WATERMARK

# Schedule of Products

WaterMark Certification Scheme

2025-1

Australian Building Codes Board

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## 2025-1

## The Australian Building Codes Board

The Australian Building Codes Board (ABCB) is a joint initiative of all levels of government in Australia, together with the building industry. Its mission is to oversee issues relating to health, safety, amenity and sustainability in building. The ABCB promotes efficiency in the design, construction and performance of buildings through the National Construction Code, and the development of effective regulatory and non-regulatory approaches. The Board aims to establish effective and proportional codes, standards and regulatory systems that are consistent between states and territories.
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## Attribution

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# Introduction

The WaterMark Certification Scheme is a mandatory certification scheme for certain plumbing and drainage products to ensure they are fit for purpose for use in a plumbing and drainage installation. The ABCB manages and administers the Scheme.

The National Construction Code – Volume Three, Plumbing Code of Australia (PCA) requires certain plumbing and drainage products to be certified and authorised for use in a plumbing or drainage installation.

The scope of the WaterMark Certification Scheme is based on the following principles:

a) The installation of the product is covered by the PCA and regulated by all States and Territories (excluding State and Territory variations, which vary how the product is regulated through the PCA);
b) The objectives of the Scheme[1]; and
c) The product category is to present a public risk requiring mitigation through the Scheme, as determined by the Protocol for the Assessment of Risks of Plumbing Products[2] and subsequent listing on the WaterMark Schedule of Products.

It is important to note that not all plumbing and drainage products require WaterMark certification. However, all materials and products proposed to be used in a plumbing and drainage installation require a risk assessment to determine if WaterMark certification is necessary.

This document, the WaterMark Schedule of Products, lists products that have been predetermined to require WaterMark certification. Another document, the WaterMark Schedule of Excluded Products, lists products that have been predetermined to not require WaterMark certification to meet the requirements of the PCA.

A material or product intended for use in contact with drinking water must comply with AS/NZS 4020 in accordance with Part A of the PCA.

From time to time the WaterMark Administration may issue Notices of Direction (NoD) which relevant stakeholders must comply with. Any NoD published which may be of relevance to a product or product specification listed on this Schedule has been identified within a note.

[1] ABCB, *Manual for the WaterMark Certification Scheme*, page 23.
[2] ABCB, *Manual for the WaterMark Certification Scheme*, page 85.

NoD 2021/4 *Certification transition arrangements for lead free plumbing products* was published on the ABCB website in December 2021 and has been periodically updated since that time. This NoD includes details regarding the forthcoming lead free material requirements for any product containing copper alloy which is intended for use in contact with drinking water. A transition period from 1 May 2023 to 30 April 2026 has been provided to comply with these requirements. From 1 May 2026 only products WaterMark certified as conforming to the Lead Free requirements of NCC Volume Three, where required, will be authorised for use in plumbing installations. This schedule indicates the product types for which lead free requirements apply.

The specifications referenced in this Schedule are periodically reviewed and new editions are published. Between editions, amendments may be issued and specifications withdrawn. It is important that readers assure themselves they are using a current specification, which could include any amendments which may have been published since the specification was obtained.

This document is uncontrolled when printed, the information contained within changes from time to time. You should consult the ABCB website to verify its currency.

This version, 2025-1, was published in April 2025.

## 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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/Milk jug rinser** | 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 |

| 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) drinking water treatment systems for drinking water purposes including but not limited to; filters to reduce aesthetic impurities such as chlorine and taste/odour, and reduce a contaminant with a health effect eg carbon filters, and ultraviolet treatment systems, and reverse osmosis systems, and treatment systems for emerging contaminants eg. pharmaceuticals or chemicals, and microbiological water purifiers. | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |
| **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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Pedicure foot spa** | Appliance to deliver tempered water to a receptacle for foot washing and/or hydromassage. | WMTS-101 Appliances (low hazard rating) | 2021 | No |

