



Engineering

Technical Standard

TS 0501 – Product Appraisal and Authorisation

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**Government of
South Australia**

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Users of this Standard accept sole responsibility for interpretation and use of the information contained in this Standard. Users should independently verify the accuracy, fitness for purpose and application of information contained in this Standard.

Only the current revision of this Standard should be used which is available for download from the SA Water website.

Significant/Major Changes Incorporated in This Edition

This is the first issue of this Technical Standard.




Document Controls

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1 Introduction

SA Water is responsible for the construction and commissioning of an extensive amount of engineering infrastructure such that it is safe and fit for purpose.

This standard has been developed to assist in the design, maintenance, construction, and management of this infrastructure. This is achieved through the appropriate appraisal and validation of products, to ensure they are suitable for their intended purpose and compliant with relevant Australian and International Standards.

SA Water's Technical Standards for authorised products, have been developed in compliance with the procedure contained within this standard. SA Water and AS/NZS 4020, have obligations to comply with the Australian Drinking Water Guidelines (ADWG), Which states in clause 3.4. "The products used in water systems should be subjected to an audited system of quality control. The effectiveness of preventive measures is highly dependent upon the design and implementation of associated process control programs."

To consistently achieve a high-quality water supply, it is essential to have effective control over the processes and activities that govern drinking water quality."

1.1 Purpose

The purpose of this Technical Standard is to provide information and guidance, regarding the steps SA Water Engineering undertakes, when appraising and authorising products for use in its water and wastewater networks. The product appraisal requirements apply equally, for products to be used on new infrastructure, as well as modifications to existing infrastructure.

SA Water may appraise a product, if it considers the item will provide of benefit to SA Water.

1.2 Glossary

The following glossary items are used in this document:

Term	Description
ADWG	Australian Drinking Water Guidelines
AS/NZS	Australian and New Zealand Standard
ATS	Australian Technical Specification
BS	British Standards
IP	Intellectual Property
ISO 9001	International Standards Organisation 9001 (Quality Management Systems)
NSF/ANSI	American National Standards Institute
PA	Product Appraisal
PS	Product Specification
RFEE	Request For Engineering Engagement
SA Water	SA Water Corporation
SAW IS	SA Water Internal Stakeholder
SiD	Safety in Design
TS	SA Water Technical Standard
WMK	WaterMark
WSAA	Water Services Association of Australia
WSAA PA	Water Services Association of Australia Product Specification
WSAA PS	Water Services Association of Australia Product Specification

1.3 References

1.3.1 Australian and International Standards

The following table identifies Australian and International standards and other similar documents that are included in the products appraisal process:

Number	Title
AS 1281	Cement mortar lining of steel pipes and fittings
AS 1432	Copper tubes for plumbing, gas fitting and drainage applications
AS 1579	Arc-welded steel pipes and fittings for water and wastewater
AS 2033	Installation of polyethylene pipe systems
AS 2345	Dezincification resistance of copper alloys
AS 2419	Fire hydrant installations - Fire hydrant valves
AS 3680	Polyethylene sleeving for ductile iron pipelines
AS 3681	Guidelines for the application of polyethylene sleeving to ductile iron pipelines and fittings
AS 3688	Water supply - Metallic fittings and end connectors
AS 3952	Water supply - Spring hydrant valve for waterworks purposes
AS 3996	Access covers and grates
AS 4181	Stainless steel clamps for water works purposes
AS 4794	Non-return valves - swing check and tilting disc
AS 4795	Butterfly valves for water works purposes
AS 4822	External field joint coatings for steel pipelines
AS 4956	Air valves for water supply
AS 5081	Hydraulically operated automatic control valves for waterworks purposes
AS/NZS 1477	PVC pipes and fittings for pressure applications
AS/NZS 2032	Installation of PVC pipe systems
AS/NZS 2280	Ductile iron pipes and fittings
AS/NZS 2638.1	Gate valves for water works purposes – metal seated
AS/NZS 2638.2	Gate valves for water works purposes – resilient seated
AS/NZS 2648.1	Underground marking tape - non-detectable tape
AS/NZS 4020 (2018)	Testing of products for use in contact with drinking water
AS/NZS 4087	Metallic flanges for Waterworks purposes
AS/NZS 4129	Fittings for polyethylene (PE) pipes for pressure applications
AS/NZS 4130	Polyethylene (PE) pipes for pressure applications
AS/NZS 4131	Polyethylene (PE) compounds for pressure pipes and fittings
AS/NZS 4158	Thermal - bonded Polymeric coatings on valves and fittings for water industry purposes
AS/NZS 4441	Oriented PVC (PVC-O) pipes for pressure applications
AS/NZS 4765	Modified PVC (PVC-M) pipes for pressure applications
AS/NZS 4793	Mechanical tapping bands for waterworks purposes
AS/NZS 4998	Bolted Unrestrained Mechanical Couplings

