

Australian Standard™

**Pressure equipment—Examination and
testing**

This Australian Standard was prepared by Committee ME/1, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 16 August 1999 and published on 5 September 1999.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4037—1999

Pressure equipment—Examination and testing

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Technical Committee ME-001 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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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 13 October 2015.

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NOTES

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Pressure equipment—Examination and testing

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/1, Pressure Equipment to supersede AS 4037—1992, *Boilers and pressure vessels—Examination and testing*.

This Standard is the result of a consensus among representatives on the Joint Committee to produce it as a Joint Australian/New Zealand Standard. Consensus means general agreement by all parties. Consensus includes an attempt to remove all objections and implies much more than the concept of a simple majority, but not necessarily unanimity. It is consistent with this meaning that a member may be included in the Committee list and yet not be in full agreement with all clauses of this Standard.

The objective of this Standard is to reduce misunderstanding, costs and delays in non-destructive examination, improve safety, prevent unnecessary duplication of tests and promote greater confidence in reciprocal acceptance of approved procedures.

This Standard is one of the ‘core’ documents which form part of the revised arrangement of the pressure equipment Standards under the umbrella of AS/NZS 1200, *Pressure equipment*.

The first issue of the Standard unified and replaced the requirements for the non-destructive examination methods of test and the qualification of non-destructive examination personnel specified in AS 1210, *Pressure vessels*, AS 1228, *Pressure equipment—Boilers* and AS 4041, *Pressure piping*. This revised issue is utilized by direct reference in the above Standards.

The main changes in this revision are as follows:

- Incorporation of Amendment No.1 to AS 4037—1992.
- Updated referenced documents.
- Recognition of moves to self-regulation in the pressure equipment industry.
- Replacement of inspection authority with inspection body and introduction of testing body.
- Alignment with AS/NZS 3992 and AS 4458.
- Recognition for automatic non-destructive examination (NDE).
- Introduction of time of flight diffraction (ToFD) ultrasonic examination.
- Introduction of requirements for acoustic emission.
- Editorial improvements and clarification in various areas.
- Clarification of NDE for boiler tube.
- Provision for non-destructive examination of non-metallic materials.

Statements referred in mandatory terms in notes to tables and figures 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.

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