## 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 | 2021 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br><br>Note: See NoDs 2016/1.1 and NoD 2017/4.4 | 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<br><br>Note: See NoD 2017/4.4 | 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<br><br>Note: See NoD 2017/4.4 | 2014 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Urinal** | Waterless wall-hung urinals manufactured from vitreous china, plastic or stainless steel. | WMTS-459 Waterless urinals - Wall-hung | 2018 | No |
| | Flushing urinals including slab or trough, stall, and wall-hung single-stall or pedestal configuration. | AS 1172.6 Sanitary plumbing products: Flushing urinals | 2022 | No |
| | 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 | 2022 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Automatic concealed urinal** | Plastic bodied in-wall mounted urinal that is concealed when not in use and opens when user enabled by automatic non-contact sensor operation. | WMTS-537 Automatic concealed urinal | 2022 | 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<br>Note: See NoD 2017/4.4 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Flushing sink** | Flushing rim with DN 100 spigot | WMTS-526 Flushing sink | 2018 | No |

# Tapware

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Tapware** | 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.<br>**** Lead Free exceptions: Bidet tapware; shower mixers, shower bath diverter mixers, floor standing bath filler and included mixers & showers, bath outlets – unrestricted flow, commercial pre-rinse spray tapware (not to apply to included pot fillers) are excluded from the Lead Free requirements.* | AS 3718 Water supply - Tap ware | 2021 | Yes<br>*(Exceptions: *** are excluded)* |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Tap accessories** | 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. | AS 3718 Water supply - Tap ware | 2021 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Shower** | 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. | AS/NZS 3662 Performance of showers for bathing | 2005 | No |
| | 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. | AS 3718 Water Supply – Tap ware | 2021 | Yes *(Exception: Shower mixer tapware is excluded to align with international convention)* |
| **Hand wash station** | Hand washing stations which automatically mix water, soap and air for hygienic washing. | WMTS-527 Automatic hand washing stations | 2019 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Thermostatically controlled taps** | Thermostatic mixing taps used for ablutionary purposes for use with heated water:<br>a) at a supply temperature not exceeding 90°C;<br>b) with working pressures not exceeding 1400 kPa; and<br>c) of nominal sizes not larger than DN 20.<br>**** Lead Free exceptions: Bidet tapware; shower mixers, shower bath diverter mixers, floor standing bath filler and included mixers & showers, bath outlets – unrestricted flow, commercial pre-rinse spray tapware (not to apply to included pot fillers) are excluded from the Lead Free requirements.* | 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<br>*(Exceptions: *** are excluded)* |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Flexible hose assemblies** | Class 2, 3 and 4 flexible hose assemblies for use with both heated water and cold water supplies with a maximum heated water temperature of 90 °C used for applications above ground and accessible. Nominal sizes range up to DN 50 and with a working pressure not exceeding 1 400 kPa at 20 °C. Class 1 flexible hose assemblies are not eligible for WaterMark Certification. | AS 3499 Water supply - Flexible hose assemblies | 2022 | Yes |

## Systems

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br>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:<br>a) Water closet pans and flushing devices;<br>b) Basin; and<br>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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

**Table notes:**

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.

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.

## Device 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.<br><br>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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| | 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.<br>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.<br>**** Lead Free exceptions: changeover devices/connection devices/connection valves in a dedicated service to non-drinking water outlets are excluded from the Lead Free requirements.* | WMTS-466 Rainwater tank connection devices | 2016 | Yes<br>*(Exceptions: *** are excluded)* |
| | Automated valves of nominal sizes DN 20/25 and nominal working pressure PN 16.<br>**** Lead Free exceptions: changeover devices/connection devices/connection valves in a dedicated service to non-drinking water outlets are excluded from the Lead Free requirements.* | WMTS-467 Rainwater tank connection valve | 2016 | Yes<br>*(Exceptions: *** are excluded)* |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| | Manual or automated changeover devices of nominal sizes DN 20/25 and maximum allowable operating pressures up to and including 1600 kPa.<br>**** Lead Free exceptions: changeover devices/connection devices/connection valves in a dedicated service to non-drinking water outlets are excluded from the Lead Free requirements.* | WMTS-477 Rainwater/mains supply changeover devices | 2016 | Yes<br>*(Exceptions: *** are excluded)* |
| **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 |
| **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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 85ºC. | WMTS-479 Flood stop safety valve | 2020 | 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.<br>Note: This excludes tanks installed outside of the scope of the PCA. | WMTS-026 Cold water storage tanks | 2016 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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.<br>Note: This excludes tanks installed outside of the scope of the PCA. | 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 conditioner** | Metallic or plastic bodied in line or end of line water treatment devices for conditioning of water and prevention of scaling | AS 3497 Drinking water treatment systems - Design and performance requirements | 2021 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |
| **Wet well washers** | Prefabricated washing device consisting of a rotating arm with included spray nozzles designed specifically for use with wet wells and tanks. These devices are designed to be permanently fixed to the wet well and not portable. | WMTS-533 Wet well washers | 2022 | No |

