

Australian Standard™

**The verification, filling, inspection,
testing and maintenance of
cylinders for storage and
transport of compressed gases**

**Part 1: Cylinders for compressed
gases other than acetylene**

This Australian Standard was prepared by Committee ME-002, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 12 February 1999 and published on 5 April 1999.

The following interests are represented on Committee ME-002:

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Airconditioning and Refrigeration Wholesalers Association
Australasian Railway Association
Australian Association of Certification Bodies
Australian Chamber of Commerce and Industry
Australian Chamber of Manufactures
Australian Gas Association
Australian Liquefied Petroleum Gas Association
Boiler and Pressure Vessel Manufacturers Association of Australia
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AS 2030.1—1999
(Incorporating Amendment No. 1)

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Originated as part of AS CB4—1931.
Previous edition AS 2030.1 —1989.
Third edition 1999.
Reissued incorporating Amendment No. 1 (March 2002).

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

ISBN 0 7337 2574 0

PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee ME-002, Gas Cylinders, to supersede AS 2030.1—1989, *The approval, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases, Part 1: Cylinders for compressed gases other than acetylene* and AS 2030 Supplement 1—1986, *Foreign gas cylinder specifications*. It is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

This Standard incorporates Amendment No. 1 (March 2002). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This edition introduces changes as follows:

- (a) Scheme name change to now be known as ‘The Standards Australia Certificated Gas Cylinder Test Station Scheme’. Test stations within the scheme will now be given a ‘Certificate of Conformity’ to display within the test station.
- (b) All references to approval of new designs of cylinders or batch testing of imported or locally manufactured cylinders by the State or Territory regulatory authorities have been deleted from the Standard. Therefore, to bridge this gap where it may occur, the following apply:
 - (i) Where State and Territory regulatory authorities do not undertake design verification, design registration or design notification services, a design identification and design record library is to be introduced. In States or Territories where design verification, design registration or design notification is undertaken by the relevant authorities, the design identification and design record library will not apply.

The object of either scheme in Item (b)(i) is of design and verification traceability, so that continued compressed gas cylinder safety is maintained throughout Australia.
 - (ii) Introduction of integrated gas cylinder test stations (IGTS) to allow manufacturers with a certificated gas cylinder test station and an appropriate quality control system to mark their own product to comply with the requirements of this Standard.
- (c) The scope of the Standard has been expanded to cater for cylinders up to 3000 kg water capacity bringing it into line with ISO and CEN gas cylinders Standards.
- (d) The appendices in the previous edition relating to acceptable Australian and foreign Standards have been deleted, and the manufacturing section expanded to enable cylinders built to worldwide compressed gas cylinder Standards, with suitable safeguards, to enter gas traffic in Australia in the spirit of free trade.
- (e) Ultrasonic testing as alternative non-destructive test method is introduced and may be used in certain circumstances. Details of this method of inspection are given in AS 2337.1, *Gas cylinder test stations, Part 1: General requirements, inspection and tests—Gas cylinders*.
- (f) Corrections are made to Appendix B, listing maximum developed pressure for certain gases at a range of filling pressures.
- (g) Cylinders which entered traffic prior to 1 January 1997, which have an approved design, and bear an approved gas cylinder station stamp, will continue to be accepted for traffic, provided they continue to pass the tests specified in the AS 2337 series of Standards, irrespective of the Standard to which they were manufactured.

After 1 January 1997, cylinders complying with pre-existing design verification or design registration issued by the State or Territory regulatory authorities are acceptable as complying with the requirements of this Standard provided that the quality requirements of the organizations mentioned in Clause 4.1 are met.

Also details of the State and Territorial regulatory authorities as principal inspecting authorities have been deleted.

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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