

Australian/New Zealand Standard™

**Mechanical tapping bands for
waterworks purposes**



AS/NZS 4793:2009

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WS-016, Cast Iron Pressure Pipes and Fittings. It was approved on behalf of the Council of Standards Australia on 23 February 2009 and on behalf of the Council of Standards New Zealand on 9 March 2009.
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Australian Chamber of Commerce and Industry
Australian Industry Group
Certification Bodies (Australia)
Plastics Industry Pipe Association of Australia
Plastics New Zealand
Water Industry Operators Group of New Zealand
Water Services Association of Australia

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-016, Cast Iron Pressure Pipes and Fittings.

The objective of this Standard is to provide performance requirements for manufacturers and purchasers of mechanical tapping bands for waterworks purposes. The advent of new pipe materials has highlighted the need to determine the compatibility and performance of various tapping band designs. It is intended that tapping bands be qualified for compatibility with specifically nominated pipe materials, based on testing regimes contained within this Standard.

This Standard has been based on water industry Standard WSA 107, which was published by the Water Services Association of Australia in July 2001.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard. Other notes are for information and guidance only.

Australian Standards generally do not—

- (a) restate the duties of employers, employees, designers and installers;
- (b) determine the applicability of regulatory limitations; and
- (c) determine appropriate health and safety practices.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for design, materials, and performance in service of PN 16 mechanical tapping bands used for the connection of property service pipes to reticulation watermains.

It applies to tapping bands, with and without electrical insulation, for mechanical connection to standard watermains, with the exception of tapping bands for polyethylene watermains that are covered in AS/NZS 4129. The nominal operating temperature range is 0°C to 40°C.

Solvent cemented PVC tapping bands are outside the scope of this Standard.

The nominal size range of tapping bands covered by this Standard is DN 80 to DN 450 with outlet sizes ranging from dn 15 to dn 50, as appropriate to the tapping band size.

Methods of demonstrating compliance with this Standard are given in Appendix A.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199	Sampling procedures and tables for inspection by attributes
1199.1	Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
1237	Plain washers for metric bolts, screws and nuts for general purposes
1237.1	Part 1: General plan
1565	Copper and copper alloys—Ingots and castings
1627	Metal finishing—Preparation and pretreatment of surfaces
1627.4	Part 4: Abrasive blast cleaning of steel
1646	Elastomeric seals for waterworks purposes
1831	Ductile cast iron
2074	Cast steels
2205	Method for destructive testing of welds in metal
2205.10.1	Method 10.1: Corrosion test for welded austenitic stainless steel
2345	Dezincification resistance of copper alloys
4291	Mechanical properties of fasteners made of carbon steel and alloy steel
4291.1	Part 1: Bolts, screws and studs
4796	Water supply—Metal bodied and plastic bodied ball valves for property service connection