

Australian Standard™

Pressure equipment—Installation



S t a n d a r d s Australia

This Australian Standard was prepared by Committee ME-001, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 30 December 2000 and published on 27 February 2001.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-001, Pressure Equipment to supersede AS 3892—1995, *Pressure equipment—Installation*.

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

The first issue of this Standard consolidated, rationalized and extended the requirements and recommendations in AS 1210, *Pressure vessels*, AS 1228, *Pressure equipment — Boilers*, AS 2593, *Boilers—Unattended and limited attendance* and associated Standards. It was part of a major program to restructure, unify and simplify the various Standards for particular types of equipment and components in accordance with AS/NZS 1200, *Pressure equipment*. AS/NZS 1200 covers requirements for land installations of boiler, pressure vessels, pressure piping and associated matters.

The Committee recognized there was a need to specify requirements and give further guidance to installers, purchasers and users on the installation of pressure equipment. Existing Standards on boilers give some (but not consistent) guidance for their safe installation, while pressure vessel Standards provide little information for their installation.

The objective of the Standard is to provide requirements for safe installation of pressure equipment.

The main changes in this revision include the following:

- (a) A new section incorporating the requirements for the installation of pressure piping.
- (b) A new appendix giving guidance on the competency of installers.
- (c) A new appendix on management systems.
- (d) Alignment with Standardization Guide No. 17.1, *Drafting of Standards that may be referenced under occupational, health and safety legislation*.

This Standard provides the minimum installation requirements to ensure the initial and continued safe and reliable performance of the pressure plant. In many circumstances, additional requirements may be necessary for adequate performance or safety.

It is envisaged that experience gained in the use of the Standard will highlight areas that need to be strengthened. It is intended that the Standard will be regularly reviewed and revised as necessary to ensure it remains a useful document to all parties concerned and provides safe and reliable pressure plant.

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.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	5
1.2 OBJECTIVE.....	5
1.3 APPLICATION	5
1.4 REFERENCED DOCUMENTS.....	6
1.5 DEFINITIONS.....	6
SECTION 2 GENERAL REQUIREMENTS	
2.1 COMPLIANCE.....	7
2.2 SAFETY DURING INSTALLATION.....	7
2.3 PROTECTION OF EQUIPMENT	10
2.4 MANAGEMENT SYSTEMS	10
SECTION 3 INSTALLATION, ORGANIZATION AND PERSONNEL	
3.1 GENERAL REQUIREMENTS.....	11
3.2 INSTALLATION	11
SECTION 4 INSTALLATION OF BOILERS	
4.1 HOUSING	12
4.2 FOUNDATIONS AND SUPPORTS.....	12
4.3 LOCATION AND ACCESS.....	13
4.4 SETTINGS	15
4.5 LIGHTING	15
4.6 VENTILATION.....	15
4.7 NOISE CONTROL	16
4.8 CONTROL ROOMS.....	16
4.9 PROVISION FOR OUTDOOR INSTALLATION	16
4.10 FEEDWATER TREATMENT AND SUPPLY PLANT	17
4.11 BLOWDOWN SYSTEMS.....	17
4.12 BOILER FLUE GAS EXHAUST SYSTEMS.....	18
4.13 SOLID FUEL AND ASH STORAGE, AND HANDLING AND DUST COLLECTION EQUIPMENT.....	21
4.14 GAS AND OIL EQUIPMENT.....	23
4.15 ASSOCIATED PROTECTIVE AND EMERGENCY SYSTEMS	23
4.16 ELECTRICAL INSTALLATION.....	24
4.17 ERECTION.....	24
4.18 COMMUNICATION FACILITY	24
4.19 FINAL CONDITION AND HOUSEKEEPING	24
4.20 PRECOMMISSIONING INSPECTION	24
SECTION 5 INSTALLATION OF PRESSURE VESSELS	
5.1 SITING.....	26
5.2 FOUNDATIONS AND SUPPORTS.....	26
5.3 LOCATION AND ACCESS.....	26
5.4 LIGHTING	27
5.5 VENTILATION.....	27
5.6 NOISE CONTROL	27
5.7 ELECTRICAL INSTALLATION.....	28
5.8 ERECTION.....	28

