AS 4956—2008

Australian Standard®

Air valves for water supply

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- Australian Chamber of Commerce and Industry
- Australian Electrical and Electronic Manufacturers Association
- Australian Industry Group
- Australian Stainless Steel Development Association
- Engineers Australia
- Master Plumbers Australia
- New Zealand Water & Waste Association
- Plastics Industry Pipe Association of Australia
- Water Industry Alliance
- Water Services Association of Australia

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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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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 air valves for water supply systems.

The objective of this Standard is to provide the design and material requirements and the performance tests required for air valves for installation in water supply systems, above and below ground, together with default compliance requirements for application by manufacturers and certification bodies.

The support and contribution of the Water Services Association of Australia (WSAA) and of manufacturers in the preparation of this Standard are acknowledged.

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

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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S E C T I O N 1 S C O P E A N D G E N E R A L

1.1 SCOPE

This Standard specifies requirements for metallic bodied PN 16, PN 21 and PN 35 air valves for water supply. This Standard is applicable to valve sizes DN 15 to DN 400 that are suitable for, but not limited to, use in drinking water supplies, with a maximum operating temperature of 60°C (see Note 2).

This Standard covers the following types of valves:

(a) Large-orifice air valve.

(b) Small-orifice air valve.

(c) Double-orifice air valve.

(d) Anti-slam air valve.

(e) Anti-vacuum valve.

NOTES:

1 Purchasing guidelines are given in Appendix B.

2 Based upon a maximum water temperature of 40°C within the main and the air valve being located on the top of an above-ground pipeline exposed to sunlight.

1.2 APPLICATION

Demonstration of compliance with this Standard shall be in accordance with Appendix A.

1.3 REFERENCED DOCUMENTS

The documents referred to in this Standard are listed in Appendix C.

1.4 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

1.4.1 Allowable operating pressure

The allowable internal pressure, excluding surge, that a component can safely withstand in service.

1.4.2 Allowable site test pressure

The maximum internal hydrostatic pressure that can be applied on site to a component in a newly installed pipeline.

1.4.3 Coating

A corrosion-inhibiting medium applied to the surfaces of a valve.

1.4.4 Coating defect

A detectable weakness or discontinuity in a coating, which deems it to be suspect in its ability to protect the substrate from corrosion during its normal service life.