

Australian Standard™

**Installation and use of inert gases for
beverage dispensing**

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 26 September 2005.

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Air Conditioning and Refrigeration Wholesalers Association
Australasian Institute of Engineer Surveyors
Australia New Zealand Industrial Gas Association
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Liquefied Petroleum Gas Association
Department for Administrative and Information Services, S.A.
Fire Protection Association of Australia
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RECONFIRMATION

OF

AS 5034—2005

Installation and use of inert gases for beverage dispensing

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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.

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NOTES

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PREFACE

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

In the preparation of this Standard, significant input from the Beverage Dispensing Industry was made through direct participation in Working Group ME-002-05-03, Inert Gases.

The Committee recognized there was a need to give specific guidance to the designers, installers, users, maintainers, inspectors, hirers and owners of pressurized beverage equipment beyond the general principles of Risk Assessment required in the handling of Dangerous Goods.

The objective of this Standard is to ensure the safety of owners, hirers and users when operating compressed inert gas systems and equipment for beverage dispensing.

Users of this Standard are reminded that it has no legal authority in its own right, but acquires legal standing where adopted by government or other authority having jurisdiction, or if specified as part of a commercial contract.

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.

NOTE THAT FULL COMPLIANCE WITH THIS STANDARD MAY NOT NECESSARILY FULFIL ALL LEGAL OBLIGATIONS.

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STANDARDS AUSTRALIA

Australian Standard

Installation and use of inert gases for beverage dispensing

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND APPLICATION

1.1.1 Scope

This Standard specifies the requirements for the design, location and installation, testing, commissioning, safe use and maintenance of the compressed inert gas or refrigerated liquid equipment and reticulated and portable systems necessary to dispense beverages.

NOTE: This Standard does not supersede any 'duty of care' which may be prescribed on owners and users by regulation.

1.1.2 Application

In recognition of this Standard, existing equipment should be assessed for risk, and control measures should be implemented.

Current installed equipment should be updated to conform to this Standard. Compliance improvements should be made within a time frame that takes into consideration the cost of upgrading and the associated risk levels. Where compliance improvements are not associated with significant safety issues it is recommended that they should be implemented as follows:

- (a) Non-naturally ventilated areas, by end of 2007.
- (b) Gas operated pumps requiring exhausting to outside areas, by end of 2007.
- (c) All other areas requiring compliance improvements, by end of 2011.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
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| 1210 | Pressure vessels |
| 1271 | Safety valves, other valves, liquid level gauges and other fittings for boilers and unfired pressure vessels |
| 1319 | Safety signs for the occupational environment |
| 1449 | Bourdon tube pressure and vacuum gauges |
| 1804 | The storage and handling of non-flammable cryogenic and refrigerated liquids |
| 2030 | The verification filling, inspection, testing and maintenance of cylinders for storage and transport of compressed gases |
| 2030.1 | Part 1: Cylinders for compressed gases other than acetylene |
| 2030.4 | Part 4: Welded cylinders—Insulated |
| 2441 | Installation of fire hose reels |
| 2473 | Valves for compressed gas cylinders (threaded outlet) |