

EPS 501- List of Approved Non-Standard Products for Networks

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Revision details

Version No.	Clause	Description of revision
3	17	Added new clause for pipe embedment materials
2	All	Minor edits and formatting.
	1	Added requirement for where Sydney Water has undertaken a procurement activity for specialised goods and services to only use items or products by approved suppliers under the relevant contracts.
	4	Removed reference to end caps for pipes. Removed reference to lead free products.
	16	Added item for pressure sewer system components.
1		Original issue.

Introduction

This Specification is for the list of Approved Non-Standard Products for Networks for Sydney Water assets.

Sydney Water makes no warranties, express or implied, that compliance with the contents of this Specification shall be sufficient to ensure safe systems or work or operation.

It is the user's sole responsibility to ensure that the copy of the Specification is the current version as in use by Sydney Water.

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Acronyms

Acronym	Definition
MH	Maintenance holes
WSAA	Water Services Association of Australia

1. General

This contains a list of non-standard engineering products that have been deemed suitable for general use in Sydney Water's drinking water, recycled water, sewerage, and stormwater networks.

This specification must be read in conjunction with the associated Australian Standards, International Standards, Water Services Association of Australia (WSAA) Product Specifications, Water Industry Standards, relevant Sydney Water standards and specifications, and any specific contract documentation for the relevant project.

It is the Designer's responsibility to undertake all the necessary investigation and design work to ensure the nominated product is fit for purpose for their intended application.

Where Sydney Water has undertaken a procurement activity for specialised goods and services, only items or products provided by approved suppliers under the relevant contracts may be used.

2. Scope

This specification applies to non-standard products used in Sydney Water's drinking water, recycled water, sewerage and stormwater networks. For standard pipe and fittings, refer to EPS 500 – Engineering Product Specification for Standard Pipes and Fittings for Networks.

This specification does not apply to pipes and fittings associated with treatment plants.

3. Quality assurance

Manufacturers of products covered by this specification must be capable of demonstrating certification of their quality management system to ISO 9001 and environmental management system to ISO 14001 by conformity assessment bodies that are certified by the national accreditation authority.

All items must be suitable for the purpose intended and must be standard commercial items proven in actual service conditions in similar applications. Only manufacturers who are fully experienced, reputable, and qualified in the manufacture of such items must supply items specified herein.

4. Water quality

Pipes and fittings that are intended for conveyance of drinking water must comply with the requirements of AS/NZS 4020. Evidence of compliance to AS/NZS 4020 must be less than 5 years old. A scaling factor of 1 for pipe and 0.05 for fittings must be used.

Compliance must apply to pipe and fittings in the finished condition considering all coatings, linings, joint seals, flange gaskets, O-rings, and joint lubricants, which may come into contact with the water in the pipeline.

5. Gate valves for underpressure linestopping – water supply

5.1 Reference standards

Standard No.	Document title
WSA PS-283	Gate valves, resilient seated, for underpressure linestopping – water supply
BMIS0209	Sydney Water Technical Specification - Mechanical

5.2 Approved products

Supplier	Document title	Conditions of use
CNS Engineering	S-Gate Valve	-

6. Air valves for drinking water supply network

6.1 References

Standard No.	Document title
WSA PS-265	Air valves for pressure applications - water supply
BMIS0209	Sydney Water Technical Specification Mechanical

6.2 Approved products

Supplier	Document title	Conditions of use
Ventomat Australia	Vent-O-Mat (Series RBX)	-

7. Air valves for wastewater network

7.1 References

Standard No.	Document title
WSA PS-275	Air valves for pressure applications - sewerage
BMIS0209	Sydney Water Technical Specification Mechanical

7.2 Approved products

Supplier	Document title	Conditions of use
Ventomat Australia	Vent-O-Mat (Series RGX)	-
GFR Group	Vent Master (Standard & PX)	-

8. Automatic control valves

8.1 References

Standard No.	Document title
WSA PS-268	Automatic control valves for pressure applications - water supply
BMIS0209	Sydney Water Technical Specification Mechanical

8.2 Approved products

Supplier	Document title	Conditions of use
AVFI	Dorot (S300)	

9. Isolation valves with air valves and hydrants

9.1 Reference standards

Standard No.	Document title
SWC PS-277	Isolation valves with air valves and hydrants – water supply
BMIS0209	Sydney Water Technical Specification Mechanical

9.2 Approved products

Supplier	Document title	Conditions of use
AVK	AVK isolation valve 29/00	-
Betta	Betta isolation valve BIV42X1	-

10. Access covers and frames

10.1 Reference standards

Standard No.	Document title
WSA PS-290	Ductile Iron access covers and frames for water supply and sewerage to WSA 132
WSA PS-292	Macro-composite access covers and frames for water supply and sewerage to WSA 133
WSA PS-293	Thermoplastic access covers and frames for water supply and sewerage
WSA PS-294	Composite access covers and frames for water supply and sewerage

10.2 Approved products

Supplier	Document title	Conditions of use
ACO Polycrete	Saku (Class B)	Non-trafficable areas and not for fire prone areas
Durham	Solid top round cover with Sydney Water graphic	-

11. Maintenance Hole Make-up Rings

11.1 Reference standards

Standard No.	Document title
WSA PS-323	Maintenance Holes (MH) - Pre-Cast Concrete for Non-Pressure Applications - Gravity Sewerage
WSA PS-345	Polymeric Make-up Rings for Sewerage Access Chambers.