WSA 03:2011	Water Supply Code of Australia
WSA PS 106	Air valves
WSA PS 200	Ductile iron pipes for Pressure Applications
WSA PS 201	Ductile iron fittings for Pressure and Non-Pressure Applications
WSA PS 203	Steel pipe for Pressure and Non-Pressure Applications
WSA PS 207	Polyethylene (PE) pipe for Pressure and Non-Pressure Applications
WSA PS 208	Plastic Moulded Fittings for Pressure Applications with PE Pipe
WSA PS 209	Polyvinylchloride, Modified (PVC-M) Pressure Pipes for Pressure Applications
WSA PS 210	Polyvinylchloride, Oriented (PVC-O) Pressure Pipes for Pressure Applications
WSA PS 211	Polyvinylchloride, Unplasticised (PVC-U) Pressure Pipes for Pressure Applications
WSA PS 260	Gate Valves, Resilient Seated for Pressure Applications
WSA PS 262	Extension spindles for gate valves
WSA PS 263	Butterfly Valves for Pressure Applications
WSA PS 264	Non-Return (Reflux) Valves for Pressure Applications
WSA PS 265	Air Valves for Pressure Applications
WSA PS 267	Hydrants (spring) for Pressure Applications
WSA PS 270	Mechanical Couplings, Non-End Thrust Restraint for Pressure Applications
WSA PS 290	Ductile Iron Access Covers and Frames for Water Supply and Sewerage
WSA PS 313	Repair and Off-Take Clamps for Pressure Applications
WSA PS 318	Marking tape, detectable
WSA PS 319	Marking tape, non-detectable

1.3.2 SA Water Documents

The following table identifies the SA Water standards and other similar documents referenced in this document:

Number	Title
TS 0500	Authorised Products for Maintenance of Water & Sewer Systems
TS 0502	Authorised Products Gravity Sewer and Pressure Pumping Main Systems
TS 0503	Authorised Products Water Systems

1.4 Definitions

The following definitions are applicable to this document:

Term	Description
Manager Quality and Innovation	Manager, Engineering Quality and Innovation referenced on page 3.
Material Sciences	The Engineering Material Science Team
Procurement	Category Lead or Category Specialist.
Reticulation Networks Specialist	The Engineering discipline lead responsible for TS 0501.
SA Water Internal Stakeholders	Members of the Engineering, Infrastructure Planning and Strategy (IP&S), Customer Technical Services (CTS) or Customer Field Services (CFS) Teams.
Supply Chain	Inventory and Logistics Team.

2 Scope

This Standard applies to products intended for use in water and sewer reticulation networks and is intended to provide guidance on the following types of product applications.

Established products - Are classified as, existing products which are manufactured and currently used interstate or overseas, by other water utilities.

Non-established products - Are those products which are not currently used by SA Water, but for which there is an operational need. Where operational issues are experienced, they should be formally logged in SAAM and the Operational Issues Register. Following this, a potential solution or alternate product/material may be suggested. These will be assessed by SA Water internal stakeholders and field trialled, to determine suitability. This would be in the form of new product innovations.

2.1 Safety in Design

SA Water is committed providing safe workplaces for our people and safe services for our customers.

In keeping with this commitment, and to ensure the Supplier/Manufacturer has satisfied their legislated duties, the Supplier/Manufacturer shall provide information in accordance with the Work Health and Safety Act 2012 (SA) part 2 division 3, section 25. This may take the form of Operation and Maintenance manuals and/or SiD Hazard Registers (as specified by TS0101).

