AS 4956:2017
(Incorporating Amendment No. 1)

AS 4956:2017

Australian STANDARD

Air valves for water supply

STANDARDS Australia

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- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Stainless Steel Development Association
- Australian Water Association
- Casting Technology New Zealand
- 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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Australian Standard®

Air valves for water supply

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-022, Valves for Waterworks Purposes, to supersede AS 4956—2008.

This Standard incorporates Amendment No. 1 (June 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

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 materials requirements and performance tests for air valves in water supply systems, together with default conformance requirements for use by manufacturers and certification bodies.

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 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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STANDARDS AUSTRALIA

Australian Standard
Air valves for water supply

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for metallic and plastics bodied PN 10, 12, 16, 25, 35 and 40 air valves for water supply. This Standard is applicable to valve sizes DN 15 to DN 250 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 valves.

(b) Small-orifice air valves.

(c) Double-orifice air valves.

(d) Anti-slam air valves.

(e) Anti-vacuum valves.

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 above ground exposed to sunlight.

3 Alternative pressure classes are available and may be specified.

1.2 DEMONSTRATION OF CONFORMITY WITH THIS STANDARD

Conformity with this Standard shall be demonstrated in accordance with Appendix A. See Table A3.3(A) for type tests and Table A3.3(B) for production tests, on minimum sampling and frequency plan.

NOTE: The information that should be supplied by the purchaser, or by the manufacturer, is given in the purchasing guidelines set out in Appendix B.

1.3 NORMATIVE REFERENCES

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 (AOP)

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

1.4.2 Allowable site test pressure (ASTP)

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