

AS 3718:2021



Water supply — Tap ware



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- Australian Industry Group
- Department of Agriculture, Water and the Environment
- Gas Technical Regulators Committee
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- National Association of Testing Authorities Australia
- Plastics Industry Pipe Association of Australia
- Plumbing Products Industry Group
- Queensland Brassware Association
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- Plastics New Zealand
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Water supply — Tap ware

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Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee WS-001, Water Fittings, to supersede AS/NZS 3718:2005.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide requirements for tap ware in nominal sizes ranging from DN 6 to DN 50 that is designed to be used generally for continuous operating temperatures not exceeding 80 °C and maximum dynamic operating pressure 500 kPa. Requirements are also provided for outlets of a tap or mixing tap and for tapset breaching piece assemblies.

The major changes in this edition are as follows:

- (a) Additional finish and coating information including PVD coating.
- (b) Additional water shut-off device classifications and changes to endurance test cycles.
- (c) Additional information on electrical and electromagnetic requirements.
- (d) Addition of an endurance test for rotating or swivelling outlets.

The term “normative” is used in Standards to define the application of the appendix to which it applies. A “normative” appendix is an integral part of a Standard.

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NOTES

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Section 1 Scope and general

1.1 Scope

This Standard specifies requirements for metallic taps, plastic taps, mixing taps, sensor taps, lever taps, timed flow taps, mixing taps mechanical (non-thermostatic), and tapsets in nominal sizes ranging from DN 6 to DN 50 that are designed to be used generally for continuous operating temperatures not exceeding 80 °C and maximum dynamic operating pressure 500 kPa.

This Standard does not prevent the use of products designed for other temperature ranges provided they meet the performance requirements specified herein.

The Standard also specifies requirements for outlets of a tap or mixing tap and for tapset breaching piece assemblies.

Means for demonstrating conformance to this Standard are given in [Appendix A](#).

NOTE Where the static hot and cold water supply systems pressures are below 35 kPa, then water-efficient tap ware may not need to be fitted.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 681, *Elastomeric seals — Material requirements for pipe joint seals used in water and drainage applications (series)*

AS 1167.1, *Welding and brazing — Filler metals, Part 1: Filler metal for brazing and braze welding*

AS 1199.1, *Sampling procedures for inspection by attributes, Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

AS 1349, *Bourdon tube pressure and vacuum gauges*

AS 1432, *Copper tubes for plumbing, gasfitting and drainage applications*

AS 1565, *Copper and copper alloys — Ingots and castings*

AS 1572, *Copper and copper alloys — Seamless tubes for engineering purposes*

AS 1646, *Elastomeric seals for waterworks purposes*

AS 1722.2, *Pipe threads of Whitworth form, Part 2: Fastening pipe threads*

AS 1881, *Zinc alloys — Casting ingots and castings — Quality requirements*

AS 2331.3.1, *Methods of test for metallic and related coatings, Method 3.1: Corrosion and related property tests — Neutral salt spray test (NSS test)*

AS 2331.3.2, *Methods of test for metallic and related coatings, Method 3.2: Corrosion and related property tests — Acetic acid salt spray test (ASS test)*

AS 2331.3.3, *Methods of test for metallic and related coatings, Method 3.3: Corrosion and related property tests — Copper accelerated acetic acid salt spray test (CASS test)*

AS 2331.3.7, *Methods of test for metallic and related coatings, Method 3.7: Corrosion and related property tests — Corrodokote (Corr) test (ISO 4541:1978, MOD)*