

Australian Standard[®]

**In-line ball valves for use in plumbing
water supply systems**

Part 2: Plastics-bodied

STANDARDS
Australia



This Australian Standard® was prepared by Committee WS-022, Valves for Waterworks Purposes. It was approved on behalf of the Council of Standards Australia on 20 December 2011.

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- Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Stainless Steel Development Association
 - Australian Water Association
 - Engineers Australia
 - Institute of Instrumentation, Control and Automation Australia
 - Master Plumbers Australia
 - Plastics Industry Pipe Association of Australia
 - Plumbing Products Industry Group
 - Water Industry Alliance
 - Water Services Association of Australia
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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee WS-022, Valves for Waterworks Purposes, to supersede, in part, ATS 5200.012—2005, *Technical Specification for plumbing and drainage products, Part 012: In-line valves for use in plumbing water supply systems—Miscellaneous types metallic and non-metallic*.

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 suitable materials and performance tests for plastics-bodied ball valves used in plumbing water supply systems together with compliance requirements for the manufacturers and conformity assessment bodies.

Where applicable, the safety and performance requirements of this Standard are based on EN 1074, *Valves for water supply—Fitness for purpose requirements and appropriate verification tests* (series).

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.

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STANDARDS AUSTRALIA

Australian Standard

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Part 2: Plastics bodied

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for DN 6 to DN 110 plastics-bodied in-line ball valves for use in plumbing water supply systems, which include, but are not limited to, 2 way and 3 way valves having connection ends including, but not limited to, the following connections:

- (a) Flanged.
- (b) Threaded.
- (c) Compression.
- (d) Loose nut/union.
- (e) Butt fusion.
- (f) Spigot ends for cementing or welding.
- (g) Socket for electrofusion.

The valves are designed for non-buried installations operating at temperatures up to 60°C or as specified by the manufacturer.

NOTES:

- 1 Purchasing guidelines are given in Appendix B.
- 2 The requirements for end of line 'ball' taps are set out in AS/NZS 3718.
- 3 The requirements for valves for property services including water meters are set out in AS 4796.

1.2 APPLICATION

Appendix A sets out the means by which compliance with this Standard shall be demonstrated by a manufacturer for the purpose of product certification.

1.3 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

AS 681	Elastomeric seals—Material requirements for pipe joint seals used in water and drainage applications
681.1	Part 1: Vulcanized rubber
1565	Copper and copper alloys—Ingots and castings
1646	Elastomeric seals for waterworks purposes
2129	Flanges for pipes, valves and fittings
2345	Dezincification resistance of copper alloys