AS 2337.1—2004
Reconfirmed 2016

AS 2337.1—2004

Australian Standard™

Gas cylinder test stations

Part 1: General requirements, inspection and tests—Gas cylinders

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 11 June 2004.
This Standard was published on 30 August 2004.

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 Ltd
Pressure Equipment Association Incorporated
Victorian WorkCover Authority
Welding Technology Institute of Australia
WorkCover New South Wales

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STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 2337.1—2004
Gas cylinder test stations
Part 1: General requirements, inspection and tests—Gas cylinders

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™

Gas cylinder test stations

Part 1: General requirements, inspection and tests—Gas cylinders

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PREFACE

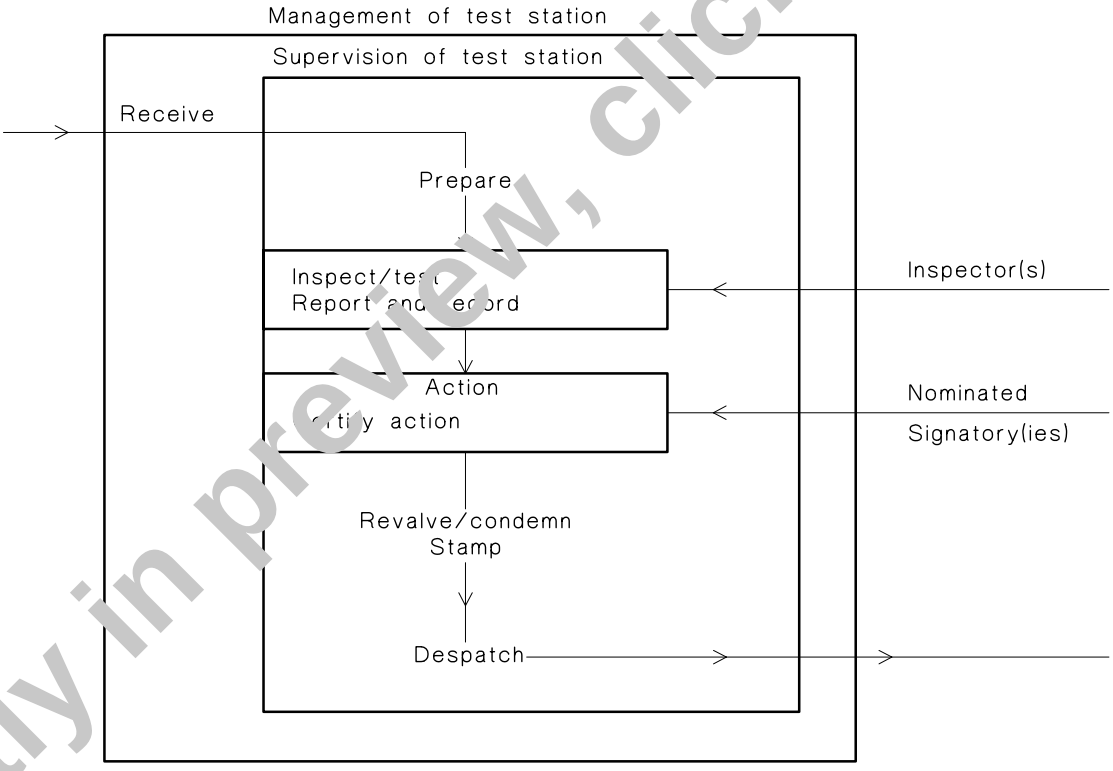
This Standard was prepared by the Australian members of the Joint Australia/New Zealand Standards Committee ME-002, Gas Cylinders to supersede AS 2337.1—1999. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard, rather than an Australian/New Zealand Standard.

The objective is to provide gas cylinder test station operators with the requirements and procedures to carry out initial and periodic inspections to comply with regulatory needs.

This revision has arranged the steps in inspecting and testing gas cylinders in a similar way to those in ISO/DIS 6406, although significant differences still exist between the two Standards. The Committee is trying to align as far as possible, Australian Standards for gas cylinders with those prepared by ISO/TC 58 Gas Cylinders.

The division of functions within a test station has caused some difficulties where the titles of personnel do not match the positions of the organization in which the test station operates. It is necessary to cater for different types of organization, from one person to a large operation with activities other than cylinder testing.

The diagram given below may help explain the intended function.



NOTE: The boxes show minimum tasks that may be taken up by the nominated person where this will not interfere with her/his primary responsibility.

A certificated gas cylinder test station scheme is operated by the appropriate Certification Organizations in Australia. Certification Organizations carry out the initial assessment and periodic audits.

From 1995 there has been, and will continue to be, a phasing out of State and Territory regulatory authorities approving and verifying compressed gas cylinder design and testing and a phasing in of competent bodies or persons to undertake this task.

The Standard removes references to matters of approval with regard to the State and Territorial regulatory authorities. Gas cylinder test stations will be given certificates of conformity with the appropriate Standard instead of approval. These changes align with the changes that have taken place within AS 2030.1. The Standard also introduces a new concept regarding testing. Acoustic emission test methods are introduced as an alternative to traditional hydraulic testing for tubes made to specified DOT Standards. This complements utltrasonic examination as recognized test methods based in newer technologies.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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 FULFIL ALL LEGAL REQUIREMENTS.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements and procedures for a gas cylinder test station to carry out initial and periodic inspection of gas cylinders covered by AS 2030.1. It also specifies requirements for test stations to obtain a certificate of conformity.

Specific requirements for inspection and testing of LP Gas fuel vessels, applied in accordance with AS/NZS 1425, and composite (FRP) gas cylinders, are given in AS 2337.2 and AS 2337.3.

NOTE: Appendix G provides flowcharts to illustrate testing procedures.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
1349 Bourdon tube pressure and vacuum gauges

2030 The verification, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases
2030.1 Part 1: Cylinders for compressed gases other than acetylene

2337 Gas cylinder test stations
2337.2 Part 2: LP Gas fuel vessels for automotive use
2337.3 Part 3: Inspection and testing of fibre reinforced plastics (FRP) gas cylinders

2381 Electrical equipment for explosive atmospheres—Selection, installation and maintenance
2381.7 Part 7: Intrinsic safety i

2473 Valves for compressed gas cylinders (threaded outlet)

2613 Safety devices for gas cylinders

3848 Filling of portable gas cylinders
3848.2 Part 2: Filling of portable cylinders for self-contained underwater breathing apparatus (SCUBA) and non-underwater self-contained breathing apparatus (SCBA)—Safe procedures

MP 48 Certificated gas cylinder test stations

AS/NZS
1425 LP Gas fuel systems for vehicle engines

2739 Natural gas (CNG) fuel systems for vehicle engines

ASTM
E1419 Examination of seamless gas-filled pressure vessels using acoustic emission