

Australian Standard™

**Boilers—Unattended and limited  
attendance**



This Australian Standard was prepared by Committee ME-001, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 13 April 2001 and published on 13 July 2001.

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AS 2593—2001  
(Incorporating Amendment No. 1)

Australian Standard™

**Boilers—Unattended and limited  
attendance**

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## PREFACE

This Standard was prepared by Standards Australia/Standards New Zealand Committee ME-001, Pressure Equipment to supersede AS 2593—1995.

*This Standard incorporates Amendment No. 1 (October 2001). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

This Standard is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

This edition proposes, in addition to the existing requirements for boilers operating for periods without human supervision, further requirements for attended boilers.

This edition introduces requirements for accredited boiler attendants, as boiler attendants will no longer be certificated by the regulatory authorities.

Users of this Standard are reminded that it has no legal authority in its own right but may acquire legal standing in one or more of the following circumstances:

- (a) Adoption by a government authority.
- (b) Adoption by a purchaser as a required standard of construction when placing a contract.
- (c) Adoption where a manufacturer states that a vessel is in accordance with this Standard.

Statements expressed in mandatory terms in footnotes 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.

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## STANDARDS AUSTRALIA

**Australian Standard**  
**Boilers—Unattended and limited attendance**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for unattended and limited attendance boilers which are intended to be operated for periods without human supervision. It includes general features within the control, management and supervision systems, associated valves and fittings, housing and installation, as well as requirements and responsibilities for checking, testing and maintenance of these boilers.

The limits on the type, design criteria, and usage of unattended and limited attendance boilers to which this Standard is intended to apply are as follows:

- (a) Boilers for fixed land installations.
- (b) Boilers having a design pressure as shown in Table 1.1.
- (c) Boilers having a power output within the capacity specified in Table 1.1 for the boiler type and category. (See Note 1.)
- (d) Boilers complying with the supervision and maintenance requirements specified in Table 1.1 for the boiler type and category.
- (e) Boilers for the generation of steam, or other vapour, for which duty the types of boilers permitted are—
  - (i) water-tube type, electric type or small boiler types (see Table 1.1) for unattended operation and
  - (ii) any type of boiler for limited attendance operation (see Table 1.1).
- (f) Boilers for the heating of water or other liquids at a pressure above that of the atmosphere and to a temperature not less than the normal atmospheric boiling temperature of the liquid, for which duty any type of boiler complying with AS 1228 is permitted for unattended operation, provided that for other than water-tube and electric type boilers, steam or vapour is not generated in the boiler and the boiler drum or shell is fully flooded.
- (g) Boilers having any of the following sources of energy input:
  - (i) Gas fuel (mains or other gases).
  - (ii) Oil fuel with a closed flashpoint greater than 23°C.
  - (iii) Solid fuels, including solid-fuel-in-suspension.
  - (iv) Waste heat fluids.
  - (v) Electric power.
  - (vi) Solar energy.

**NOTES:**

- 1 This Standard may also be applied to boilers outside the limits specified in Items (a) to (g) in Clause 1.1 where equivalent safety and reliability are ensured.
- 2 Except for definitions in Clause 1.3, other clauses in the Standard refer to steam and water only. The Standard may be applied to other fluids.