

Dup amendment 1 - April 91

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STANDARDS AUSTRALIA

AS 1271—1990

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AS 1271—1997

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, Boilers and Unfired Pressure Vessels. It was approved on behalf of the Council of Standards Australia on 3 July 1990 and published on 15 October 1990.

The following interests are represented on Committee ME/1:

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Aluminium Development Council
Australian Compressed Air and Mining Equipment Institute
Australian Institute for Non-destructive Testing
Australian Institute of Energy
Australian Institute of Petroleum
Australian Liquefied Petroleum Gas Association
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This Standard was issued in draft form for comment as DR 88117.

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

First published as AS B190—1964.
Revised and redesignated AS 1271—1973.
Second edition 1982.
Third edition 1990.

PREFACE

This Standard was prepared by the Standards Australia Committee on Boilers and Unfired Pressure Vessels, to supersede AS 1271—1982, *Valves, water gauges and other fittings for boilers and unfired pressure vessels*.

This Standard forms part of the SAA Boiler Code, which is referenced as AS 1200 and is referred to in Statutory Authority regulations within Australia. The SAA Boiler Code 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. It also incorporates Ruling PV/E 8008/22, Small Safety Valves.

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

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CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 APPLICATION	4
1.3 REFERENCED DOCUMENTS	4
1.4 DEFINITIONS	5
1.5 PRESSURES	6
1.6 DESIGNATION	6
SECTION 2 GENERAL DESIGN AND CONSTRUCTION	
2.1 MATERIALS	7
2.2 PRESSURE/TEMPERATURE DESIGN AND RATING	7
2.3 MOUNTING AND CONNECTIONS	8
2.4 BOLTING	9
2.5 DESIGN AND CONSTRUCTION	9
2.6 MARKING AND DOCUMENTATION	9
2.7 HYDROSTATIC TESTS	10
SECTION 3 SAFETY AND RELIEF VALVES	
3.1 GENERAL	12
3.2 SPRING LOADING	12
3.3 EASING GEAR	13
3.4 OPERATION	13
3.5 CAPACITY RATING, CLASSIFICATION, AND CERTIFICATION	13
3.6 TESTING FOR OPERATING AND FLOW CHARACTERISTICS FOR SAFETY VALVES USING STEAM, AIR, WATER, OR OTHER GASES OR LIQUIDS OF KNOWN CHARACTERISTICS	14
3.7 TESTS TO DETERMINE OPERATING CHARACTERISTICS	14
3.8 TESTS TO DETERMINE FLOW CHARACTERISTICS	15
3.9 MEASUREMENT OF LIFT	16
3.10 RATED DISCHARGE CAPACITY	16
SECTION 4 LIQUID RELIEF VALVES	
4.1 GENERAL	19
4.2 RATED DISCHARGE CAPACITY	19
SECTION 5 LIQUID LEVEL GAUGES	
5.1 SCOPE OF SECTION	20
5.2 MOUNTINGS	20
5.3 GAUGE GLASSES	20
5.4 DRAIN	20
5.5 COCK HANDLES	20
5.6 GUARDS	20
5.7 SAFETY DEVICES	20
5.8 CONNECTION TO PRESSURE VESSEL	20
SECTION 6 BLOWDOWN VALVES	
6.1 DESIGN—GENERAL	21
6.2 OPERATION	21
APPENDICES	
A MINIMUM THICKNESS OF SAND-CAST VALVES AND OTHER FITTINGS	22
B TEST REPORT OF SAFETY VALVE	24
C FORM OF CERTIFICATE—CLASS A SAFETY VALVES	26
D FORM OF CERTIFICATE—CLASS B SAFETY VALVES	27
E PRESSURE/TEMPERATURE TRANSFER CURVES	28
F DISCHARGE CAPACITY	31
G DERIVATION OF COMPRESSIBILITY FACTOR	39
H PNEUMATIC PRESSURE TESTING SAFETY REQUIREMENTS	41

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.

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

AS	
1135	SAA Non-ferrous Pressure Piping Code
1200	SAA Boiler Code
1210	SAA Unfired Pressure Vessels Code
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
CB15	SAA Pipe Welding Code
CB15.3—1967	Part 3: Arc welding of ferritic steel piping
ISO	
6718	Bursting discs and bursting disc devices
ANSI	
B16.5	Steel pipe flanges and flange fittings
B16.104	Control valve seat leakage
BS	
1560	Specification for steel pipe flanges (nominal sizes 1/2 in to 24 in) for the petroleum industry Part 2: Metric dimensions
1726	Guide to the design and specification of coil springs Part 1: Guide for the design of helical compression springs
3463	Specification for observation and gauge glasses for pressure vessels
3799	Specification for steel pipe fittings, screwed and socket-welding for the petroleum industry
API	
527	Commercial seat tightness of safety relief valves with metal to metal seats
598	Valve inspection and test
MSS	
SP61	Hydrostatic testing of steel valves