



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

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This Standard was issued in draft form for comment as DR AS 4796:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

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Original as AS 4796—2001.
Second edition AS 4796:2016.

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Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 533 3

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee, WS-022, Valves for Waterworks 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-ground and below-ground situations.

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

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendices 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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CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	4
1.2 REFERENCED DOCUMENTS.....	4
1.3 DEFINITIONS.....	4
1.4 MARKING.....	5
1.5 PURCHASING GUIDELINES.....	5
SECTION 2 MATERIALS	
2.1 SCOPE OF SECTION.....	7
2.2 DEZINCIFICATION-RESISTANT COPPER ALLOY.....	7
2.3 STAINLESS STEEL.....	7
2.4 PLASTIC MATERIALS.....	7
2.5 CONTAMINATION OF WATER.....	7
SECTION 3 DESIGN AND MANUFACTURE	
3.1 SCOPE OF SECTION.....	8
3.2 END CONNECTORS.....	8
3.3 WATER SHUT-OFF DEVICE.....	8
3.4 OPERATING MECHANISM.....	8
SECTION 4 PERFORMANCE REQUIREMENTS	
4.1 GENERAL.....	9
4.2 BODY RESISTANCE TO BENDING MOMENT (PLASTIC-BODIED VALVES)...	9
4.3 MINIMUM BORE DIAMETER.....	9
4.4 WATERTIGHTNESS.....	9
4.5 STRENGTH OF METAL-BODIED BALL VALVES.....	10
4.6 STRENGTH OF PLASTIC-BODIED BALL VALVES.....	10
4.7 TORQUE TEST FOR CONNECTOR NUTS AND BODY ASSEMBLIES.....	10
4.8 TORQUE TEST FOR VALVE OPERATION.....	10
APPENDICES	
A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD.....	11
B LIST OF REFERENCED DOCUMENTS.....	13
C PURCHASING GUIDELINES.....	14
D PLASTIC MATERIALS USED IN BALL VALVES.....	15
E BODY RESISTANCE TO BENDING MOMENT (PLASTIC-BODIED VALVES).....	17
F DETERMINATION OF WATERTIGHTNESS.....	19
G STRENGTH TEST FOR METAL-BODIED BALL VALVES.....	22
H TORQUE TEST FOR CONNECTOR NUTS AND VALVE BODY ASSEMBLIES.....	25
I TORQUE TEST FOR VALVE OPERATION.....	27

STANDARDS AUSTRALIA

Australian Standard

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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 at allowable operating pressures of PN 16 and PN 25 and continuous operating temperatures not exceeding 60°C.

This Standard applies to service connection ball valves, service connection termination ball valves and the right angle meter assembly ball valves. 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, that 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 Standard and any other relevant Australian Standard, when submitted for type testing.

1.3.3 Distortion

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

1.3.4 Right angle meter assembly ball valve

A below-ground or above-ground valve, having a lockable operating mechanism and for location adjacent to the property water meter. This valve may be installed with the copper riser at the time of the reticulation pipeline installation, laid over at 90° and buried instead of the termination ball valve. When buried, this valve shall be installed in the same manner as the termination ball valve complete with the open-threaded end capped or plugged. This valve may also be installed by the plumber at the time of property connection. See Figure 1.3.