11.2 Approved products

Supplier	Document title	Conditions of use
ISC Services	Cretex Pro-Ring	Non-trafficable areas and not for fire prone areas

12. Surface cover and frame for stop valves

12.1 Reference standards

Standard No.	Document title
AS 3996	Access covers and grates
EPS-352	Stop valve - surface cover and frame

12.2 Approved products

Supplier	Document title	Conditions of use
Hygrade Water	SB002, SB002R, SB003, SB003R	-

13. Surface cover and frame for spring hydrant

13.1 Reference standards

Standard No.	Document title
AS 3996	Access covers and grates
EPS-354	Spring hydrant - surface cover and frame

13.2 Approved products

Supplier	Document title	Conditions of use
Hygrade Water	SB004, SB004R, SB004ET SB005, SB005R, SB005ET SB006, SB006R, SB006ET	-

14. Surface cover and frame for isolation valve with hydrant and air valve

14.1 Reference standards

Standard No.	Document title
AS 3996	Access covers and grates
WAT-1305-V and WAT-1306-V	Typical surface fitting installation - hydrants

14.2 Approved products

Supplier	Document title	Conditions of use
Crevet/Gatic	445x310mm, Class D, CO310	-
Durham	430x230mm, Class D, CO230	-

15. Plastic surround for spring hydrant and stop valve covers

15.1 Reference standards

Standard No.	Document title
EPS-359	Plastic surround for spring hydrant and stop valve covers
WAT-1305-V and WAT-1306-V	Typical surface fitting installation - hydrants

15.2 Approved products

Supplier	Document title	Conditions of use
Repeat Plastic Australia (Replas)	HC452, VC453, VC462	-
Daemco	SV round cover surround, hydrant square cover surround	-

16. Pressure sewer system components

16.1 Reference standards

Standard No.	Document title
WSA07 2007	Pressure Sewerage Code of Australia WSA-07 2007
D0001898	Sydney Water Supplement to Pressure Sewerage Code of Australia WSA-07 2007

16.2 Approved suppliers and products

Supplier No. / Name	Contract No.	Products
S22556242 Enviro One Services and Installations Pty Ltd	N-CW2226901	Collection tank with grinder pump, alarm control panel and cable to pump
S22557412 NOV Australia Pty Ltd	N-CW2226915	Collection tank with grinder pump, alarm control panel and cable to pump

17. Pipe embedment materials

17.1 Reference standards

Standard No.	Document title
AS/NZS 2566.2	Buried flexible pipelines Part 2: Installation
WSA PS-350	Compaction sand for pipe embedment
WSA PS-368	Recycled glass sand for pipe embedment
TfNSW T102	Test Method - Pre-treatment of road construction materials by repeated compaction
TfNSW T103	Test Method - Pre-treatment of road construction materials by artificial weathering

17.2 Approved products

Supplier	Product	Conditions of use
Boral	Engineered glass sand (Blended high grade compaction sand)	<p>Use of engineered glass sand must comply with the following Order and Exemption issued by the Environment Protection Authority (EPA):</p> <ul style="list-style-type: none"> - The Boral Engineered Glass Sand Order 2024 - The Boral Engineered Glass Sand Exemption 2024 <p>A written statement of compliance must be obtained from the supplier of Boral engineered glass sand, along with a copy of the Order and Exemption, on or before each transaction certifying that all the requirements set out in the Order have been met.</p> <p>Location, quantity and extent of Boral engineered glass-sand used for each project must be documented on Work-as-Constructed drawings.</p>

Ownership

Ownership

Role	Title
Group	Asset Lifecycle
Owner	Norbert Schaeper, ETS Engineering Modernisation Manager
Author	Henry Pisanko, Senior Civil Engineer

Change history

Version No.	Prepared by	Date	Approved by	Issue date
1	Jerry Sunarho, Robert Loncar	18/02/2020	Steve Keevil-Jones, Manager UD&E	18/02/2020
2	Henry Pisanko	1/11/2023	Norbert Schaeper	1/11/2023
3	Robert Loncar	2/10/2024	Norbert Schaeper	2/10/2024