Australian Standard®

Pressure equipment—Manufacture

This Australian Standard was prepared by Committee ME/1, Pressure Equipment. It was approved on behalf of the Council of Standards Australia on 17 January 1997 and published on 5 June 1997.

The following interests are represented on Committee ME/1:

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Australasian Corrosion Association

Australasian Institute of Engineering Inspection

Australian Aluminium Council

Australian Building Codes Board

Australian Chamber of Commerce and Industry

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/1 on Pressure Equipment.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce this document as an Australian Standard. Consensus means general agreement by all parties. Consensus includes an attempt to remove all objections and implies much more than the concept of a simple majority, but not necessarily unanimity. It is consistent with this meaning that a member may be included in the Committee list and yet not be in full agreement with all clauses of this Standard.

This Standard is one of the 'core' documents which form part of the revised arrangement of the pressure equipment Standards; and is intended to unify and revise the manufacturing requirements for the pressure equipment Standards, AS 1210, *Pressure vessels*, AS 1228, *Pressure equipment—Boilers* and AS 4041, *Pressure piping*.

In this way misunderstanding, cost and delay in manufacture can be reduced and safety can be improved. It is intended to avoid unnecessary duplication and promote greater confidence in reciprocal acceptance of qualified procedures.

This Standard is based largely on AS 1210, with due allowance for practices or requirements of AS 1228 and AS 4041.

Requirements have been formulated with a view to maximum compatibility with recognized International Standards.

Statements referred in mandatory terms in notes to tables and figures 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 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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S E C T I O N 1 S C O P E A N D G E N E R A L

1.1 SCOPE This Standard sets out requirements for the manufacture of pressure equipment as specified in the pressure equipment Standards AS 1210, AS 1228 and AS 4041. Fabrication, heat treatment, forged construction, cast construction and testing are covered.

1.2 APPLICATION This Standard is intended for use by designers, manufacturers, fabricators, inspection bodies, inspectors and all persons concerned with the manufacture of pressure equipment.

This Standard applies to pressure equipment covered by AS/NZS 1200 and AS 3920.1.

The relevant requirements of AS/NZS 1200 apply to this Standard.

1.3 REFERENCED DOCUMENTS A list of the documents referred to in this Standard is given in Appendix A.

1.4 DEFINITIONS For the purposes of this Standard, the definitions below apply.

1.4.1 Construction—design, manufacture and supply. (See Figure 1.1).

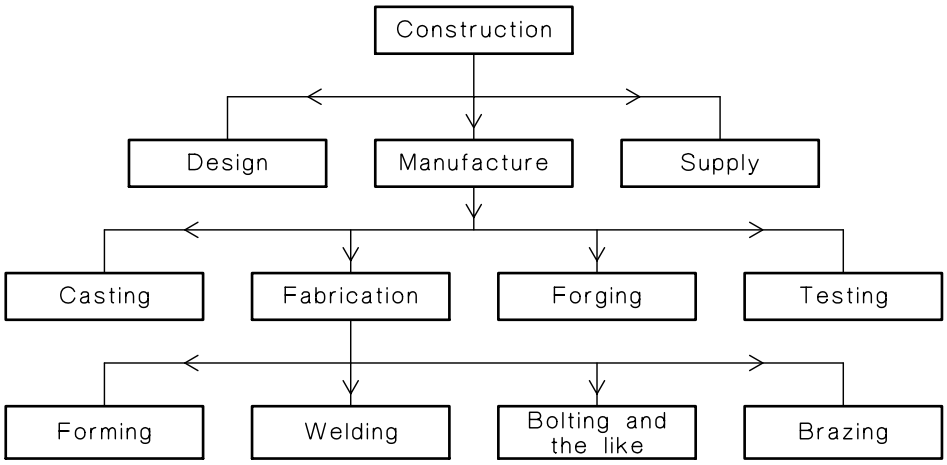

FIGURE 1.1 TERMS USED IN CONSTRUCTION

1.4.2 Designer—a person who designs pressure equipment or is responsible for the design.

1.4.3 Fabrication—the forming and joining of pressure equipment components which includes cutting, bending, rolling, pressing, swaging, upsetting, threading, welding, brazing, machining and any other operation on these components, but which is not part of installation.

NOTE: Fabrication may be carried out in the shop or on site.