

# **Gas cylinder test stations**

Part 3: Transportable gas cylinders

— Periodic inspection and testing
of composite cylinders (ISO
11623:2015, MOD)



#### AS 2337.3:2020

Weld Australia

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The following are represented on Committee ME-002:

Victoria WorkCover Authority (WorkSafe Victoria)

Australasian Fire and Emergency Service Authorities Council Australasian Institute of Engineer Surveyors
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Australia New Zealand Industrial Gas Association
Australian Chamber of Commerce and Industry
Australian Gas Association
Australian Industry Group
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### **Preface**

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee ME-002, Gas Cylinders, to supersede AS 2337.3—2006, Gas cylinder test stations, Part 3: Transportable gas cylinders — Periodic inspection and testing of composite gas cylinders (ISO 11623:2002, MOD).

The objective of this Standard is to specify the requirements for periodic inspection and testing and to verify the integrity for further service of hoop-wrapped and fully-wrapped composite transportable gas cylinders, with aluminium-alloy, steel or non-metallic liners or of linerless construction (Types 2, 3, 4, and 5), intended for compressed, liquefied or dissolved gases under pressure, of water capacity from  $0.5 \, \text{L}$  up to  $450 \, \text{L}$ .

This Standard is written to address the periodic inspection and testing of composite cylinders constructed to ISO 11119-1, ISO 11119-2, and ISO 11119-3 standards and can be applied to other composite cylinders designed to comparable standards when authorized by the competent authority.

As far as practicable, this Standard also can be applied to cylinders of less than 0.5 L water capacity.

This Standard provides the Australian gas industry with a clearer understanding of cylinder testing and cylinder test station requirements in relation to the acceptable test methods for composite cylinders. The proposed change will improve alignment between the AS 2337 series and the AS 2030 series, and also with ISO standards and the current generation of composite cylinders designed to those standards. It is expected that this will result in improved efficiencies for gas cylinder operations and testing organisations in Australia, particularly those required to test composite gas cylinders used in the medical sector and other life-saving applications.

The major changes in this edition are as follows:

- (a) Resolves the current contradiction between AS 2337.1 and the AS 2030 series and ISO standards, eliminate ambiguity and the potential for differing interpretations of composite cylinder testing requirements.
- (b) Updates the Normative References to include relevant Australian Standards and replace ISO standards with Australian Standards.

A list of all parts in the AS 2337 series can be found in the Standards Australia online catalogue.

This Standard is an adoption with national modifications, and has been reproduced from, ISO 11623:2015, *Gas cylinders – Composite construction – Periodic inspection and testing*. The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to ISO 11623:2015 for the application of this Standard in Australia.

As this document has been reproduced from an International Standard, the following applies:

- (i) In the source text "this International Standard" should read "this Australian Standard".
- (iii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms "normative" and "informative" are used in Standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

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