

Australian Standard™

**Water supply—Metal-bodied and
plastic-bodied ball valves for property
service connection**



S t a n d a r d s Australia

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Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Valve Manufacturers Association
Master Plumbers, Australia
New Zealand Metal Casting Industry Association
New Zealand Water and Wastes Association
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-022, Valves for Water Supply Purposes, in response to a request from the Water Services Association of Australia (WSAA) to provide a suitable product Standard for ball valves for property service connection for above- and below-ground situations.

The objective of this Standard is to provide suitable materials and performance tests for metal and plastic bodied ball valves used on property service connections, together with compliance requirements for the use of manufacturers and certification bodies.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

Support and contribution is acknowledged from the Water Services Association of Australia (WSAA).

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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STANDARDS AUSTRALIA

Australian Standard**Water supply—Metal-bodied and plastic-bodied ball valves for property service connection**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for metal-bodied and plastic-bodied ball valves for installation between the reticulation water main and the property water meter in nominal sizes DN 15, DN 20, DN 25, DN 32, DN 40 and DN 50, with the valve operating at continuous working pressures not exceeding 1.6 Mpa, and continuous operating temperatures not exceeding 60°C.

This Standard describes the service connection ball valve, service connection termination ball valve and its protection cover and the right angle meter assembly ball valve. It also covers the minimum requirements for health and safety and the protection of the environment.

Means for demonstrating compliance with this Standard are given in Appendix A.

1.2 REFERENCED DOCUMENTS

A list of the documents referred to in this Standard is given in Appendix B.

1.3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 3500.0 and those below apply.

1.3.1 Ball valve

A shut-off device, having a ball, which can be turned to move its port or ports relative to the body seat-ports to control the flow of liquid.

1.3.2 Component

A part or a subassembly of parts that contributes to the construction of a total assembly by choice or design and which may offer variations of fitment for the application to the major element of the product, whether produced by the same manufacturer or not.

NOTE: The component is deemed to be a vital part of the total assembly and should not inhibit the product from complying with this Specification and any relevant Australian Standard, when submitted for type testing.

1.3.3 Distortion

That which is obvious to the eye without resorting to dimensional checking or physically inhibits the operation of the valve.

1.3.4 Service connection ball valve (See Figure 1.1.)

A below ground valve for insertion into the water reticulation pipeline tapping fixture to deliver water to the property service pipe and which is shut only for maintenance, failure or disconnection of the downstream installation.