cylinder by welding, including bosses, pads, valve protection rings and foot rings.

3.2 Competent person

A person who has acquired through training, qualification or experience, or a combination of these, the knowledge and skills enabling that person to perform the task required.

3.3 Inspection Body

A body responsible for inspection, which may cover one or more of the following:

(a) Design verification.

(b) Fabrication inspection.

(c) In-service inspection.

3.4 Inspector

A person able to inspect pressure equipment for the purposes of conformity with the specified requirements.