Designers that utilise products contained in this Standard shall apply SA Water Technical Standard TS0101 to incorporate the information provided by the Supplier/Manufacturer in the development of their design/s and transfer this to relevant parties.

3 Process for New Product Authorisation

The reliability of water and sewerage systems depends on the materials and products used during its construction. The appropriate selection of products and materials is essential to achieving the life expectancy of the assets. SA Water Engineering may appraise a product, if it considers the item will provide a benefit to SA Water, based on its ability to achieve the stated asset life. Initial contact between SA Water and an applicant, is for us to assess if there is a need for a product and to get a better understanding of the company and their ability to supply (if approved).

SA Water will only approve a product if:

- It complies with the sizing identified in the Technical Standards and
 - it has a favourable product appraisal by WSAA
 - we do not have an equivalent approved product (innovative product)
 - it complies with the relevant product Australian/international Standards

The WSAA appraisal is an important part of the SA Water product assessment process. However, a favourable product appraisal by WSAA, does not ensure SA Water product approval.

SA Water does not give preference to any particular brand or type of product and may include additional equivalent products, in accordance with our product appraisal Process.

Where products are to be acquired for SA Water stores inventory or for procurement purposes, the steps set out in Table 2 below, shall be followed.

3.1 Process Steps

3.1.1 Established Products

Steps undertaken for Established Products to be appraised, are listed in Table 1 below:

Table 1 Established Products - Appraisal Process

Step	Description	Relevant Stakeholders
1.	Manufacturer; Supply Chain, Procurement, SA Water Internal Stakeholders, contact SA Water Engineering seeking product appraisal and suitability of proposed product.	<i>Any of the following:</i> Manufacturer, Supply Chain, Procurement, SA Water Internal Stakeholders Reticulation Networks Specialist
2.	Manufacturer to submit completed Application for Product Authorisation Form (Form 101) along with supporting documentation. Engineering may also request a product sample for Appraisal.	Manufacturer, Reticulation Networks Specialist
3.	Information is cross-referenced and verified by Engineering, for compliance with all current relevant standards and testing requirements, as specified in section 4 of this standard. Manufacturer will be contacted if additional information is required.	Reticulation Networks Specialist
4.	Compliance verification, captured in Product Appraisal Spreadsheet	Reticulation Networks Specialist

Step	Description	Relevant Stakeholders
5.	Product is appraised for suitability and if accepted, it will be included in the relevant SA Water Engineering Technical Standard. The manufacturer will be provided an Authorisation Certificate and Approval Letter.	Reticulation Networks Specialist
6.	If a product is deemed to be unsuitable, the manufacturer will be notified of the reasons for non-approval.	Reticulation Networks Specialist

3.1.2 Non-Established Products

Steps undertaken for Non-Established Products to be appraised, are listed in Table 2.

Table 2 – Non-Established Products - Appraisal Process

Step	Description	Relevant Stakeholders
1.	SA Water Internal Stakeholders require a solution, to mitigate or eliminate a risk or safety issue.	SA Water Internal Stakeholder
2.	SA Water Internal Stakeholders consider a suitable product, that would suit their needs.	SA Water Internal Stakeholder
3.	Supply Chain, Procurement, or SA Water Internal Stakeholders, contact SA Water Engineering via the RFEE process, to discuss suitability of proposed product solution/innovation.	Any of the following: Manager Quality and Innovation. Reticulation Networks Specialist. Material Science Team. Supply Chain Procurement SA Water Internal Stakeholder
4.	If the solution is deemed suitable; Supply Chain, Procurement, or SA Water Internal Stakeholders, meet with Engineering and Procurement to discuss design, materials, standards compliance and potential manufacturers. If design drawings are required, a Work Order number is to be submitted to Engineering, via the RFEE engagement process.	Reticulation Networks Specialist. Supply Chain Procurement SA Water Internal Stakeholder
5.	Samples to be sent from manufacturers, to enable a field trial to be undertaken, with IP for trial product owned by SA Water.	Reticulation Networks Specialist. SA Water Internal Stakeholder
6.	If trial is successful, Procurement put together terms of purchase contract, including IP ownership and standards to be complied with.	Procurement Group. Reticulation Networks Specialist.
7.	Design drawings created and manufacturers contacted for costings quote and minimum supply volumes required.	Reticulation Networks Specialist. Supply Chain Procurement Group.
8.	Review of manufacturers submissions and award of supply contract.	Procurement Group.

Step	Description	Relevant Stakeholders
9.	Manufacturer to submit completed Application for Product Authorisation Form (Form 101), along with supporting documentation.	Reticulation Networks Specialist
10.	Information from Manufacturer is cross-referenced and verified by Engineering, for compliance with all current relevant standards and testing requirements.	Reticulation Networks Specialist
11.	Compliance verification captured in Product Appraisal Spreadsheet	Reticulation Networks Specialist
12.	If product is accepted, it will be included in the relevant SA Water Engineering Technical Standard. The manufacturer will be provided an Authorisation Certificate and Approval Letter.	Reticulation Networks Specialist
13.	If a product is deemed to be unsuitable, the manufacturer will be notified of the reasons for non-approval.	Reticulation Networks Specialist

3.1.3 Standard Appraisal Documentation

The following list specifies relevant information used in the product appraisal process.

- WSAA Appraisal (latest version)
- WSA Product Specification
- Products type/s – Description
- Size range/s
- Connection/Joint type
- Product material composition and coatings
- Pressure/Stiffness rating/s
- Relevant AS/NZS compliance certificates (e.g., AS/NZS 4020 – 2018, AS 3996)
- Relevant International Standards certificates (e.g. to BS 6920 or NSF/ANSI 61)
- WaterMark Certification
- Compliance to relevant SA Water TS (e.g. TS 0710, TS 0467 etc)
- Intended use (product fit for environmental exposure)
- Copies of current ISO 9001 certification
- Relevant test reports
- Which TS the product aligns with (e.g. TS 0500, TS 0502, TS 0503)
- List of water authorities currently using the product
- Manufacturing Company contact details
- Location of manufacturing facility
- Training requirement for product
- Product brochure, images or drawings
- UV stabilisation compounds (where applicable)
- Temperature limitations
- SiD compliance report for larger products

3.1.4 AS/NZS 4020 Compliance

Where products are intended to be in contact with drinking water, we require that they comply with AS/NZS 4020 (2005). Where products contain organic materials and have passed testing to the 2005 version of this standard, gap testing to clause 6.8 (organics testing) of the AS/NZS 4020 (2018) version, must be undertaken and a test report provided to SA Water. The test results must include values of nitrosamine leaching. Compliance with this standard must also be verified at any change of material composition, change of design, or every 5 years - whichever occurs first.

The information and recommendations specified in the SA Water Technical Standard TS 0800 (Materials in Contact with Drinking Water), also form part of the product appraisal process.

A valuable component of the SA Water product appraisal process is a Product Appraisal undertaken by WSAA.

- If a favourable WSAA Appraisal has been finalised, it shall be submitted (in full), together with the Application Form and any requested information.
- Where no WSAA Appraisal is available, SA Water will require the manufacturer to submit comprehensive supporting documentation, to support an appropriate appraisal.

Where SA Water has identified a need for a specific type of product, such as an innovation, or untrials product, we may choose to proceed with a product appraisal (even in the absence of a WSAA Appraisal).

SA Water is under no obligation to review any product (even if it has been appraised by WSAA and may be approved by other Water Authorities).

Where a product has been authorised for use, SA Water reserves the right to withdraw or amend that authorisation, for any reason it deems necessary. In these circumstances, the manufacturer will be notified.

4 Conditions of Product Authorisation

Where a range of items or sizes are involved, product authorisation applies only to those items or sizes listed in the following SA Water Corporation, Reticulation Networks Technical Standards:

- TS 0500 Authorised Products for Maintenance of Water & Sewer Systems
- TS 0502 Authorised Products Gravity Sewer and Pressure Pumping Main Systems
- TS 0503 Authorised Products for Water Systems
- TS 0504 Authorised Products for Packaged Sewer Pumping Stations
- TS 0506 Authorised Products for Vacuum Sewer Systems
- TS 0507 Authorised Products for Pressure Sewer Systems

Authorisation does not refer to the effectiveness of products and no claim shall be made through advertising, promotion or in any other way that authorised products have been validated or tested by the corporation, other than the terms stated in this standard.

The items described in the authorisation certificate, are approved for use in SA Water's Infrastructure systems, in accordance with the Corporations Construction Standards and shall be manufactured under a third party certified, Quality Assurance System. All products shall be identified with the following:

- Manufacturer's name or trademark.
- Nominal size.
- Material type.
- Pressure Classification.
- Australian Standard number.

The manufacturer shall be responsible for ensuring, the quality of the products that are supplied to the market. Where authorised products or parts thereof, are manufactured or assembled by a third party, the manufacturer shall employ systematic procedures to verify product conformance.

The products shall demonstrate satisfactory performance when installed in SA Water's infrastructure system.

The manufacturer shall notify SA Water in writing if.

- the third-party ISO 9001 certification is withdrawn, suspended or changed,
- any change of the certification agency occurs,
- there are any changes to product design, materials, model numbers etc,
- the products are to be withdrawn from sale.
- the five yearly AS/NZS 4020 product compliance testing, has been undertaken and passed.

Products may be subjected to random quality control checks, for which a sample may be required, and a charge may apply. Compliance with new material/products standards as they are replaced, will need to be demonstrated by the manufacturer.

SA Water reserves the right to request additional information and/or evidence of product suitability and reserves the right to modify or withdraw any authorised product or material from its Technical Standards or other published documents, for any reason it deems appropriate.

4.1 Disclaimer





It is the responsibility of the end user to ensure materials and products to be used, are stored and used in accordance with manufacturer's recommendations and have not exceeded stated expiry dates.

Appendix A : Products Appraisal Records

Information related to products undergoing appraisal, is stored in compliance with the SA Water corporation Privacy Policy. This policy ensures the way we collect, use, disclose and store personal information meets legislative requirements, community expectations, and the state government's Information Privacy Principles. Our integrity in managing and protecting personal information builds confidence with our people, customers and stakeholders.

Once products are authorised for use, they are included in the relevant Engineering Technical Standard (e.g., TS 0500, TS 0502, TS 0503), which is accessible via the SA Water website.

A1 Example of Authorised Products Spreadsheet

Water	HDW	Growth & Sales	Pressure Source	Vacuum Source	Product Details	Image	Size	Rating	Limitation	Compliance Certificates and Verification Supplied							Other Utiliser		
										4020 (2005)	4020 (2018)	2010 (Gap)	AS/NZS	ATS	WSAPA	WSAPS		WHK	AS/NZS ISO 9001
•	•				012.5 Water meter box, with composite polymer/concrete top/bore		500mm x 300mm x 250mm	Class 'D' Load Rating		N/A	N/A	N/A	AS 3496					Exp. Aug 21	SA Water only
•	•		•		Ductile Iron Flange - Blank and Topo 4 (FBE Coated)		DN 60 - 375	PN16		3105/2017	N/A	12105/2020	AS/NZS 2200 AS/NZS 4087 AS/NZS 4188	N/A	PA 1905 (Issue 2)	WSAPS 201 WSAPS 312	WH1022392 WHK20047	Exp. Jan 2023	City West Water Sawth East Water Yarra Valley Water
•	•		•	•	Norma Connect - Grade 316 stainless steel repair clamp, 316 stainless steel 1Mx stud, washer and nut.		DN 60 - 300	PN16	Type - F S2 PVC-O PVC-U GRP Type - R DI Steel Copper AO Max PE	1310/2016	N/A	13105/2020	AS/NZS 4101	N/A	PA 1421	PS 313	WHK30057	Exp. Jan 2023	City West Water
•	•		•		Ductile Iron with 316 Stainless Steel Balz. Di with PE Flange - Offtake		DN 125-60 DN 125-100 DN 150-60 DN 150-100	PN16	Only for use on PE 100 Pipe, DI, S2 PVC, OI, AO, GRP. Size PE 125 and 150, S2 100 (60 and 100) 150 (60 and 100)	2700/2018	N/A	1712/2019	AS/NZS 4129 AS 4101 AS 1446	N/A	PA 1528 PA 2025	WSAPS 327	WHK24335	Exp. Jul 2021	City West Water Sawth East Water Yarra Valley Water Brimbank Water Goulburn Valley Water Manawatu Water Central Highlands Water Coliban Water Lalor Murray Water

A2 Example of Product Authorisation Certificate and Letter

Certificate of Product Authorisation		SA Water	
Issued to			
[Redacted]			
Authorisation No:	20K/1003	Standards Mark Ref:	OMK30057
Australian Standard:	AS/NZS 4181 AS/ NZS 4020 (2018)	WSAA Product Appraisal No:	WSAA PA 1621
Other Standards:	WSA PS – 313	Product Authorisation Date:	16/07/20
Product Description			
Product Type/ Rating	[Redacted] (PN 16)	- Grade 316 stainless steel repair clamps	
Size Range	DN 80 to DN 300		
Conditions			
<p>1. Where a range of items or sizes are involved, this Authorisation applies only to those items or sizes listed in the SA Water corporation, Authorised Items Catalogue.</p> <p>2. This Authorisation does not refer to the effectiveness of the product and no claim shall be made through advertising, promotion or in any other way that the above products have been authorised or tested by the corporation in other than the terms of this authorisation.</p> <p>3. The items described above are authorised for use in SA Water's infrastructure systems, in accordance with the Corporation's Construction Documentation and shall be manufactured under a third party certified Quality Assurance System. All products shall be identified with the manufacturer's name or trade mark.</p> <p>4. [Redacted] shall be responsible for assuring the quality of the approved products that are supplied to the market. Where approved products or parts thereof are manufactured or assembled by a third party, [Redacted] PTY LTD shall employ systematic procedures to verify product conformance.</p> <p>5. The products shall be manufactured under a third party certified Quality Assurance System. All</p>		<p>products shall be identified by the manufacturer's name or trade mark.</p> <p>6. The products shall demonstrate satisfactory performance when installed in SA Water's infrastructure system.</p> <p>7. The Corporation shall be notified in writing if:</p> <ul style="list-style-type: none"> • the third party ISO 9001 certification is withdrawn, suspended or changed, • any change of the certification agency occurs, • there are any changes to product design, materials, model numbers, etc or • the products are to be withdrawn from sale. • the five yearly AS/NZS 4020 product compliance testing, has been completed. <p>8. The products may be subjected to random quality control checks for which a sample may be required, and a charge may apply. Compliance with new Standards as they are replaced will need to be demonstrated by the manufacturer.</p> <p>9. SA Water reserves the right to request additional information and/ or evidence of product suitability. SA Water reserves the right to modify or withdraw any authorised product or material from its Technical Standards or other published documents, for any reason it deems appropriate.</p>	
Authorised by	Kevin Claridge		
Date:	16/07/2020		



Appendix B : Product Defect Advice Form

Product Defect Advice Form 

This form shall be completed if a product/material listed in the SA Water - Engineering Technical Standards, is found to have failed; contain defects, or is considered not fit for its intended purpose.

The product or material must be returned to the supplier, as this will assist manufacturers in determining the cause of the defect and provide them the opportunity to undertake the required improvements.

The completed form is to be forwarded to: -
Reticulation.Networks@sawater.com.au

Defect Reported by:

Contractor/Superintendent/SA Water Representatives Name.....

Company Position.....

Contact Details: Email..... Mobile.....

Project/Development/Construction Location.....

Product/Material type..... **Coating**.....

Manufacturer Name..... **Size**.....

Suppliers Name (if known)

Description of Defect (e.g., broken/split, cracked/size defect etc.)

.....

Images:

Version 0.1 26/03/2021	Document ID: Product Defect Advice Form	Page 1 of 1
 Government of South Australia	South Australian Water Corporation 250 Victoria Square/Tarntanyangga ADELAIDE SA 5000 GPO Box 1751 ADELAIDE SA 5001	1300 650 950 ABN 69 336 525 019 sawater.com.au


This form is available to download, from the SA Water website.

Appendix C : Product Application Form

SA Water

Form 101

**APPLICATION FOR
PRODUCT AUTHORISATION**
FOR USE WITHIN
SA WATER CORPORATION
Water and Sewer Reticulation Networks

 **Government of
South Australia**

South Australian Water Corporation
250 Victoria Square/Tamtanyangga ADELAIDE SA 5000
GPO Box 1751 ADELAIDE SA 5001

1300 SA WATER (1300 729 283)
ABN 69 336 525 019
sawater.com.au

This form is available to download, from the SA Water website.