	<i>Page</i>
5.9 CORROSION PROTECTION	28
5.10 INSULATION	28
5.11 PRECOMMISSIONING INSPECTION	28
SECTION 6 INSTALLATION OF PRESSURE PIPING	
6.1 GENERAL.....	30
6.2 PIPING	30
6.3 JOINTS.....	31
6.4 SUPPORTS	32
6.5 IN-LINE EQUIPMENT	32
6.6 TESTING.....	34
6.7 CLEANING OF PIPEWORK	34
6.8 THERMAL INSULATION AND PROTECTION	34
6.9 IDENTIFICATION.....	34
SECTION 7 INSTALLATION OF ASSOCIATED SERVICES, FITTINGS AND PIPING	
7.1 CONNECTION TO SERVICES	35
7.2 FITTINGS AND PIPING.....	35
7.3 LOCATION OF FITTINGS AND PIPING	35
7.4 PROTECTION OF FITTINGS AGAINST INTERFFRNFCE.....	35
7.5 PROTECTION AGAINST DAMAGE.....	35
7.6 DRAINAGE PIPING	35
7.7 SAFETY DEVICE DISCHARGE PIPING	36
7.8 ISOLATION OF INTERCONNECTED PRESSURE EQUIPMENT.....	37
7.9 OUTDOOR INSTALLATION.....	37
APPENDICES	
A LIST OF REFERENCED DOCUMENTS	38
B GUIDE FOR A METHODOLOGY OF INCIDENT INVESTIGATION	40
C GUIDE FOR MANAGEMENT SYSTEMS FOR THE INSTALLATION OF PRESSURE EQUIPMENT	41
D GUIDE FOR ASSESSING THE COMPETENCY OF INSTALLERS	44
E GUIDE FOR THE DESIGN OF BOILER BLOWDOWN TANKS	45

STANDARDS AUSTRALIA

Australian Standard
Pressure equipment—Installation

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the requirements for, and gives guidance on, the installation of pressure equipment (boilers, pressure vessels and pressure piping), control, and safety equipment constructed in accordance with AS/NZS 1200 and Standards referenced therein, together with other relevant Standards.

NOTES:

- 1 No requirements can be written in sufficient detail to cover all aspects of installation for the great variety of pressure equipment. Each installer should ensure that the quality of the installation is in accordance with all applicable requirements and is adequate for continued safe performance of the equipment. This may require further work to be undertaken and the seeking of expert advice.
- 2 'Duty of care' is now prescribed on employers and employees regardless of regulation or standards. This Standard does not supersede 'duty of care'.
- 3 Users of this Standard are reminded that it has no legal authority in its own right, but may acquire legal standing if adopted by government or any other authority having jurisdiction, or if specified as part of a commercial contract.

1.2 OBJECTIVE

This Standard is intended to—

- (a) establish uniform minimum requirements for the installation of pressure equipment to ensure safe performance and protection of personnel, equipment and the environment; and
- (b) provide information and guidance for suppliers, installers, purchasers and various authorities.

1.3 APPLICATION

This Standard applies to, but is not limited to, the following pressure equipment:

- (a) Stationary boilers (including superheaters, economizers, reheaters and air heaters) but excluding domestic pressure cookers, domestic coffee machines and similar boilers.
- (b) Static fired and unfired pressure vessels (including industrial fired heaters, water heaters, feedwater heaters, heat exchangers and other similar equipment).
- (c) Pressure piping assembled on or off-site.
- (d) Associated auxiliaries, e.g. boiler combustion equipment, fuel storage and handling equipment, combustion air and flue gas systems, feed and circulating pumps.
- (e) Associated appurtenances, e.g. safety valves, pressure gauges, water gauges, blowdown systems, feedwater controllers, soot blowers, steam and water valves, and bursting discs.
- (f) Associated pressure equipment control systems.
- (g) Associated piping.