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Australian Standard[®]

**Stainless steel clamps for
waterworks purposes**



STANDARDS AUSTRALIA



This Australian Standard was prepared by Committee WS/16, Cast Iron Pressure Pipes and Fittings. It was approved on behalf of the Council of Standards Australia on 30 December 1993 and published on 14 March 1994.

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Australian Chamber of Commerce and Industry
Brisbane City Council
Department of Local Government, Qld
Hunter Water Corporation
Institution of Engineers Australia
Melbourne Water
Metal Trades Industry Association of Australia
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**Stainless steel clamps for
waterworks purposes**

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PREFACE

This Standard was prepared by the Standards Australia Committee WS/16 on Cast Iron Pressure Pipes and Fittings in participation with water authorities in Australia and industry in general to establish requirements for stainless steel clamps.

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.

Support and contribution is acknowledged from water authorities, manufacturers and importers.

CONTENTS

	<i>Page</i>
1 SCOPE	3
2 APPLICATION	3
3 REFERENCED DOCUMENTS	3
4 DEFINITIONS	3
5 DESIGN	4
6 MATERIALS AND FABRICATION	4
7 TESTING (TYPE TESTS)	4
8 SUPPLY	5
9 MARKINGS	5
 APPENDICES	
A PRESSURE TEST	6
B VACUUM TEST	8
C TYPICAL FORM FOR PRESSURE TEST REPORT	10

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STANDARDS AUSTRALIA

Australian Standard

Stainless steel clamps for waterworks purposes

1 SCOPE This Standard specifies the requirements for stainless steel clamps for waterworks purposes.

2 APPLICATION Stainless steel clamps complying with this Standard are intended for use in the repair or tapping of water supply pipelines of the sizes designated in Table 5.1, with a maximum service temperature of 60°C up to a working pressure of 2 MPa for clamps up to and including DN 300, and 1.2 MPa above DN 300.

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

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|-----------|---|
| 1111 | ISO metric hexagon commercial bolts and screws |
| 1112 | ISO metric hexagon nuts, including thin nuts, slotted nuts and castle nuts |
| 1252 | High strength steel bolts with associated nuts and washers for structural engineering |
| 1349 | Bourdon tube pressure and vacuum gauges |
| 1449 | Wrought alloy steels—Stainless and heat resisting steel plate, sheet and strip |
| 1554 | Structural steel welding |
| 1554.6 | Part 6: Welding stainless steel for structural purposes |
| 1722 | Pipe threads of Whitworth form |
| 1722.2 | Part 2: Fastening pipe threads |
| 2205 | Methods of destructive testing of welds in metal |
| 2205.10.1 | Part 10.1: Corrosion tests—Corrosion test for welded austenitic stainless steel |
| 2837 | Wrought alloy steels—Stainless steel bars and semi-finished products |
| 3855* | Suitability of plumbing products for contact with potable water |
| 4087 | Metallic flanges for waterworks purposes |

4 DEFINITIONS For the purpose of this Standard, the definitions below apply.

4.1 Maximum working temperature—the maximum internal or external temperature to which the clamp is exposed in service.

4.2 Size range—the range of outside diameters of pipe for which the clamp is designed.

4.3 Stainless steel clamp—an elastomer-lined metal sheet with an integral clamping system designed for repair of pipes and providing seal and support for tapping.

4.4 Tapping clamp—an off-take in flange or socket design which retains the integrity of the full circumferential seal.

4.5 Working pressure—the internal working pressure which may be applied to the clamp either as a continuous pressure or peak pressure during normal operation.

* First published as an Interim Standard.