

Australian/New Zealand Standard™

## Gas appliances

### Part 1.2: Gas fired water heaters for hot water supply and/or central heating



## **AS/NZS 5263.1.2:2016**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee AG-001, Gas Appliances. It was approved on behalf of the Council of Standards Australia on 23 December 2015 and on behalf of the Council of Standards New Zealand on 23 December 2015.

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Consumers Federation of Australia  
Energy Efficiency and Conservation Authority of New Zealand  
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### Part 1.2: Gas fired water heaters for hot water supply and/or central heating

Originated in Australia as AG 102—106.  
Previous edition AS 4552—2005.  
Jointly revised and redesignated as AS/NZS 5263.1.2:2016.

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee AG-001, Gas Appliances, to supersede AS 4552—2005, *Gas fired water heaters for hot water supply and/or central heating*.

This Standard provides particular requirements for gas fired water heaters for hot water supply and/or central heating that apply in addition to or in place of the general requirements for gas appliances set out in AS 5263.0, *Gas appliances, Part 0: General requirements*. The combination of AS/NZS 5263.1.2 and AS 5263.0 supersedes AS 4552—2005.

This Part 1.2 of AS/NZS 5263 supplements or modifies the corresponding Clauses of Part 0. The numbering of Clauses in this Part 1.2 is consistent with the numbering in Part 0 for related requirements.

Statements used in this Part 1.2 to explain the relationship of clauses in this Standard to the corresponding clauses in Part 0 are as follows:

- (a) ‘This Clause of AS 5263.0 applies’, in which case the corresponding Clause of Part 0 and its subclauses are used without modification.
- (b) ‘This Clause of AS 5263.0 applies, except as modified below’, in which case the corresponding Clause of Part 0 and its subclauses are used but with the modifications, as listed in this document.
- (c) ‘Not applicable’, in which case the corresponding clause of Part 0 is not used in this context.

Otherwise the text in this Standard replaces the corresponding Clause of Part 0.

Any Clauses in this Standard that are additional to the requirements of Part 0 are numbered beginning from 101 (except for additional definitions, which begin from 201). Additional Appendices in this Part 1.2 are designated with a letter starting from AA, or numbered beginning from 101 (e.g. ZA101).

Where an Appendix or part of an Appendix (i.e. Paragraph, Figure or Table) is cited in this Standard, reference should first be made to Part 0 for the content of the Appendix, which may be modified by this Part 1.2.

Appendix CC sets out additional requirements and variations to AS 5263.0 to provide for New Zealand requirements and practices. These variations to Part 0 may be overridden by variations in the body of this Standard.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, conformity assessment bodies and similar organizations with uniform minimum requirements for the safety, performance and use of gas appliances.

This Standard should not be regarded as a design specification or as an instruction manual.

Consideration has been given to—

- (i) continuity of satisfactory operation;
- (ii) the prevention of fire hazards, and explosions;
- (iii) the prevention of injury to persons or property;
- (iv) gas rules and regulations now in force; and
- (v) relevant International Standards.

AS/NZS 5601 series of Standards provides essential requirements and means of compliance for gas installations. Any reference to AS/NZS 5601 in AS/NZS 5263 series Standards should be considered as reference to the appropriate part of the AS/NZS 5601 series of Standards (i.e. AS/NZS 5601.1 or AS/NZS 5601.2).

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.

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

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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## SECTION 1 SCOPE AND DEFINITIONS

**1.1 SCOPE**

This Standard provides specific requirements and test methods for gas water heaters and central heating boilers which use natural gas (as described by AS 4564), town gas, liquefied petroleum gas (LP Gas, as described by AS 4670) and tempered liquefied petroleum gas (TLP) as a fuel, with an energy input not exceeding 500 MJ/h, and includes types intended for the supply of hot water at a maximum temperature of 99°C for—

- (a) sanitary, potable and drinking purposes;
- (b) hydronic space heating; and
- (c) a combination of Item (a) and Item (b).

For New Zealand:

- (i) The fuel gases are natural gas (as specified in NZS 5442) and general product liquefied petroleum gas (NZLPG) (as specified in NZS 5435).
- (ii) The thermal efficiency requirements are informative only, except where they relate to safety.

NOTE: Other statutory and regulatory requirements may be applicable to a product that falls within the scope of this Standard. It is the responsibility of the manufacturer, importer or distributor (as appropriate) to ensure that products comply with such requirements.

Appendix CC sets out additional requirements and variations to AS 5263.0, to provide for New Zealand requirements and practices. These variations to Part 0 may be overridden by variations in Sections 1–5 of this Standard.

Test methods are set out in Appendices ZA, ZB and ZC (see Clause 1.4).

**1.1.101 Application**

This Standard is complementary to, and is intended to be used in conjunction with, AS 5263.0. The requirements given herein shall take precedence over corresponding requirements in that Standard.

AS 3645 specifies essential requirements for gas equipment that requires regulatory approval before sale. This Standard, together with AS 5263.0, is intended to provide a means of demonstrating compliance with AS 3645.

**1.2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS	
1357	Valves primarily for use in heated water systems
1357.1	Part 1: Protection valves
3645	Essential requirements for gas equipment