AS 4883:2017

Australian STANDARD

Air valves for sewerage

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 February 2017.
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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

This Standard was issued in draft form for comment as DR AS 4883:2015.

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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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-022, Valves for Waterworks Purposes, to supersede AS 4883—2008.

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 wastewater 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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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 and plastics bodied PN 10 and PN 16 air valves for sewerage. This Standard is applicable to valve sizes DN 50 to DN 200 suitable for wastewater, 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.

NOTES:

1 Purchasing guidelines are given in Appendix B.

2 Based upon a maximum sewage temperature of 40°C with 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 testing 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

Documents referred to in this Standard for normative purposes 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.

1.4.3 Anti-slam switch point

The maximum air discharge rate and differential air pressure at which the anti-slam obturator of a switching disc type anti-slam device switches position to restrict the large-orifice air discharge rate.