AS 4883—2008

Australian Standard®

Air valves for sewerage

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 27 May 2008. This Standard was published on 22 September 2008.

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- 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

This Standard was issued in draft form for comment as DR 07310.

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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First published as AS 4883—2008.

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Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8875 0

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 sewerage.

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 compliance 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 support and contribution of the Water Services Association of Australia (WSAA) and manufacturers are acknowledged.

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
Air valves for sewerage

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for metallic-bodied PN 10, PN 16 and PN 21 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 valve

(b) Small-orifice air valve

(c) Double-orifice air valve

(d) Anti-slam air valve

NOTES:

1 Purchasing guidelines are given in Appendix B.

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

1.2 APPLICATION

Means for demonstrating compliance with this Standard shall be in accordance with Appendix A.

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

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.

1.4.5 Distortion

Any permanent deformation.

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