

Australian Standard®

**Safety valves, other valves, liquid
level gauges and other fittings for
boilers and unfired pressure vessels**

This Australian Standard was prepared by Committee ME/1, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 26 May 1997 and published on 5 August 1997.

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Australasian Institute of Engineering Inspection
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Australian Building Codes Board
Australian Chamber of Commerce and Industry
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This Standard was issued in draft form for comment as DR 96358.

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boilers and unfired pressure vessels**

Originated as AS B190—1964.
Previous edition AS 1271—1990.
Fourth edition 1997.

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/1, Pressure Equipment, and supersedes AS 1271 — 1990.

This Standard forms part of the AS/NZS Pressure Equipment Standard, which is referenced as AS/NZS 1200. The Pressure Equipment Standard covers requirements for water-tube, fire-tube, shell and miscellaneous boilers, unfired pressure vessels, piping, certification of welders, and related matters. Revisions and additions approved by the Committee, have been included in this edition and the changes include editorial modifications to align with Standards Australia practice.

The Standard incorporates revisions to ISO 4126-1, *Safety valves—General requirements*, where the Committee considered these to be appropriate.

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

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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

Safety valves, other valves, liquid level gauges, and
other fittings for boilers and unfired pressure vessels

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for the design, construction and testing of safety valves, liquid relief valves, liquid level gauges, blowdown valves and other fittings for use on boilers and unfired pressure vessels, and their associated piping.

It does not deal with the selection, operation, or application of valves and fittings, as these are dealt with in the Standard applying to the equipment to which the valves and fittings are to be connected, e.g. AS 1210, nor does it include requirements relating to safety fittings of a class or kind that are already the subject of a relevant Standard, e.g. —

- (a) Bourdon tube pressure and vacuum gauges AS 1349;
- (b) bursting discs AS 1358;
- (c) fusible plugs for boilers AS 1732; and
- (d) bursting discs and bursting disc devices ISO 6718.

1.2 APPLICATION Each fitting shall comply with the requirements of Section 2, and with the requirements of the following Sections as appropriate:

- (a) Safety and relief valves Section 3.
- (b) Liquid relief valves Section 4.
- (c) Liquid level gauges Section 5.
- (d) Blowdown valves Section 6.

1.3 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS	
1210	Pressure vessels
1349	Bourdon tube pressure and vacuum gauges
1358	Bursting discs and bursting disc devices—Guide to applications, selection, and installation
1722	Pipe threads of Whitworth form
1722-1	Part 1: Sealing pipe threads
1732	Fusible plugs for boilers
2129	Flanges for pipes, valves and fittings
2593	Boilers—Unattended and limited attendance
3653	Boilers—Safety management, combustion and other ancillary equipment
4037	Boilers and pressure vessels—Examination and testing
4041	Pressure piping