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(*) see inside cover for
to Appendix D

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GAS CYLINDER TEST STATIONS

STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter



THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Aluminium Development Council
Australasian Steamship Owners Federation
Australian Chamber of Commerce
Australian Liquefied Petroleum Gas Association
Australian Underwater Federation
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Department of the Capital Territory
Department of Defence
Department of Industrial Affairs and Employment, S.A.
Department of Industrial Relations and Technology, N.S.W.
Department of Labour and Industry, Vic.
Department of Labour and Industry, W.A.
Department of Labour and Industry, Tas.
Department of Labour Relations, Qld.
Department of Mines and Energy, Northern Territory
Railways of Australia Committee

This standard, prepared by Committee ME/2, Gas Cylinders, was approved on behalf of the Council of the Standards Association of Australia on 10 January 1980, and was published on 1 March 1980.

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AUSTRALIAN STANDARD

GAS CYLINDER TEST STATIONS

AS 2337-1980

First published (as AS CB22)	1966
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PREFACE

This standard was prepared by the Association's Committee on Gas Cylinders as a revision of AS CB22—1969, which it accordingly supersedes. It incorporates further experience gained in the application of that standard through the SAA Approved Gas Cylinder Test Stations Scheme.

There are no fundamental changes in this revision, but most clauses have been added to or reworded for clarity. Requirements for equipment and procedures are given in greater detail. The test report has more mandatory items, and existing test stations may need to modify their report. The listing of approved test stations is in a Supplement to the standard for ease of updating. New appendices have been added to illustrate a typical test report, and the surface defects. AS B257, Hydrostatic Stress Testing of Compressed Gas Cylinders, in revised form, has been incorporated into the standard as an appendix; accordingly AS B257 is now withdrawn.

The SAA Approved Gas Cylinder Test Station Scheme now covers over 85 test stations. This standard applies to test stations equipped to inspect, test, and certify cylinders covered by Part I of AS 2030, SAA Gas Cylinders Code.

Approval of test stations under the SAA Approved Gas Cylinder Test Station Scheme is the subject of joint agreement between SAA and the relevant co-operating Statutory Authority (usually a State Department of Labour and Industry or equivalent Department). Approved test stations that fail to observe the requirements of this standard can and have had the approval withdrawn or suspended.

Enquiries on the application of this standard and registration of test stations under the Association's approval scheme should be directed to the Association's head office.

This standard requires reference to the relevant specifications for gas cylinders and to the following standards:

- | | |
|---------|---|
| AS 1349 | Bourdon Tube Pressure and Vacuum Gauges |
| AS 2030 | SAA Gas Cylinders Code |
| AS B240 | Valve Fittings for Compressed Gas Cylinders |

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
GAS CYLINDER TEST STATIONS

1 SCOPE. This standard sets out the requirements and procedures which gas cylinder test stations must meet, to be approved under the terms and conditions of this standard to carry out initial and periodic inspection and testing of gas cylinders covered by AS 2030, Part 1, which are intended for use in Australia.

NOTE: Part 1 of AS 2030 applies to cylinders for compressed gases other than acetylene.

2 APPROVAL OF TEST STATIONS. Test stations shall satisfy the Standards Association of Australia that they are competent and capable of complying with the requirements and procedures of this standard.

On granting of approval, a certificate is issued that names the test station manager, approved signatories, and categories of cylinders that may be tested by the station. That certificate shall be displayed in a prominent position within the test station.

The terms and conditions of approval require the registered owner(s) of the test station to enter into and uphold the conditions of a specific undertaking. Failure to comply with the requirements and procedures of this standard may result in the withdrawal of approval of the test station, in which case the certificate shall be returned to the Standards Association of Australia.

3 MANAGEMENT AND PERSONNEL.

3.1 General. Each approved test station shall have nominated personnel of each of the following roles:

Manager
Approved Signatory(ies)
Supervisor
Inspector(s)

The number of personnel shall be appropriate to the amount of inspection work carried out and the extent of other duties for which each person is responsible.

The nominated responsible persons shall comply with the requirements specified in Clauses 3.2 to 3.5.

NOTE: In high production situations, e.g. cylinder manufacture, a suitable inspection and testing scheme and adequate supervision may allow use of general operators as inspectors. In certain circumstances one person may be named for several roles, and this is a common practice.

3.2 Manager. The manager shall be qualified for the position, as indicated by previous relevant experience and technical qualification. The manager shall be—

- (a) responsible for the overall operation of the test station;

- (b) responsible for ensuring that all requirements specified in relevant standards are complied with;
- (c) knowledgeable (in general) of the hazards, test methods, inspection procedures, and testing equipment associated with compressed gas cylinders;
- (d) familiar with the general requirements (as appropriate to the approval granted) of standards and regulations for gas cylinders inspected and tested by the test station;
- (e) authorized to sign test result work sheets where a final test report is not issued;
- (f) not impaired in the executing of responsibilities other than duties extraneous to the operation of the test station.

3.3 Approved Signatory(ies). The approved signatory(ies) shall be familiar with the detailed requirements (as appropriate to the approval granted) of standards and regulations for gas cylinders inspected and tested by the test station. The approved signatory(ies) is(are) the only person(s) authorized to sign test reports, and are listed on the approval certificate.

3.4 Supervisor. The supervisor shall be qualified for the position, as indicated by previous experience in the examination of gas cylinders (at least 2 years is preferable). The supervisor shall be—

- (a) responsible for the direct supervision of cylinder inspectors, and the maintenance of procedures, equipment, calibration records, and duplicate test report records;
- (b) knowledgeable (in detail) of the hazards, test methods, inspection procedures, and testing equipment associated with compressed gas cylinders;
- (c) familiar with the detailed requirements (as appropriate to the approval granted) of standards and regulations for gas cylinders inspected and tested by the test station;
- (d) normally located within, or close to the test station area, and not impaired in the execution of responsibilities by other duties extraneous to the operation of the test station.

3.5 Inspector(s). The inspector(s) shall be—

- (a) adequately trained to differentiate between acceptable and unacceptable gas cylinders (in all aspects of testing undertaken by the test station);
- (b) instructed on the hazards associated with inspecting of gas cylinders;
- (c) familiar with inspection procedures.