

Australian Standard[®]

Gas cylinders

Part 1: General requirements



This Australian Standard® was prepared by Committee ME-002, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 16 December 2008. This Standard was published on 28 January 2009.

The following are represented on Committee ME-002:

- Australasian Institute of Engineer Surveyors
 - Australia New Zealand Industrial Gas Association
 - Australian Chamber of Commerce and Industry
 - Australian Gas Association
 - Australian Industry Group
 - Australian Steel Association
 - Department of the Premier and Cabinet, SafeWork SA
 - Fire Protection Association of Australia
 - International Association for Natural Gas Vehicles
 - LPG Australia
 - Materials Australia
 - Pressure Equipment Association
 - Victorian WorkCover Authority
 - Welding Technology Institute of Australia
 - WorkCover New South Wales
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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AS 2030.1—2009

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Part 1: General requirements

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PREFACE

This Standard was prepared by the Australian members of Joint Australia/New Zealand Standards Committee ME-002, Gas Cylinders, to supersede (in part) AS 2030.1—1999, *The verification, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases, Part 1: Cylinders for compressed gases other than acetylene*. 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.

This edition introduces the following changes:

- (a) The main title of the AS 2030 series has been changed and simplified to more accurately reflect the scope of the Standard.
- (b) To clarify the application of the AS 2030 series, the scope of the previous edition of AS 2030.1 has been divided between this Standard (AS 2030.1) and a new Standard, AS 2030.5. This edition of AS 2030.1 essentially contains Clauses 1 to 4 and 10 from the previous edition.

AS 2030.1 applies to all gas cylinders, containing requirements for design, manufacture and inspection (including conformity assessment), requirements to be met prior to the first fill and other issues applicable to all cylinders.

AS 2030.5 applies to refillable cylinders (except for acetylene, which remains in AS 2030.2), and contains additional requirements for filling, inspection (periodic and non-periodic) and other issues related to refillable cylinders.

- (c) Many terms have been re-defined to harmonize with the terminology of the *Australian Code for the Transport of Dangerous Goods by Road and Rail* (ADG Code), which in turn takes its definitions from *UN Model Regulations on the Transport of Dangerous Goods*.

Of necessity, some terms have definitions that are not the same as the ADG Code.

Of these the most significant are the following:

- (i) This Standard retains the generic term ‘gas cylinder’. The corresponding ADG Code term ‘transportable pressure receptacle’ is generally equivalent to a gas cylinder as defined in this Standard, except that a transportable pressure receptacle may include certain items which are built to a general pressure vessel code, whereas such items are specifically excluded from the scope of this Standard.
- (ii) This Standard also retains the generic term ‘welded gas cylinder’, rather than the ADG Code term ‘pressure drum’, because ‘pressure drum’ may include general pressure vessels.

Appendix C provides a comparison of the definitions used in this Standard, AS 2030.1—1999 and the ADG Code.

Note that some gases formerly classified as compressed (permanent) are now classified as high pressure liquefied gases.

- (d) Clause 4 from the previous edition has been expanded and clarified to address in more detail cylinder design and manufacture, manufacturing and inspection, filling for the first time in Australia, and periodic inspection. Requirements for inspection bodies now are given, as well as guidance on assessing the competence of design verifiers.

- (e) Requirements for certified gas cylinder test stations (set out in AS 2337.1) have been clarified and some associated terminology has been updated to reflect current issues.

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.

IT SHOULD BE NOTED THAT COMPLIANCE WITH THIS STANDARD MAY NOT NECESSARILY FULFILL ALL LEGAL OBLIGATIONS.

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