

Australian Standard[®]

**Boilers—Safety management and
supervision systems**

STANDARDS
Australia



This Australian Standard® was prepared by Committee ME-001, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 26 May 2004. This Standard was published on 28 June 2004.

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**Boilers—Safety management and
supervision systems**

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PREFACE

This Standard was prepared by the Australian members of Standards Australia/Standards New Zealand Committee ME-001, Pressure Equipment to supersede AS 2593—2001, *Boilers—Unattended and limited attendance*. Parts of AS 3653—1993, *Boilers—Safety, management, combustion and other ancillary equipment*, have been integrated into this Standard. AS 3653 will be withdrawn after publication of this Standard.

This Standard incorporates Amendment No. 1 (February 2007). 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.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than a dual Australian/New Zealand Standard.

The objective of this Standard is to provide operators of all boilers with requirements for their safe operation.

This edition introduces requirements for attended boilers.

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 appendices to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard

Boilers—Safety management and supervision systems

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the requirements for the operation of boilers, including unattended, limited attendance and fully attended. It includes the special features within the control, management and supervision systems, associated valves and fittings, hoisting and installation for those boilers operating in the unattended or limited attendance modes. It also details the checking, testing and maintenance requirements for each category of attendance.

The details and limits on the type, design criteria, and usage of unattended, limited attendance and attended 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.
- (c) Boilers having a power output within the capacity specified in Table 1 for the boiler type and category. (See Note 1.)
- (d) Boilers complying with the supervision and maintenance requirements specified in Table 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) for unattended operation;
 - (ii) any type of boiler for limited attendance operation (see Table 1); and
 - (iii) any type of boiler for attended operation (see Table 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.