This is a free page sample. Access the full version online.

Australian Standard™

Pressure equipment—Installation

Standards Australia

This is a free page sample. Access the full version online.

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.

The following interests are represented on Committee ME-001:

A.C.T. WorkCover
Australasian Corrosion Association
Australasian Institute of Engineer Surveyors
Australian Aluminium Council
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Institute of Energy
Australian Institute of Petroleum
Australian Liquefied Petroleum Gas Association
Boiler and Pressure Vessel Manufacturers Association of Australia
Bureau of Steel Manufacturers of Australia
Department for Administrative and Information Services, S.A.
Department of Employment, Training and Industrial Relations, Qld
Department of Industries and Business, N.T.
Department of Infrastructure, Energy and Resources, Tas.
Department of Labour, New Zealand
Electricity Engineers Association, New Zealand
Electricity Supply Association of Australia
Institute of Materials Engineering Australasia
Institution of Engineers, Australia
Institution of Professional Engineers, New Zealand
National Association of Testing Authorities, Australia
New Zealand Engineering Federation
New Zealand Heavy Engineering Research Association
New Zealand Institute of Welding
New Zealand Petrochemical Users Group
Victorian WorkCover Authority
Welding Technology Institute of Australia
WorkCover N.S.W.
WorkSafe W.A.

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Australia web site at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Australian Standard*, has a full listing of revisions and amendments published each month.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.com.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 00262.

This is a free page sample. Access the full version online.

Australian Standard™

Pressure equipment—Installation

Originated as AS 3892—1991.
Previous edition 1995.
Third edition 2001.

COPYRIGHT

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 3748 X

This is a free page sample. Access the full version online.

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 boilers, 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.

This is a free page sample. Access the full version online.

CONTENTS

Page

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

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation