



WaterMark Certification Scheme

Notice of Direction 2021/4.0

Certification transition arrangements for lead free plumbing products

Intent

This notice is to provide direction on the certification transition arrangements for the lead free requirements outlined in the National Construction Code (NCC) 2022 Volume Three (the Plumbing Code of Australia). This is the first of several notices relating to the transition arrangements.

Background

This Notice of Direction is provided in accordance with clause 5(c) of the Rules for the WaterMark Certification Scheme.

The Australian Building Codes Board (ABCBC) decided to limit the allowable lead content in plumbing products, which contain copper alloys and are intended for use in contact with drinking water, to a weighted average lead content of not more than 0.25%.

A5G4 of NCC 2022 (at **Attachment 1**) outlines new requirements for any plumbing product containing copper alloy and intended for use in contact with drinking water, as well as the means for demonstrating evidence of suitability to those requirements.

A 3 year transition period will be provided in NCC 2022, and from 1 September 2025, A5G4(2) of the NCC Volume Three will take effect. Only products WaterMark certified as conforming to the lead free provisions, where required, will be authorised for use in plumbing installations. Products that do not conform to the lead free provisions will no longer have valid certification and will not be authorised for use in contact with drinking water.

This notice details arrangements for stakeholders of the WaterMark Certification Scheme during the transition of certification from the current material requirements to the new lead free requirements outlined in A5G4 of NCC 2022.

These arrangements ensure the continuity of certification and authorisation for use of new products, products that have already been certified and products that will fall due for re-certification, from the date of this notice.

Lead is currently permitted in small proportions in the raw materials used to manufacture some plumbing products. Whilst the allowable lead levels permitted in these products ensures compliance with the Australian Drinking Water Guidelines, the use of lead free products will contribute to improved public safety.

Reference Documents

Primary

- WaterMark Schedule of Products
- Manual for the WaterMark Certification Scheme
- NCC 2022 Volume Three, and any subsequent editions
- Decision Regulation Impact Statement:
Lead in plumbing products in contact with drinking water

Direction

The directions are as follows:

- 1.0 The lead free requirements of the National Construction Code 2022 are shown at **Attachment 1** of this notice. Transition arrangements to comply with these requirements by 1 September 2025 will commence on 1 September 2022.
- 2.0 The meaning of words used in this notice are as per the Manual for the WaterMark Certification Scheme clause 1.3 Definitions.
- 3.0 DOCUMENTATION

3.1 WaterMark Schedule of Products

A review of all products listed on the WaterMark Schedule of Products (WMSP), to determine if they would be included or excluded from the lead free requirements, was undertaken by the ABCB office, in consultation with industry representatives, in September 2021.

A rationale is provided at **Attachment 2** and the outcomes of this review are listed at **Attachment 3** of this notice, and will be published on the WaterMark website on, or before, 1 September 2022.

Transition

- 3.1.1 From the date of this notice, industry stakeholders (manufacturers, WaterMark Conformity Assessment Bodies [WMCABs], Approved Users and Accredited Testing Laboratories) may commence adjusting operations to test, certify and supply lead free products for which the requirements apply.
- 3.1.2 From 1 September 2022, or when the WMSP noted in 3.1 above is published on the WaterMark website, industry stakeholders shall review the WMSP and commence adjusting operations to test, certify and supply lead free products for which the requirements apply.
- 3.1.3 From 1 September 2025 industry stakeholders shall review the WMSP and shall test, certify and supply lead free certified products, for which the requirements apply.

3.2 *Applicable Specifications*

All applicable specifications used to certify plumbing products containing copper alloy, and intended for use in contact with drinking water, will be listed on the WMSP noted in 3.1 above, and are listed at **Attachment 3** of this notice.

Transition

- 3.2.1 From the date of this notice, if the product is being certified, or re-certified, to comply with the lead free requirements, the testing requirements of applicable specifications used to certify plumbing products containing copper alloy, which are intended for use in contact with drinking water, shall also include testing to NSF/ANSI/CAN 372.
- 3.2.2 From 1 September 2025, the testing requirements of applicable specifications used to certify plumbing products containing copper alloy, which are intended for use in contact with drinking water, shall include testing to NSF/ANSI/CAN 372.

3.3 *Development of Product Specifications*

The ABCB will continue to publish new and amended WaterMark Technical Specifications and stakeholders will have the opportunity to have product specifications published through a third party considered for acceptance into the Scheme. In both scenarios, public consultation will be undertaken for new, amended or revised product specifications, including peer review via the WaterMark Technical Advisory Consultants and the Plumbing Code Committee, prior to Administering Body acceptance for inclusion in the Scheme.

Transition

- 3.3.1 From the date of this notice until 31 August 2025 all new, amended or revised product specifications, used to certify plumbing products containing copper alloy that are intended for use in contact with drinking water, may include provisions to achieve compliance with the lead free requirements outlined in A5G4 of NCC 2022.

- 3.3.2 From 1 September 2025 all new, amended or revised product specifications, used to certify plumbing products containing copper alloy that are intended for use in contact with drinking water, shall include provisions to achieve compliance with the lead free requirements outlined in A5G4 of NCC 2022.

4.0 CERTIFICATION

All plumbing products requiring certification or re-certification to the lead free requirements must be evaluated in accordance with the procedure for certification outlined at Section 8 of the Manual for the WaterMark Certification Scheme. WaterMark Conformity Assessment Bodies are responsible for determining if a plumbing product is subject to, or excluded from, the lead free requirements of NCC 2022.

Transition

- 4.1 From 1 September 2022, where an existing certified product is re-certified to meet the lead free requirements, and retains the same Model Name and Model ID, certification of the superseded version shall be cancelled (and manufacture and supply under WaterMark ceased) on or before the date of re-certification.
- 4.2 From 1 September 2022, where an existing certified product maintains certification, and an alternative version of the product is certified to meet the lead free requirements, the alternative version shall have a different Model Name and Model ID to the existing version. The alternative version of the product shall be added to the WaterMark Certificate of Conformity and included in the WaterMark Product Database.
- 4.3 From 1 September 2025, any certified plumbing product containing copper alloy and intended for use in contact with drinking water, that was not manufactured to meet the lead free requirements and recertified as a lead free product, shall no longer be authorised for installation. The product shall be deleted from the WaterMark Certificate of Conformity and removed from the WaterMark Product Database.

5.0 PRODUCT MARKING

A separate Notice of Direction will be published by the ABCB in the first quarter of 2022 outlining product marking requirements and recommendations.

6.0 MATERIALS

A separate Notice of Direction will be published by the ABCB in the first quarter of 2022 outlining the materials requirements and recommendations.

7.0 ENFORCEMENT AT POINT OF INSTALLATION

Enforcement of the requirements of the WaterMark Certification Scheme and the NCC is undertaken at the point of installation by the state or territory plumbing administration having jurisdiction.

All certified plumbing products, whether manufactured in compliance with the current requirements outlined in the applicable specification or the lead free requirements, must have a current WaterMark Licence and be listed in the WaterMark Product Database to be authorised for use in a plumbing and drainage installation.

Transition

- 7.1 From the date of this notice until 31 August 2025, any certified plumbing product containing copper alloy and intended for use in contact with drinking water that was not manufactured to meet the lead free requirements but has a current WaterMark Licence and is listed in the WaterMark Product Database, shall remain authorised for installation until the WaterMark Licence has been cancelled or expired. This will enable the phasing out of such products from the supply chain.
- 7.2 From 1 September 2025, any certified plumbing product containing copper alloy and intended for use in contact with drinking water, that was not manufactured to meet the lead free requirements, shall no longer be authorised for installation.

Further Information

Should any WaterMark Certification Scheme stakeholder require further clarification, they should contact the ABCB office directly for further advice on 1300 134 631 or email watermark@abcb.gov.au.

Date of publication: 23 December 2021

ATTACHMENT 1

A5G4 Evidence of suitability - Volume Three (PCA) 2022

- (2) Any *product* that contains copper alloy and is intended for use in contact with *drinking water* must have a *weighted average* lead content of not more than 0.25% verified in the form of either—
- (a) a test report provided by an *Accredited Testing Laboratory*, in accordance with NSF/ANSI/CAN 372; or
 - (b) a *WaterMark Licence* issued in accordance with (3), if it includes compliance with NSF/ANSI/CAN 372.

Notes:

1. A5G4(2) does not take effect until 1 September 2025.
2. Note 1 does not prevent use of *products* certified in accordance with A5G4(2) prior to 1 September 2025.

Application:

Products subject to the requirements of A5G4(2) are specifically nominated in the *WaterMark Schedule of Products*.

Exemption:

1. *Products* that are used exclusively for non-drinking uses such as manufacturing, industrial processing, irrigation, or other uses where water is not anticipated to be used for human consumption are excluded from the requirements of A5G4(2).
2. *Products* excluded from the requirements of A5G4(2) are specifically nominated in the *WaterMark Schedule of Products*.

Explanatory information:

1. Some examples of *products* subject to A5G4(2) include:
 - (a) Copper alloy fittings.
 - (b) Stainless-steel braided hoses.
 - (c) Valves (such as valves used for isolation, backflow prevention, alteration of pressure and temperature).
 - (d) Taps and mixers.
 - (e) Water meters.
 - (f) Pumps (for use with cold and heated water services).
 - (g) Water heaters.
 - (h) Residential water filtration equipment.
 - (i) Water dispensers (such as boiling and cooling units, drinking fountains and bottle fillers).
 - (j) Fire sprinkler systems connected to the cold water service that are not isolated from fixtures and fittings intended to supply water for human consumption
2. Some examples of *products* excluded from the requirements of A5G4(2) include:
 - (a) Shower heads for bathing.
 - (b) Emergency showers, eye wash and/or face wash equipment.
 - (c) Pumps used for irrigation, fire-fighting or other non-drinking purposes.
 - (d) Fire-fighting water services and equipment including residential fire sprinklers.
 - (e) Appliances, including dishwashers and washing machines.
 - (f) Commercial boilers associated with heating, ventilation and air-conditioning systems.
 - (g) Sanitary fixtures (such as toilets, cistern inlet valves, bidets and urinals).
 - (h) *Non-drinking water* services (such as recycled water systems).

3. Lead is currently permitted in small proportions in the raw materials used to manufacture some plumbing products. Whilst the allowable lead levels permitted in *products* ensures compliance with the Australian Drinking Water Guidelines, the use of *lead free* products is encouraged to avoid the potential for adverse effects on human health.

NCC 2022 Lead Free Requirements - Rationale for the Scope of Plumbing Products

Background

The ABCB decided to limit the allowable lead content of plumbing products containing copper alloy in contact with drinking water to a weighted average lead content of not more than 0.25%.

This change will be given effect through NCC 2022.

Drinking water is defined in the NCC as “water intended primarily for human consumption but which has other domestic uses.”

Rationale

Currently, in Australia a small amount of lead is used in some copper alloy plumbing products that are in contact with drinking water. Lead is added to copper alloy products to make them softer and more malleable. The exact lead content of copper alloy products varies by component, although some products can contain up to 6% lead as a proportion of the raw material. This results in a risk of lead leaching into the drinking water supply at higher levels than permitted by Australian and international standards, with potential health consequences when drinking water is consumed. Lead has long been recognised as a cumulative toxicant and there is no blood lead level which is considered safe.

Evidence suggests that copper alloy products that are in perpetual contact with water are the most likely source of lead contamination in drinking water. Research has shown that the primary source of lead leaching in drinking water is caused by the long-term release of lead through the dezincification process. There is also evidence that there may be the short-term release of lead through the incorrect rinsing of newly manufactured products.

While lead is contained in plumbing products other than copper alloy products and materials, the dezincification process is an important factor in lead leaching. In the absence of this dezincification process, there is no evidence to indicate that lead leaching occurs from other new products and materials.

On this basis, the ABCB agreed to limit the scope of the requirement to only plumbing products containing copper alloy in contact with drinking water.

The new Australian requirements are based on that of the United States and Canada which require a weighted average of 0.25% lead calculated across the wetted surfaces area of plumbing products in contact with drinking water. The standard was set at 0.25% weighted average in recognition that it is not possible to source 100% lead-free raw material. This ensures parity with the international market for lead free copper alloy products.

Products included in the scope of the lead free requirements

All plumbing products containing copper alloy that are in contact with drinking water must meet the 0.25% lead requirement.

In determining the application of the lead free requirements, the following aspects were considered for each product to determine the applicability of lead free requirements:

1. Alignment with international practice

To ensure that Australia does not include more stringent requirements than the countries which the proposed changes seek to align with, e.g. United States and Canada - this consideration is important to prevent any barriers to trade.

2. Health benefits

In considering products where the objective health benefits are likely to be derived from the use of lead free plumbing products, the types of copper alloy products in contact with drinking water which contain lead and must meet the lead free requirements include: fittings, valves, taps, mixers, water heaters, water dispensers (boiling and cooling units), and water meters.

In addition, copper alloy products that are not in perpetual contact with drinking water, but are intended to be used for drinking water must meet the 0.25% lead requirement.

Products excluded from the scope of the lead free requirements

In considering the health benefits analysed by the Regulation Impact Statement (RIS), a number of products and applications were excluded. These primarily related to products in water services not used for human consumption.

Plumbing products containing copper alloy that are not intended to be used for drinking water and/or human consumption are exempt from the 0.25% lead requirement. These exempt services and products include:

- Residential fire sprinkler systems;
- Fire-fighting equipment;
- Irrigation;
- Appliances, including washing machines and dishwashers;
- Commercial boilers (associated with HVAC systems);
- Emergency deluge showers, eyewash and eye-face wash equipment; and
- Recycled water systems (such as residential dual pipe reuse systems or dual reticulation systems).

In addition, the RIS excluded some products, such as shower heads, as the health objectives of the lead free requirements would not be achieved because:

- they are isolated from the water supply when not in use;
- they do not hold water when not in use; and
- the water dispensed is not intended to be consumed.

Further information

The status of products with regard to the lead free requirements is provided in the WaterMark Schedule of Products.

Further information about the NCC 2022 lead free requirements can be found in the [Final Decision RIS](#) which is located on the [ABCB website](#).

WaterMark Schedule of Products

ATTACHMENT 3

Appliances

Product type	Product scope/application	Specification	Year	Lead Free Applies
Bedpan washer/sterilizer	Health Care.	WMTS-104 Appliances (miscellaneous)	2018	No
Clothes washing machine	Commercial.	WMTS-101 Appliances (low hazard rating)	2021	No
Commercial chilled beverage and ice dispenser	Chilled beverage & ice dispensing machines used primarily for commercial use to dispense ice, water and soda type beverages.	WMTS-105 Appliances – Beverage dispensers and icemakers	2016	Yes
Commercial ice maker	Ice used primarily for human consumption, food storage or food preparation.	WMTS-105 Appliances – Beverage dispensers and icemakers	2016	Yes
Dish washing machine	Commercial.	WMTS-101 Appliances (low hazard rating)	2021	No
Pot washing machine	Commercial.	WMTS-101 Appliances (low hazard rating)	2021	No
Disposable nappy disposal unit	Health care.	WMTS-104 Appliances (miscellaneous)	2018	No
Drinking fountains and bottle fillers	Cold or chilled water dispensing apparatus.	WMTS-105 Appliances – Beverage dispensers and icemakers	2016	Yes
Food waste disposal units	Domestic and commercial.	WMTS-028 Food waste disposal unit	2018	No
Fruit/vegetable peeler	Commercial.	WMTS-101 Appliances (low hazard rating)	2021	No
Glass washing machine	Commercial.	WMTS-101 Appliances (low hazard rating)	2021	No
Placenta/surgical waste disposal unit	Health care.	WMTS-104 Appliances (miscellaneous)	2018	No
Sanitary napkin disposal unit	Health care.	WMTS-104 Appliances (miscellaneous)	2018	No
Therapeutic Bath	Health care.	WMTS-525 Appliances - Therapeutic baths	2018	No

WaterMark Schedule of Products

Product type	Product scope/application	Specification	Year	Lead Free Applies
Water filters and water treatment appliances	Point of use (POU) and point of entry (POE) appliances designed for the reduction of specific groups of containments.	AS 3497 Drinking water treatment systems – Design and performance requirements	2021	Yes
	Storage tanks, Deionizing tanks, Strainers, Water sanitizers, Water treatment units, (upstream of appliances) and UV (for non-drinking water purposes, i.e., bathing).	WMTS-103 Water treatment systems (other than those specified in AS 3497)	2016	Yes
Chemical dispensers	Portable (i.e. hand held) dispensing units, including an integral backflow prevention device, for spraying of fertilizers, insecticides, detergents, degreasers or similar contaminable liquids to the atmosphere.	WMTS-033 Spraying apparatus	2016	No
	Non-portable dispensing units, or portable dispensing units (i.e. hand held) with an end of line backflow prevention device, not intended to directly supply drinking water, considered a low risk of back siphonage, connected to the water service and/or sanitary plumbing/drainage system.	WMTS-101 Appliances (PCA hazard rating)	2021	No
Steamer	Steamers not intended to directly supply drinking water, considered a low risk of back siphonage, connected to the water service and/or sanitary plumbing/drainage system.	WMTS-101 Appliances (low hazard rating)	2021	No
Steam generator	Steam generators for the warming of a steam room to a bathing temperature. This may include a sauna.	WMTS-101 Appliances (low hazard rating)	2021	No
Humidifier	Humidifiers not intended to directly supply drinking water, considered a low risk of back siphonage, connected to the water service and/or sanitary plumbing/drainage system.	WMTS-101 Appliances (low hazard rating)	2021	No
Sterilizer	Sterilizers not intended to directly supply drinking water, considered a low risk of back siphonage, connected to the water service and/or sanitary plumbing/drainage system.	WMTS-104 Appliances (miscellaneous)	2018	No

WaterMark Schedule of Products

Product type	Product scope/application	Specification	Year	Lead Free Applies
Bedpan macerator	Bed pan macerator appliances are designed to discharge disposable bedpan liners and bottles together with their waste content to the sanitary drainage system.	WMTS-104 Appliances (miscellaneous)	2018	No
Food waste digester	Appliance to break down biodegradable material using microorganisms in the presence of oxygen and to output as grey water.	WMTS-104 Appliances (miscellaneous)	2018	No
Water doser mixer	Appliance to dose a specific volume and temperature of water in commercial bakery applications.	WMTS-101 Appliances (low hazard rating)	2021	No

WaterMark Schedule of Products

Sanitary fixtures

Product type	Product scope/application	Specification	Year	Lead Free Applies
Bidet	Bidets intended for use with douche spray below the rim of the bowl. Bidets are not suitable for direct connection to the drinking water supply.	AS 1172.3 - Sanitary plumbing products - Personal hygiene fixtures and appliances - Bidettes and bidets	2019	No
Bidet douche seats	Douche seats using water dispensed by a douche spray for the purposes of personal hygiene that are self-contained for installation on water closet (WC) pans.	WMTS-051 Bidet douche seats	2016	No
Bidette	Bidettes that can be fitted with over-the-rim taps. Bidettes with the prescribed minimum air gap measured after tapware has been fitted may be directly connected to the drinking water supply.	AS 1172.3 – Sanitary plumbing products – Personal hygiene fixtures and appliances - Bidettes and bidets	2019	No
Cistern	Flushing cisterns that may either be single-flush or dual-flush which are intended for use with urinals and water closet pans of all types.	AS 1172.2 Water closets (WCs) - Flushing devices and cistern inlet and outlet valves Note: See NoDs 2016/1.1 and NoD 2017/4.3	2014	No
Cistern outlet	Intended as a replacement for, or retrofitted to, flushing cisterns of the types specified in this Standard. The operating function may be of the single- or dual-flush type.	AS 1172.2 Water closets (WCs) - Flushing devices and cistern inlet and outlet valves Note: See NoD 2017/4.3	2014	No
Cistern inlet	Cistern inlet valves intended for use in gravity-fed applications shall operate at a minimum supply pressure of 5 kPa , whilst meeting minimum flow rate requirements as specified in this Standard.	AS 1172.2 Water closets (WCs) - Flushing devices and cistern inlet and outlet valves Note: See NoD 2017/4.3	2014	No
Urinal	Waterless wall-hung urinals manufactured from vitreous china, plastic or stainless steel.	WMTS-459 Waterless urinals - Wall-hung	2018	No
	Slab, stall, trough and wall hung urinals made from vitreous china, and stainless steel	AS/NZS 3982 Urinals	1996	No

WaterMark Schedule of Products

Product type	Product scope/application	Specification	Year	Lead Free Applies
	Urinals manufactured from vitreous china, plastics, composite or stainless steel, with an integral self-sealing device that can either be waterless or flushed with a limited volume of water.	WMTS-469 Waterless or limited flush urinals - With an integral sealing device	2018	No
	Vacuum urinals intended for use with vacuum drainage systems.	SA TS 100 Vacuum WC pans, vacuum urinals and interface valves intended for use with vacuum drainage systems and designs	2018	No
Water closet	Pans intended for use with flushing cisterns and other flushing devices, including mains and break tank supplied flushing valves.	AS 1172.1 Water closets (WCs) – Pans Note: See NoD 2017/4.3	2014	No
	Electronically operated water closet (WC) pan and flushing device with included macerating and lifting plant.	WMTS-516 Water closet (WC) - Pan and flushing device with included macerating and lifting plant	2014	No
	Vacuum WC pans intended for use with vacuum drainage systems.	SA TS 100 Vacuum WC pans, vacuum urinals and interface valves intended for use with vacuum drainage systems and designs	2018	No
	Water closet suite with integral odour control device.	WMTS-425 Water closet (WC) suite with integral odour control device (OCD)	2016	No
Flushing sink	Flushing rim with DN 100 spigot	WMTS-526 Flushing sink	2018	No

WaterMark Schedule of Products

Tapware

Product type	Product scope/application	Specification	Year	Lead Free Applies
Tapware	<p>Metallic taps, plastic taps, mixing taps, sensor (non-touch) taps, lever taps, timed flow taps, mixing taps mechanical (non-thermostatic), and tapsets in a range of nominal sizes from DN 6 to DN 50, generally for continuous operating temperatures not exceeding 80°C. Including the following tap types: bib, bidette, stop, mixing (non-thermostatic), non-touch, washing machine stop, hose, diaphragm, pillar, laboratory, hand spray, drinking fountain, self-closing, ferrule and tapware with an integral pop up-waste.</p>	AS 3718 Water supply - Tapware	2021	Yes
Tap accessories	<p>Metallic taps, plastic taps, mixing taps, sensor (non-touch) taps, lever taps, timed flow taps, mixing taps mechanical (non-thermostatic), and tapsets in a range of nominal sizes from DN 6 to DN 50, generally for continuous operating temperatures not exceeding 80°C. Including the following tap accessories: Breaching set, jumper valve assembly, o-ring, outlet, removable tap seat, replacement seat – copper alloy, replacement seat – stainless steel, spindle, tap body, tap head, tap head assembly and tapset breaching piece.</p>	AS 3718 Water supply - Tap ware	2021	Yes
Shower	<p>A showerhead through which water is intended to pass to form a spray for bathing purposes, which may include a fixed or pivot arm, a flexible hose (with or without a flow controller), tap top assemblies, or other components.</p>	AS/NZS 3662 Performance of showers for bathing	2005	No
	<p>Metallic taps, plastic taps, mixing taps, sensor (non-touch) taps, lever taps, timed flow taps, mixing taps mechanical (non-thermostatic), hand spray and tapsets in a range of nominal sizes from DN 6 to DN 50, generally for continuous operating temperatures not exceeding 80°C.</p>	AS 3718 Water Supply – Tapware	2021	Yes

WaterMark Schedule of Products

Product type	Product scope/application	Specification	Year	Lead Free Applies
Hand wash station	Hand washing stations which automatically mix water, soap and air for hygienic washing.	WMTS-527 Automatic hand washing stations	2019	No
Thermostatically controlled taps	Thermostatic mixing taps used for ablutionary purposes for use with heated water: a) at a supply temperature not exceeding 90°C; b) with working pressures not exceeding 1400 kPa; and c) of nominal sizes not larger than DN 20.	AS 4032.4 Water supply - Valves for the control of heated water supply temperatures -Thermostatically controlled taps for the control of heated water supply temperatures	2014	Yes
Flexible hose assemblies	Flexible hose assemblies for use with both heated water at 70°C and 1000 kPa maximum and cold-water supplies at 1200 kPa maximum used for applications above ground, accessible and not submerged. Nominal sizes range up to DN 20, a maximum length of 2 m and with a working pressure not exceeding 1400 kPa.	AS/NZS 3499 Water supply - Flexible hose assemblies	2006	Yes

WaterMark Schedule of Products

Systems

Product type	Product scope/application	Specification	Year	Lead Free Applies
<i>Notes:</i>				
1 Where the system includes integral plumbing components, accessories or fittings that require certification as identified in the Plumbing Code of Australia, they shall comply with the applicable requirements of the specification for that product, as identified in this schedule.				
2 Where the system includes components or accessories they may be subject to other regulatory requirements e.g. electrical safety, electromagnetic compatibility (EMC), gas safety and energy and water efficiency.				
Purpose-built bathroom module	Prefabricated modules that include integral components, accessories and fittings, designed for direct connection to the water supply and sanitary drainage system.	WMTS-050 Prefabricated modules Note: See NoD 2016/4.0	2018	Refer to component standard
Bathroom appliance	Bathroom appliances which integrate the following fixtures and fittings for concealment when not in use: a) Water closet pans and flushing devices; b) Basin; and c) Pipework and fittings to enable connectivity to water services and sanitary plumbing and drainage systems.	WMTS-524 Bathroom appliances	2018	Refer to component standard
Modular heated water system	Modular heated water systems for the generation of heated water which may incorporate hot, cold and tempered water systems, water heaters and heated and cold water storage tanks.	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Sanitary waste flushing and dosing system (SWFDS)	Sanitary waste flushing and dosing systems – Water closet 3/2 L capacity or proven equivalent with included sewer dosing unit	WMTS-504 Sanitary waste flushing dosing system (SWFDS) - Water Closet (WC) 3/2 L Capacity or proven equivalent with included sewer dosing unit (SDU)	2013	No
Wash down diversion system	Wash down diversion systems for connection to suitable drainage	WMTS-046 Diversion systems – Wash down and first flush	2016	No

WaterMark Schedule of Products

Devices and Controllers

Product type	Product scope/application	Specification	Year	Lead Free Applies
Meter	Requirements for water meters used to meter the actual volume of cold and heated drinking and non-drinking water flowing through a fully charged closed conduit. Note: Only meters installed within the scope of the PCA require certification.	AS 3565.1 Meters for cold and heated drinking and non-drinking water supplies - Technical requirements	2010	Yes
Flow sensor	Devices that measure flow or flow and temperature within a water supply system (drinking or non-drinking)	AS 3688 Water supply and gas systems - metallic fittings and end-connectors	2016	Yes
Flow control valve	Pressure-compensating flow control devices that deliver a fixed and constant flow rate, throughout a given pressure differential range.	WMTS-037.1 Flow controllers – For controlling flows in cold or heated water systems	2016	Yes
	Flow controllers with or without bodies, for use in heated or cold water plumbing systems that may be required to be rated in accordance with AS/NZS 6400.	AS 5200.037.2 Plumbing and drainage products - Flow controllers for use with heated or cold water systems	2008	Yes
Grey water diversion device	Grey water diversion devices employing gravity or pumped discharge, designed to be used in the sanitary drainage system to divert grey water. Note: Products that require connection to a water service are outside the scope.	WMTS-460 Grey water diversion device	2016	No
Rainwater tank connection	Low pressure automated changeover devices of nominal sizes DN15 and DN20 and nominal operating pressure up to and including 400 kPa.	WMTS-466 Rainwater tank connection devices	2016	Yes
	Automated valves of nominal sizes DN 20/25 and nominal working pressure PN 16.	WMTS-467 Rainwater tank connection valve	2016	Yes
	Manual or automated changeover devices of nominal sizes DN 20/25 and maximum allowable operating pressures up to and including 1600 kPa.	WMTS-477 Rainwater/mains supply changeover devices	2016	Yes
Sewer dosing unit	Inline sewer dosing units (SDUs) intended to temporarily store and deliver measured volumes of waste water to the sewer line.	WMTS-499 Inline sewer dosing unit (SDU)	2016	No
Overflow relief waste outlet	Plastic bodied DN 100 overflow relief waste outlet with integral cap-stopper.	WMTS-498 Plastic Fittings - Overflow relief waste outlet (ORWO) with integral cap-stopper	2014	No

WaterMark Schedule of Products

Product type	Product scope/application	Specification	Year	Lead Free Applies
Anti infiltration device	Moulded PVC-U anti-infiltration overflow-relief devices, of nominal size DN 100, that are intended, upon installation in an overflow relief gully (ORG).	WMTS-501 Anti-infiltration overflow-relief device	2016	No
Leak protection valve	Metallic bodied safety shut valves for use in hot and cold water applications where the maximum operating pressure does not exceed 1400 kPa and the maximum temperature does not exceed 85°C.	WMTS-479 Flood stop safety valve	2018	Yes
Pressure compensating tank	Pressure-compensating tanks, for use within cold and heated water supply systems incorporating water supply pumps or systems with fluctuating pressures.	WMTS-485 Pressure compensating tank	2018	Yes
Prefabricated cold water storage tank	Prefabricated cold water storage tanks constructed from copper, galvanized steel, stainless steel, plastics and dezincification-resistant copper alloy up to 50,000 L capacity installed within a cold water system. Note: This excludes tanks installed outside of the scope of the PCA.	WMTS-026 Cold water storage tanks	2016	Yes
Rotationally moulded cold water storage tank	Rotationally moulded storage tanks that are manufactured in one-piece, single or multi-layer, seamless construction. The tanks are for non-buried, partially-buried and buried installation and capable of containing water or liquids used in food and beverage manufacture.	AS/NZS 4766 Rotationally moulded buried, partially buried and non-buried storage tanks for water and chemicals	2020	Refer to component standard
Water Hammer arrestor	Metal-bodied water hammer arresters of DN 15 to DN 50 sizes for heated (up to 80°C) and cold-water applications and supply pressures up to 1.2 MPa.	AS 5200.007 Metal-bodied water hammer arresters	2008	Yes
Water meters with integral shut off valve	Inline water meter with an integral shut off valve for installation into a existing service valve. The meter may be installed in cold or hot water service pipelines. A water meter that complies with this standard is intended for installation downstream of the network utility operators property water meter.	WMTS-530 Water meters with integral shut off valve	2020	Yes

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Heated Water Products

Product type	Product scope/application	Specification	Year	Lead Free Applies
Instantaneous (continuous flow) water heater	Electric resistance.	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
	Gas, such as Liquefied petroleum gas (LPG) and Natural gas NG).	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Storage water heater	Electric resistance (direct and indirect).	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
	Gas, such as Liquefied petroleum gas (LPG) and Natural gas NG).	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Solar water heating system	N/A	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Heat exchange water heaters	N/A	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Calorifier	N/A	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Heated water and pre-heat storage	N/A	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Boiling water dispenser	Boiling Water Dispensers and appliances dispensing hot water at near boiling temperature. Noting that integral components are to be assessed to their applicable specification.	AS 3498 Water heaters and hot-water storage tanks	2020	Yes
Hot water manual or sensor activated pumping system	Demand-activated heated water pumping system for use in a dedicated heated water recirculation line.	WMTS-464 Hot water manual or sensor-activated pumping systems	2016	Yes
Heated water circulating device	Plastics-bodied heated water circulating devices for use in a dedicated heated water recirculation line.	WMTS-472 Heated water system recirculation device	2016	Yes

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Leak protection device	Devices specifically designed to detect leaks and isolate the water supply to heated water systems utilised in association with a safe tray	WMTS-476 Heated Water Systems – Leak protection device	2016	Yes
Thermal switching valve	<p>Metallic-bodied thermal switching valves intended to automatically switch the flow of water to one of two outlets, depending upon the temperature of the inlet water. Thermal switching valves are required to operate at—</p> <p>a) continuous operating temperature not exceeding 85°C and 99°C under emergency conditions; and</p> <p>b) continuous working pressure not exceeding 1400 kPa.</p>	WMTS-481 Thermal switching valves	2016	Yes
Heated water system cold water recovery device	Water recovery device installed in the heated and cold water supply systems. The device transfers water as the first flush in a heated water line to be stored and used back in the cold water supply system or diverted to be used for other purposes.	WMTS-475 Heated Water Systems – Cold water recovery device	2016	Yes
Plate heat exchangers	Plate heat exchangers intended to be used in heated water supply systems for the indirect heating/cooling of water in a plumbing system. These products are components of a water heating/cooling system and designed in various configurations including number of plates, plate design and size in order to suit the installation. They may be single or double wall construction and function with a heat exchange fluid in the primary circuit and water in the secondary circuit.	WMTS-528 Plate heat exchangers – Indirect heating/cooling of water in a plumbing system	2021	Yes

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Valves - Isolation

Product type	Product scope/application	Specification	Year	Lead Free Applies
Ball valve	Metal and plastic bodied ball valves for installation between the reticulation water main and the property water meter in nominal sizes DN 15, 20, 25, 32, 40 and 50 at allowable operating pressures of PN 16 and 25 and continuous operating temperatures not exceeding 60°C. Products include service connection ball valves, service connection termination ball valves and the right angle meter assembly ball valves.	AS 4796 Water supply - Metal-bodied and plastic (bodied ball valves for property service connection)	2016	Yes
	Miscellaneous type metallic and plastic bodied in-line valves for use in water supply systems.	AS 3718 Water supply - Tap ware	2021	Yes
	DN 6 to 100 one-piece and two piece metal-bodied in-line ball valves intended for non-buried installations, including 2 way and 3 way valves.	AS 5830.1 In-line ball valves for use in plumbing water supply systems – metal bodied	2012	Yes
Butterfly valve	PN 10 and 16 manually operated, resilient-seated, seal-on-body wafer and tapped lugged butterfly valves in the size range of DN 50 to 600 with a maximum operating temperature of 40°C.	AS 4795.1 Butterfly valves for waterworks purposes - Wafer and lugged	2011	Yes
	PN 10, 16, 21 and 35 manually operated resilient-seated double-flanged butterfly valves with a maximum operating temperature of 40°C. Including manual actuators, gearboxes and standard spindle caps of the following nominal sizes: a) Seal on disc DN 300 to DN 2000. b) Seal in body DN 80 to DN 2000. c) Seal on body DN 80 to DN 2000.	AS 4795.2 Butterfly valves for waterworks purposes Double flanged	2011	Yes
Heated water isolating valves	Isolating valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily used in heated water systems – Control valves	2005	Yes
Gate valve	Ductile iron PN 16 and 35 solid gate metal-bodied metal-seated gate valves with a maximum operating temperature of 40°C.	AS/NZS 2638.1 Gate valves for waterworks purposes - Metal seated	2011	Yes
	Ductile iron – PN 16 and 25 metal-bodied resilient-seated gate valves with a maximum operating temperature of 40°C.	AS/NZS 2638.2 Gate valves for waterworks purposes – Resilient seated	2011	Yes

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Product type	Product scope/application	Specification	Year	Lead Free Applies
	Copper alloy - Metallic gate valves of nominal sizes DN 8 to 100 for use in heated and cold water applications where the operating temperature does not exceed 99°C.	AS 1628 Water supply - Metallic gate, globe and non-return valves	1999	Yes
Globe valve	Metallic globe valves of nominal sizes DN 8 to 100 for use in heated and cold water applications where the operating temperature does not exceed 99°C.	AS 1628 Water supply - Metallic gate, globe and non-return valves	1999	Yes
Hydraulically operated automatic control valve	Metallic-bodied PN 16, 21 and 35 hydraulically operated, diaphragm or piston-actuated, globe or piston-style, automatic control valves of sizes DN 40 to 900 (inclusive) with a maximum operating temperature of 40°C.	AS 5081 Hydraulically operated automatic control valves for waterworks purposes	2008	Yes
Solenoid valve	Metallic and plastics-bodied valves that are actuated by way of an electric solenoid valve and intended to be installed in the water service.	WMTS-030 Solenoid valves	2016	Yes

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Valves – Backflow prevention

Product type	Product scope/application	Specification	Year	Lead Free Applies
Combination pressure limiting and dual check valve (CV)	A combination pressure limiting with dual check valve classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements Note: See NoD 2017/4.3	1998 or 2010	Yes
	Inlet pressure control valves primarily for use in a heated water service.	AS 1357.2 Valves primarily for use in heated water systems – control valves Note: See NoD 2017/4.3	2005	Yes
Non-return valve	Non-return valves that may be a separate valve or part of a combination valve that is to be fitted to the inlet of a water heater.	AS 1357.1 Valves primarily for use in heated water systems Protection valves	2019	Yes
Single check valve	Metallic non-return valves of nominal sizes DN 8 to 100 for use in heated and cold water applications where the operating temperature does not exceed 99°C.	AS 1628 Water supply - Metallic gate, globe and non-return valves	1999	Yes
	A single check valve (testable) classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Vented double check valve	Vented double check valve classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices (Materials, design and performance requirements)	2010	Yes
Vacuum breaker check valve (VBCV)	Vacuum breaker check valve classified as PN 10, 12 or 16	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Reduced pressure zone device (RPZD)	A reduced pressure zone device classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Reduced pressure detector assembly (RPDA)	A reduced pressure detector assembly classified as PN 10, 12 or 16	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Pressure type vacuum breaker (PVB)	A pressure type vacuum breaker classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Hose connector vacuum breaker (HCVB)	A hose connection vacuum breaker classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Double check detector assembly (DCDA)	A double check detector assembly classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Dual check valve (Dual CV)	A dual check valve classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Double check valve (DCV)	A double check valve classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Dual check valve with intermediate vent (Du CV)	A dual check valve with intermediate vent classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Dual check valve with atmospheric port (DCAP)	A dual check valve with atmospheric port classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Beverage dispenser dual check valve with atmospheric port (BDDC)	A hose connection vacuum breaker classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Atmospheric vacuum breaker (AVB)	An atmospheric vacuum breaker classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Anti-spill pressure vacuum breaker (APVB)	A spill-resistant pressure vacuum breaker classified as PN 10, 12 or 16.	AS/NZS 2845.1 Water supply - Backflow prevention devices - Materials, design and performance requirements	2010	Yes
Non-return reflux valve	Non-return reflux valves of nominal sizes DN 8 to 100 for use in heated and cold water applications where the operating temperature does not exceed 99°C.	AS 1628 Water supply - Metallic gate, globe and non-return valves	1999	Yes
	Metal-bodied flanged non-return valves (swing check and tilting disc types) for use in water supply and pressure sewerage systems (swing check only) suitable for operation in both horizontal and vertical positions. Includes Class 16 and 35 valves in the size range DN 80 to 750, inclusive, with the maximum temperature of the medium flowing through the valve not exceeding 60°C. Products include: Non-return, free-acting valve, Non-return valve with extended hinge pin suitable for position indication, micro-switches, counterweight lever arm and counterweight. Non-return valve fitted with position indicator and/or counterweight lever arm and counterweight. Counterweight lever and counterweight for retrofit to valve with extended hinge pins. Non-return valve with resilient seated disc.	AS 4794 Non-return valves - Swing check and tilting disc	2001	Yes
	PVC-U (Polyvinyl Chloride Unplasticised) and ABS (Acrylonitrile Butadiene Styrene) plastics bodied reflux valves of nominal sizes DN 100 to 600 intended for waste water.	WMTS-006 Reflux Valves - Sewerage	2014	No

WaterMark Schedule of Products

Valves – General

Product type	Product scope/application	Specification	Year	Lead Free Applies
Expansion control valve	Expansion control valves primarily intended for use in warm and heated water systems operating at a: a) Continuous operating temperatures not exceeding 85°C and 99°C in emergency conditions; and b) Continuous working pressure not exceeding 1400 kPa.	AS 1357.1 Valves primarily for use in heated water systems Protection valves Note: See NoD 2017/4.3	2019	Yes
Trap priming valve	Metallic-bodied valves that are connected to the water supply system and primarily utilised for the priming of sanitary traps.	WMTS-420 Trap-priming valves	2016	No
Flushing valve	Flushing valves and devices intended for use with urinals and water closet pans of all types, including: a) flushing valves for mains supply incorporating air gap pipe disconnections (manual or sensor operated; and b) flushing valves for use with break tank supply.	AS 1172.2 Water closets (WCs) Flushing devices and cistern inlet and outlet valves Note: See NoD 2017/4.3	2014	No
Float control valve	Active float control valves for use in water supply systems where the normal working temperature does not exceed 95°C and the continuous working pressure extends up to a maximum of 1.4 MPa for a range of nominal sizes from DN 6 to 80. Note: Water closet cistern flushing valves are outside of the scope.	AS 1910 Water supply - Float control valves for use in hot and cold water	2004	No
In-line valve	Metallic and non-metallic in-line valves for use in water supply systems including balancing valves	WMTS-012 In-line valves for use in plumbing water supply systems – Miscellaneous types metallic and non-metallic	2018	Yes
Pressure ratio valve	Inlet pressure control valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily for use in heated water systems - Control valves	2005	Yes

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Product type	Product scope/application	Specification	Year	Lead Free Applies
	Pressure ratio valves greater than DN 50 that are intended for use in cold water systems at continuous working pressures not exceeding 1400 kPa.	WMTS-052 Metallic-bodied inlet pressure control valves greater than DN 50	2016	Yes
Inlet pressure control valve	Inlet pressure control valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily for use in heated water systems - Control valves	2005	Yes
Pressure-reducing valve	Inlet pressure control valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily for use in heated water systems - Control valves	2005	Yes
	Pressure-reducing valves greater than DN 50 that are primarily intended for use in cold water systems at continuous working pressures not exceeding 1400 kPa.	WMTS-052 Metallic-bodied inlet pressure control valves greater than DN 50	2016	Yes
Pressure-limiting valve	Inlet pressure control valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily for use in heated water systems - Control valves	2005	Yes
	Pressure-reducing valves greater than DN 50 that are primarily intended for use in cold water systems at continuous working pressures not exceeding 1400 kPa.	WMTS-052 Metallic-bodied inlet pressure control valves greater than DN 50	2016	
Pressure / temperature relief valve	Temperature and pressure relief valves within the range of DN 15 to 50.	AS 1357.1 Valves primarily for use in heated water systems Protection valves Note: See NoD 2017/4.3	2019	Yes
Recirculation valve	Valves used in heated water recirculation systems.	WMTS-453 Heated water systems – Thermostatic circulation valve	2016	Yes
	Valves that are utilised to control the temperature in heated water recirculation systems through balancing of the flow.	WMTS-468 Hot water systems – Recirculation valves	2019	Yes
Primary temperature control valve	Primary temperature control valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily used in heated water systems – Control valves	2005	Yes

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Tempering valve	Tempering valves of nominal sizes not larger than DN 32 and end-of-line temperature-actuated devices of nominal size not larger than DN 25, for use with heated water: a) at continuous operating temperature not exceeding 85°C and 99°C under emergency conditions; and b) a continuous working pressure not exceeding 1400 kPa.	AS 4032.2 Water supply - Valves for the control of hot water supply temperatures Tempering valves and end-of-line temperature-actuated devices. Note: See NoD 2017/4.3	2005	Yes
Thermostatic mixing valve	Metallic-bodied thermostatic mixing valves of nominal sizes not larger than DN 50 for use with heated water exceeding 90°C; and heated and cold water working pressures not exceeding 1400 kPa.	AS 4032.1 Water supply - Valves for the control of heated water supply temperatures Thermostatic mixing valves Note: See NoD 2017/4.3	2005	Yes
Thermosiphon arrestor valve	Thermosiphon arrestor valves primarily intended for use in a heated water service.	AS 1357.2 Valves primarily for use in heated water systems - Control valves	2005	Yes
Vacuum relief valve	Vacuum relief valves not intended to prevent backflow or back-siphonage.	AS 1357.2 Valves primarily for use in heated water systems - Control valves	2005	Yes
Vacuum interface valve	Vacuum interface valves intended for use with vacuum drainage systems.	SA TS 100 Vacuum WC pans, vacuum urinals and interface valves intended for use with vacuum drainage systems and designs	2018	No
Pressure attenuator vent valve	Pressure attenuator devices for use in sanitary plumbing and drainage systems intended for operation within the temperature range of 0°C to 40°C	WMTS-463 Pressure attenuator	2015	No
Air admittance (induct/one way) vent valve	Air admittance valves including those that are integral to a fixture trap where the air temperature is between 0°C and 60°C.	AS/NZS 4936 Air admittance valves (AAV's)	2002	No

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Fire service

Product	Scope/Application	Specification	Year	Lead Free Applies
Fire sprinkler heads	Fire sprinkler heads for domestic applications incorporated in a domestic water supply in buildings.	WMTS-486 Fire sprinkler heads for domestic applications	2016	No
Spring hydrants	Flanged ductile cast iron spring hydrant valves with resilient seat for waterworks purposes. Class 16 valves of nominal size DN 80 with either DN 80 or DN 100 flange with a maximum working temperature of 60°C.	AS 3952 Water supply - Spring hydrant valve for waterworks purposes	2002	No

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Joining products

Product type	Product scope/application	Specification	Year	Lead Free Applies
Brazing alloy	Joining material utilized in the installation of water supply plumbing systems.	WMTS-014 Joining materials	2016	No
Solder	Joining material utilized in the installation of water supply plumbing systems.	WMTS-014 Joining materials	2016	No
Elastomeric seals and gaskets	For use in water, sewerage and drainage systems.	AS 1646 Elastomeric seals for waterworks purposes	2007	No
	Unreinforced elastomeric and reinforced and unreinforced compressed non-asbestos fibre flange gaskets and elastomeric O-rings suitable for jointing flanges and other flange standards, for— a) cold potable water supply (up to 40°C); and b) drainage and sewerage systems (continuous flow up to 45°C and intermittent flow up to 95°C).	WSA 109 Flange gaskets and o-rings	2011	No
Lubricant	Joining material utilized in the installation of water supply plumbing systems.	WMTS-014 Joining materials	2016	No
Priming fluid	Solvent cements and priming fluids used in the jointing of— a) tapered/interference and parallel/no or low interference fit polyvinyl chloride (PVC-U and PVC-M) pressure and non-pressure piping systems; b) acrylonitrile butadiene styrene (ABS) pressure and non-pressure piping systems; and c) ABS and acrylonitrile styrene acrylate (ASA) fittings for non-pressure drainage applications with PVC-U pipes.	AS/NZS 3879 Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings	2011	No
Solvent cement for polyvinyl chloride (PVC-U and PVC-M)	Solvent cements and priming fluids used in the jointing of tapered/interference and parallel/no or low interference fit polyvinyl chloride (PVC-U and PVC-M) pressure and non-pressure piping systems.	AS/NZS 3879 Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings	2011	No
Solvent cement for acrylonitrile butadiene styrene (ABS) and acrylonitrile styrene acrylate (ASA)	Solvent cements and priming fluids used in the jointing of— a) acrylonitrile butadiene styrene (ABS) pressure and non-pressure piping systems; and b) ABS and acrylonitrile styrene acrylate (ASA) fittings for non-pressure drainage applications with PVC-U pipes.	AS/NZS 3879 Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings	2011	No
Sealant (general)	Joining material utilized in the installation of water supply plumbing systems.	WMTS-014 Joining materials	2016	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Thread sealant	Jointing material utilized in the installation of water supply plumbing systems.	WMTS-014 Jointing materials	2016	No
Roll-grooved fittings	<p>Metallic body pipe fittings and connectors for use with copper tube, stainless steel pipe and tube and adaptor fittings for connection to other pipe materials in water supplies with a maximum operating pressure does not exceed 2,100 kPa.</p> <p>Note: Product testing specific to gas products are not required.</p>	<p>AS 3688 Water supply and gas systems – metallic fittings and end connectors</p> <p>Note: See NoD 2017/4.3</p>	2016	Yes
Transitional fittings	Plastic-bodied transition couplings intended to join PE, PB, PEX, PP, PVC, ABS, copper, ductile iron, cast iron, lead, stainless steel and galvanized steel pipes for cold water applications (with a maximum operating pressure of 1250 kPa at 20°C) to each other and to themselves (i.e., PE to copper), for pipe/tube sizes up to 110 mm outside diameter.	AS 5200.458 Plumbing and drainage products - Universal plastic-bodied transition couplings	2008	Yes

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Pipes – Metallic

Product type	Product scope/application	Specification	Year	Lead Free Applies
Copper alloy pipe	Round seamless copper alloy tubes intended for use in pressure and non-pressure plumbing and drainage applications as follows: <u>a)</u> Brass tubes intended primarily for sanitary plumbing services; and <u>b)</u> Copper nickel tubes intended primarily for water services.	AS 3795 Copper alloy tubes for plumbing and drainage applications	1996	Yes
Copper pipe	Round seamless copper tubes intended for use in pressure and non-pressure plumbing and drainage applications. Note: Product testing specific to gas products are not required.	AS 1432 Copper tubes for plumbing, gasfitting and drainage applications	2004	No
Ductile Iron pipe	Ductile iron pressure pipes centrifugally cast in moulds, and ductile iron fittings of nominal sizes up to and including DN 750. Pipes intended primarily for conveying water under pressure, but may be used for conveying sewage or other liquids.	AS/NZS 2280 Ductile iron pipes and fittings	2020	No
Stainless steel pipe	Stainless steel pipes and tubes in the range of DN 15 to DN 300 used in hot and cold water supply systems.	AS 5200.053 Stainless steel pipes and tubes for pressure applications Note: See NoD 2017/4.3	2008	No
	Pipes for non-pressure applications in the operating temperature range from - 40 C to 100 C.	AS 3495 Authorization requirements for plumbing products - Stainless steel non-pressure pipes and fittings	1997	No
Stainless steel/nano-antibiotic PP-R pipe	Composite piping system consisting of a stainless steel outer casing bonded to an inner layer of polypropylene (PP-R), which includes a contact layer of nano-antibiotic material for use in cold and heated water supply systems at continuous operating temperatures up to 80°C with short exposures up to 100°C and continuous working pressures not exceeding 1.4 MPa.	WMTS-473 Stainless steel/nano-antibiotic PP-R pipe systems for water supply applications	2016	No
Cast Iron pipe	Cast iron pipeline components used for the construction of discharge systems for buildings and of drains, normally as gravity systems. Nominal sizes are inclusive of DN 40 to 600.	EN 877 Cast iron pipes and fittings	1999	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Grey cast iron pipe	Cast grey iron (flake graphite) non-pressure pipes and fittings up to nominal size DN 300, intended to be used where the internal working pressure is negligible.	AS 1631 Cast grey and ductile iron non-pressure pipes and fittings	1994	No
Aluminium alloy pipe	Aluminium alloy piping for the conveyance of water in sizes ranging from DN 15 to DN 150, with an internal plastics lining for above-ground applications. For use at operating temperatures up to 70°C, operating pressures (inclusive surge) of 1920 kPa and a maximum allowable site test pressure of 2000 kPa.	WMTS-491 Aluminium alloy piping system with plastics lining for plumbing water services applications	2016	No

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Pipes – Plastic

Product type	Product scope/application	Specification	Year	Lead Free Applies
Acrylonitrile butadiene styrene (ABS) pipe	Acrylonitrile butadiene styrene (ABS) compounds (ABS 120, ABS 140, ABS 160 and ABS 180), pipes for the conveyance of liquids under pressure.	AS/NZS 3518 Acrylonitrile butadiene styrene (ABS) compounds, pipes and fittings for pressure applications	2013	No
	Acrylonitrile butadiene styrene (ABS) piping system for the conveyance of water under pressure for use at continuous operating temperatures up to 70°C, allowable operating pressures up to 1600 kPa in sizes ranging from DN 20 to 110 for use with ABS fittings.	WMTS-507 Acrylonitrile Butadiene Styrene (ABS) Piping System with Stainless Steel Lining for Plumbing Water Service Applications	2014	No
Cross-linked polyethylene pipe	Cross-linked polyethylene pipes for the conveyance of fluids under pressure including: water, wastewater and slurries.	AS 2492 Cross-linked polyethylene (PE-X) pipes for pressure applications Note: See NoD 2017/4.3	2007	No
Macro composite pipe	Multilayer piping systems intended to be used for heated and cold water installations inside buildings.	AS 4176.2 Multilayer piping systems for hot and cold water plumbing applications – pipes Note: See NoD 2017/4.3	2010	No
Polybutylene (PB) pipe	Polybutylene pipe of pressure class PN16 up to 28 mm nominal outside diameter for heated and cold water applications. Note: This does not apply to pipes with a wall thickness of less than 1.6 mm.	AS/NZS 2642.2 Polybutylene (PB) plumbing pipe systems Polybutylene (PB) pipe for hot and cold water applications Note: See NoD 2017/4.3	2008	No
Polyethylene (PE) pipe	Polyethylene pipes for the conveyance of fluids under pressure including, but are not restricted to, water, wastewater, slurries.	AS/NZS 4130 Polyethylene (PE) pipes for pressure applications	2018	No
	Solid-wall polyethylene (PE) pipes for soil and waste discharge (low and high temperature) of nominal sizes DN 32 to DN 315 for installation inside buildings Note: Pipework intended to be buried is outside of the scope.	AS/NZS 4401 Plastics piping systems for soil and waste discharge (low and high temperature) inside buildings - Polyethylene (PE) Note: See NoD 2017/4.3	2006	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
	Polyethylene (PE) pipes greater than DN 100 for sewerage and drainage applications, above and below ground, inside and outside of buildings, and intended to be used where the pipeline is operating under gravity flow and the operating pressure is low. It includes plain and structured wall pipes.	AS/NZS 5065 Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications Note: See NoD 2017/4.3	2005	No
Polypropylene (PP) pipe	Polypropylene (PP) piping systems intended to be used for heated and cold water installations within buildings.	ISO 15874-1 Plastic piping systems for hot and cold water installations – Polypropylene (PP) - General.	2013	No
	Polypropylene (PP) for piping systems intended to be used for heated and cold water installations within buildings.	ISO 15874-2 Plastics piping systems for hot and cold water installations – Polypropylene (PP) – Pipes Note: See NoD 2017/4.3	2013	No
	Solid-wall polypropylene (PP) pipes for soil and waste discharge (low and high temperature) inside buildings. Note: Pipework intended to be buried is outside of the scope.	AS/NZS 7671 Plastics piping systems for soil and waste discharge (low and high temperature) inside buildings	2010	No
	Polypropylene (PP) pipes greater than DN 100 for sewerage and drainage applications intended to be used where the pipeline is operating under gravity flow and the operating pressure is low. It includes plain and structured wall pipes.	AS/NZS 5065 Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications Note: See NoD 2017/4.3	2005	No
Polyvinyl chloride (PVC) pipe	PVC pipes for pressure applications.	AS/NZS 1477 PVC pipes and fittings for pressure applications	2017	No
	PVC-U pipes for sewer, drain, waste and vent applications intended to be used where the pipeline is operating under gravity flow and the operating pressure is low, both plain and structured wall pipes.	AS/NZS 1260 PVC-U pipes and fittings for drain, waste and vent applications	2017	No
	Pipes made of oriented unplasticised polyvinyl chloride (PVC-O).	AS/NZS 4441 Oriented PVC (PVC-O) pipes for pressure applications	2017	No
	Pipes of PVC-M for the conveyance of water and wastewater under pressure.	AS/NZS 4765 Modified PVC (PVC-M) pipes for pressure applications	2017	No
Metric polybutylene (PB) pipe	Polybutylene pipe for heated and cold water applications.	AS 5082.1 Polybutylene (PB) plumbing pipe systems - Metric series - Metric polybutylene (PB) pipes for hot and cold water applications	2007	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Glass-filament-reinforced thermosetting plastic (GRP) pipe	Glass-reinforced thermoplastics (GRP) pipes based on unsaturated polyester (UP) resin for pressure and non-pressure drainage and sewerage applications	AS 3571.1 Plastics piping systems - Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin - Pressure and non-pressure drainage and sewerage	2009	No
	Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin for pressure and non-pressure water supply applications.	AS 3571.2 Plastics piping systems - Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin - Pressure and non-pressure water supply	2009	No
Plastic pipe with noise reduction	Noise reduction pipes made of a compound of polypropylene and inert mineral additives for waste and drainage installations with intermittent operating temperatures up to 95°C.	WMTS-508 Plastics piping systems for soil and waste discharge – with noise reduction characteristics	2013	No

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Pipes – Other

Product type	Product scope/application	Specification	Year	Lead Free Applies
Cured in Place Pipe (CIPP)	Cured-in-place pipes (CIPP) used for the rehabilitation of above and below ground drainage and sewerage pipelines. The process may be applied to metallic and non-metallic non-pressure piping systems in pipe sizes DN 40 to 1000.	WMTS-518 Rehabilitation of existing non-Pressure Pipelines by the use of Cured In Place Pipe (CIPP)	2017	No
Vitrified clay pipe	Perforated pipes made from vitrified clay with or without sockets for the construction of french drains, land drains and drainage of waste tips	EN 295 Vitrified clay pipe systems for drains and sewers	2013	No
Epoxy coating for lining of metallic piping	Epoxy barrier coating system used for lining of metallic cold and heated water pressurised piping systems utilised for drinking water supply. The system may be applied to metallic substrates in pipe sizes DN 15 to 300.	WMTS-511 Epoxy barrier coating system for use in water supply applications	2014	No

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Fittings – Metallic

Product type	Product scope/application	Specification	Year	Lead Free Applies
Copper alloy fittings	Metallic body pipe fittings and connectors for use with copper tube, stainless steel pipe, stainless steel tube and adaptor fittings for connection to other pipe materials in water supply systems. Note: Product testing specific to gas products are not required.	AS 3688 Water supply and gas systems - Metallic fittings and end connectors Note: See NoD 2017/4.3	2016	Yes
	Cast, hot-pressed, shell-moulded, and tubular fittings with socket/spigot capillary connection ends for use in non-pressure sanitary plumbing applications with the nominal sizes from DN 32 to 225.	AS 3517 Capillary fittings of copper and copper alloy - Non-pressure sanitary plumbing applications	2007	No
	Copper alloy waste fittings including traps, gullies, waste outlets, gratings and connectors.	AS 1589 Copper and copper alloy waste fittings	2001	No
Copper fittings	Copper waste fittings including traps, gullies, waste outlets, gratings and connectors.	AS 1589 Copper and copper alloy waste fittings	2001	No
	Metallic body fittings and connectors for use with copper tube, stainless steel pipe, stainless steel tube and adaptor fittings for connection to other pipe materials in water supply. Note: Product testing specific to gas products are not required.	AS 3688 Water supply and gas systems - Metallic fittings and end connectors Note: See NoD 2017/4.3	2016	No
	Cast, hot-pressed, shell-moulded, and tubular fittings with socket / spigot capillary connection ends for use in non-pressure sanitary plumbing applications with the nominal sizes from DN 32 to 225.	AS 3517 Capillary fittings of copper and copper alloy - Non-pressure sanitary plumbing applications	2007	No
	Copper and copper alloy waste fittings for use in sanitary plumbing installations including traps, gullies, waste outlets, gratings, and connectors.	AS 1589 Copper and copper alloy waste fittings	2001	No
Ductile Iron fittings	Fittings intended primarily for use with water supply pressure pipes.	AS/NZS 2280 Ductile iron pipes and fittings	2020	No
Stainless steel fittings	Stainless steel fittings for applications in the operating temperature range from - 40°C to 100°C.	AS 3495 Authorization requirements for plumbing products - Stainless steel non-pressure pipes and fittings	1997	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
	Metallic body pipe fittings and connectors for use with stainless steel pipe, stainless steel tube and adaptor fittings for connection to other pipe materials in water supply systems where the maximum operating pressure does not exceed 2,100 kPa.	AS 3688 Water supply—Metallic fittings and end connectors Note: See NoD 2017/4.3	2016	No
Stainless steel/nano-antibiotic PP-R pipe fittings	Composite piping system consisting of a stainless steel outer casing bonded to an inner layer of polypropylene (PP-R), which includes a contact layer of nano-antibiotic material intended for use in cold and heated water supply systems at continuous operating temperatures up to 80°C with short exposures up to 100°C and continuous working pressures not exceeding 1.4 MPa.	WMTS-473 Stainless steel/nano-antibiotic PP-R pipe systems for water supply applications	2016	No
Cast Iron fittings	Cast grey iron (flake graphite) non-pressure fittings up to nominal size DN 300 and intended to be used where the internal working pressure is negligible Cast iron pipeline components (including gullies) used for the construction of discharge systems for buildings and of drains, normally as gravity systems of nominal sizes of DN 40 to 600 (inclusive).	AS 1631 Cast grey and ductile iron non-pressure pipes and fittings EN 877 Cast iron pipes and fittings	1994 1999	No No
Grey cast iron fittings	Cast grey iron (flake graphite) non-pressure fittings (including gullies) up to nominal size DN 300 and intended to be used where the internal working pressure is negligible.	AS 1631 Cast grey and ductile iron non-pressure pipes and fittings	1994	No
Aluminium alloy fittings	Aluminium alloy fittings for the conveyance of water for above-ground applications for use at continuous operating temperatures up to 70°C and allowable operating pressures of 1920 kPa in sizes ranging from DN 15 to 150, with an internal plastics lining for use with— a) aluminium alloy fittings with an internal plastics lining and mechanical compression joint system in sizes ranging from DN 15 to 50; and b) roll-grooved system utilizing polymeric-coated ductile iron couplings and associated fittings with rigid elastomeric sealed joints in sizes ranging from DN 50 to 150.	WMTS-491 Aluminium alloy piping system with plastics lining for plumbing water services applications	2016	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Flexible couplings	<p>Metal-banded flexible either with or without metal shear rings to be used in below or above ground low-pressure systems which convey water or waste water designed for jointed items having the same or similar nominal internal diameters.</p> <p>Note: Spigot and socket joints with elastomeric seals and adaptor flexible couplings designed for jointed items having significantly different diameters are outside of the scope.</p>	AS/NZS 4327 Metal-banded flexible couplings for low-pressure applications	1995	No
Repair clamps	<p>Mechanical clamps including:</p> <p>a) Type R clamps primarily for ductile iron, grey cast iron, steel, asbestos cement, copper and reinforced concrete; and</p> <p>b) Type F clamps primarily for PVC-O, PVC-M, PVC-U and GRP.</p>	AS 4181 Repair and off-take clamps for water industry purposes.	2013	No
Semi-flexible metallic hose assemblies	Semi-flexible metallic hose assemblies from DN 20 to DN 400 with a working pressure of 1200 to 2500 kPa for use with above ground heated water up to 90°C and cold-water supplies in accessible and not submerged locations.	WMTS-520 Semi-flexible metallic hose assemblies	2016	Yes
Stainless steel flexible assemblies	Flexible assemblies constructed from annularly corrugated stainless steel tube of up to DN 50, for use at continuous operating temperatures up to 80°C and continuous working pressures of at least 1400 kPa intended to be installed above-ground and accessible locations.	WMTS-489 Stainless steel flexible assemblies for pumping applications	2016	Yes
Mechanical tapping bands	<p>Plastics or metal tapping saddles for assembly on polyethylene (PE) pressure pipes.</p> <p>PN 16 mechanical tapping bands for the connection of property service pipes to reticulation water mains including tapping bands, with and without electrical insulation, for mechanical connection to standard water mains. The nominal operating temperature is 0°C to 40°C. The nominal size range of DN 80 to 450 with outlet sizes ranging from DN 15 to 50.</p> <p>Note: Solvent cemented PVC tapping bands and tapping bands for polyethylene water mains are outside of the scope.</p>	AS/NZS 4129 Fittings for polyethylene (PE) pipes for pressure applications	2020	Yes
		AS 4793 Mechanical tapping bands for waterworks purposes	2020	Yes

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Fittings – Plastic

Product type	Product scope/application	Specification	Year	Lead Free Applies
Acrylonitrile butadiene styrene (ABS) fittings	Solid-wall acrylonitrile-butadiene-styrene (ABS) fittings for soil and waste discharge (low and high temperature) inside buildings, designed for jointing by means of elastomeric sealing rings, solvent cementing or integral dual-purpose sockets.	ISO 7682 Plastics piping systems for soil and waste discharge	2003	No
Cross-linked polyethylene (PE-X) fittings	Fittings for use with crosslinked polyethylene (PE-X) for pressure heated and cold water applications.	AS/NZS 2537.2 Mechanical jointing fittings for use with crosslinked polyethylene (PE-X), Part 2: Plastics piping systems for hot and cold water installations – Crosslinked polyethylene(PE-X) – Fittings Note: See NoD 2017/4.3	2011	Yes
Macro composite fittings	Multilayer piping systems for heated and cold water installations inside buildings.	AS 4176.3 Multilayer piping systems for hot and cold water plumbing applications – Fittings Note: See NoD 2017/4.3	2010	Yes
Polybutylene (PB) fittings	Mechanical jointing fittings suitable for use as fixed joints with polybutylene plumbing pipes.	AS/NZS 2642.3 Polybutylene (PB) plumbing pipe systems Mechanical jointing fittings for use with polybutylene (PB) pipes for hot and cold water applications. Note: See NoD 2017/4.3	2008	Yes
Polyethylene (PE) fittings	Fittings to be used with polyethylene pipe for the conveyance of water and other fluids.	AS/NZS 4129 Fittings for polyethylene (PE) pipes for pressure applications	2020	Yes
	Solid-wall polyethylene (PE) fittings for soil and waste discharge (low and high temperature) of DN 32 to 100.	AS/NZS 4401 Plastics piping systems for soil and waste discharge (low and high temperature) inside buildings - Polyethylene (PE) Note: See NoD 2017/4.3	2006	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
	Polyethylene (PE) fittings greater than DN 100 for sewerage and drainage applications, intended to be used where the pipeline is operating under gravity flow and the operating pressure is low. Including both plain and structured wall fittings.	AS/NZS 5065 Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications Note: See NoD 2017/4.3	2005	No
	Polypropylene (PP) fittings greater than DN 100 for sewerage and drainage applications, intended to be used where the pipeline is operating under gravity flow and the operating pressure is low. Including both plain and structured wall pipes and fittings.	AS/NZS 5065 Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications Note: See NoD 2017/4.3	2005	No
Polypropylene (PP) fittings	Polypropylene (PP) fittings for soil and waste discharge (low and high temperature). This is applicable to PP fittings, and assemblies fittings, intended to be used for soil and waste discharge pipework for the conveyance of domestic waste waters (low and high temperature) and associated ventilation pipework. Fittings for jointing by means of elastomeric sealing rings or by butt fusion.	AS/NZS 7671 Plastics piping systems for soil and waste discharge (low and high temperature) inside buildings	2010	No
	Polypropylene (PP) piping systems intended to be used for heated and cold water installations within buildings.	ISO 15874-3 Plastic piping systems for hot and cold water installations – Polypropylene (PP) – Fittings Note: See NoD 2017/4.3	2013	Yes
	Polypropylene (PP) piping systems intended to be used for heated and cold water installations within buildings.	ISO 15874-1 Plastic piping systems for hot and cold water installations – Polypropylene (PP) – General	2013	Yes
Polyvinyl chloride (PVC) fittings	PVC-U fittings (including gullies and expansion joints) for sewer, drain, waste and vent applications, intended to be used where the pipeline is operating under gravity flow and the operating pressure is low. Including plain and structured wall fittings.	AS/NZS 1260 PVC-U pipes and fittings for drain, waste and vent applications	2017	No
	PVC fittings for pressure applications where not exposed to direct sunlight.	AS/NZS 1477 PVC pipes and fittings for pressure applications	2017	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Metric polybutylene (PB) fittings	Mechanical and fusion jointing fittings suitable for use as fixed joints with polybutylene pipes of the following types: a) Socket weld fittings. b) Electrofusion fittings. c) Mechanical fittings. d) Fittings with incorporated inserts.	AS 5082.2 Polybutylene (PB) plumbing pipe systems - Metric series - Mechanical and fusion jointing systems	2007	Yes
Glass-filament-reinforced thermosetting plastic (GRP) fittings	Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin. Used for pressure and non-pressure drainage and sewerage applications.	AS 3571.1 Plastics piping systems - Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin - Pressure and non-pressure drainage and sewerage	2009	No
	Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin. For use in pressure and non-pressure water supply applications.	AS 3571.2 Plastics piping systems - Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin - Pressure and non-pressure water supply	2009	No
Plastic fittings with noise reduction	Noise reduction fittings made of a compound of polypropylene and inert mineral additives for use at intermittent operating temperatures up to 95°C.	WMTS-508 Plastics piping systems for soil and waste discharge – with noise reduction characteristics	2013	No
Plastic waste outlets	A plastic waste outlet which may incorporate components made from either plastic or other materials.	AS 2887 Plastic waste fittings	1993	No
Plastic fixture traps	Moulded or fabricated plastic waste fittings suitable for receiving intermittent liquid discharges at temperatures not exceeding 95°C.	AS 2887 Plastic waste fittings	1993	No
Soil waste dump fittings	DN 80 or DN 100 plastics-bodied fitting that is utilised as soil waste dump point for mobile toilet waste disposal.	WMTS-482 Soil waste dump fitting	2016	No
Plastic bodied flexible couplings	Plastic bodied couplings up to DN 225 with included elastomeric element that provides limited flexibility and are utilised in non-pressure rigid pipeline systems.	WMTS-519 Plastic Bodied Flexible Coupling	2016	No

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Product type	Product scope/application	Specification	Year	Lead Free Applies
Plastic bodied fitting with intermediate flexible joints	Plastics bodied fittings of nominal sizes up to DN 225 with intermediate flexible joints for sewer or drain applications intended to be used where the pipeline is operating under gravity flow and the operating pressure is low.	WMTS-055 Plastic fittings – Connectors with flexible intermediate joints for drainage and sewerage applications	2008	No
	Injected moulded offset pan connectors.	WMTS-517 Offset pan connectors	2016	No
Offset pan connectors	Moulded or fabricated plastic waste fittings used to convey liquids not exceeding 95°C from a fixture to discharge pipework.	AS 2887 Plastic waste fittings	1993	No
	PVC-U fittings for sewer drain, waste and vent application intended to be used where the pipeline is operating under gravity flow and the operating pressure is low.	AS/NZS 1260 PVC-U pipes and fittings for drain, waste and vent applications.	2017	No
Plastic waste fitting	Moulded or fabricated plastic waste fittings used to convey liquids not exceeding 95°C from a fixture to discharge pipework.	AS 2887 Plastic waste fittings	1993	No

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Fittings – Other

Product type	Product scope/application	Specification	Year	Lead Free Applies
Vitrified clay fittings	Perforated fittings (including gullies, adaptors and connectors) made from vitrified clay with or without sockets for the construction of french drains, land drains and drainage of waste tips.	EN 295 Vitrified clay pipe systems for drains and sewers	2013	No
Odour control filters	Filter assemblies of nominal sizes DN 40 to 100, designed to be installed in a sanitary drainage system.	WMTS-483 Odour control filter	2017	No
Waste outlets	Metallic and plastics bodied waste pipe outlets for sanitary plumbing applications.	WMTS-040 Waste pipe connection outlets and gratings, separate or integral	2021	No
Waste gratings	Metallic and plastics bodied waste gratings, separate or integral for sanitary plumbing applications.	WMTS-040 Waste pipe connection outlets and gratings, separate or integral	2021	No
Barrier floor drain trap seals	Barrier type floor drain trap seal protection device for floor drain pipes of nominal sizes DN 40, 50, 80 and 100.	WMTS-522 Fixtures and floor wastes – Supplementary protection devices barrier	2021	No
Self-sealing trap	Self-sealing devices of nominal sizes DN 32, 40 and 50.	WMTS-047 Self-sealing devices	2016	No

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Shafts and pumping stations

Product type	Product scope/application	Specification	Year	Lead Free Applies
Inspection shaft	Unplasticised polyvinyl chloride (PVC-U), polypropylene (PP) and polyethylene (PE) plastics piping systems for non-pressure underground drainage and sewerage. Specifications for ancillary fittings including shallow inspection chambers.	EN 13598-1 Plastics piping systems for non-pressure underground drainage and sewerage	2010	No
Sanitary pump and lifting station	Appliances for the conveyance of soil and/or waste water from plumbing fixtures to the sanitary drainage system, which may incorporate a macerator.	WMTS-106 Small bore pumping units	2019	No
Maintenance shaft	PVC-U maintenance shaft comprising a fabricated or injection-moulded, or both, chamber jointed to an extruded PVC riser intended for installation in sewerage systems (up to DN 300) for transportation of sewage at atmospheric pressure and average service temperatures up to 25°C.	AS/NZS 4999 PVC-U maintenance shafts	2006	No
	Polypropylene (PP) access chambers / maintenance shafts comprising an injection-moulded chamber for jointing to extruded PVC-U sewers or drains and riser shafts intended for installation in plumbing, sewerage and drainage systems (up to DN 225) for transportation of sewage at atmospheric pressure and the operating temperature is not greater than a nominal 25°C.	WMTS-509 Polypropylene Access Chambers and Maintenance Shafts for Plumbing and Drainage	2018	No