# 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Geothermal energy heat pump system for home air conditioning and supplementary potable water heater** | Geothermal system for air conditioning and storing energy in the water contained in a storage tank. During the cooling period, heat extracted from the ambient by the system is stored in water, and the heat transfer is facilitated by a stainless steel heat exchanger. The water is stored in an electric storage water heater. When the temperature in the tank gets to $60^0$C, heat transfer from the refrigerant to the waterside is stopped by de-energizing a pump that transfers water from the storage tank to the heat exchanger and back to the storage tank. Water Mark Certification is only for components covered under the Plumbing Code of Australia (PCA). WaterMark Certification shall not be used to cover off on components that may lie outside the PCA scope, such as refrigeration equipment. | AS 3498 Water heaters and hot-water storage tanks | 2020 | Yes |

| 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** | 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 — continuous operating temperature not exceeding 85°C and 99°C under emergency conditions; and continuous working pressure not exceeding 1400 kPa. | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

# 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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:<br>a) Seal on disc DN 300 to DN 2000.<br>b) Seal in body DN 80 to DN 2000.<br>c) Seal on body DN 80 to DN 2000. | AS 4795.2 Butterfly valves for waterworks purposes Double flanged | 2025 | 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 | 2023 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |
| | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

# 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<br><br>Note: See NoD 2017/4.4 | 2022 | 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<br><br>Note: See NoD 2017/4.4 | 2023 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2022 | 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) | 2022 | 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 | 2022 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2022 | Yes |
| **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 | 2022 | 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 | 2022 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2022 | 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 | 2022 | 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 | 2022 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2022 | 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 | 2022 | 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 | 2022 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2022 | Yes |
| **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 | 2022 | 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 | 2022 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Non-return reflux valve** | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Non-return reflux valve** | 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 |

## 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:<br>a) continuous operating temperatures not exceeding 85°C and 99°C in emergency conditions<br>b) continuous working pressure not exceeding 1400 kPa. | AS 1357.1 Valves primarily for use in heated water systems Protection valves<br>Note: See NoD 2017/4.4 | 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: flushing valves for mains supply incorporating air gap pipe disconnections (manual or sensor operated; and flushing valves for use with break tank supply. | AS 1172.2 Water closets (WCs) Flushing devices and cistern inlet and outlet valves<br>Note: See NoD 2017/4.4 | 2014 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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.<br>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. See NoD 2017/4.4 | 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 | 2023 | Yes |
| | 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 | 2024 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2023 | 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 | 2023 | 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 | 2024 | 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 | 2023 | 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 | 2024 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br>Note: See NoD 2017/4.4 | 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 | 2023 | Yes |

| 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:<br>a) at continuous operating temperature not exceeding 85°C and 99°C under emergency conditions; and<br>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.<br>Note: See NoD 2017/4.4 | 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<br>Note: See NoD 2017/4.4 | 2024 | 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 | 2023 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | 2023 | 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 |
| **Metallic pressure differential bypass valve** | For use in heated water systems up to DN32 with continuous operating temperatures not exceeding 85°C and pressures not exceeding 1000 kPa. | WMTS-534 Metallic pressure differential bypass valves used in heated water systems | 2021 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Anti-slam air valve** | Anti-slam air valve from DN 15 to DN 250, with a maximum operating temperature of 70°C. NOTE: AS 4956 should be read in conjunction with this specification | WMTS-535 Anti-slam air valves for plumbing applications | 2022 | Yes |

## Fire service

| Product type | 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 |

# Jointing products

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Brazing alloy** | Jointing material utilized in the installation of water supply plumbing systems. | WMTS-014 Jointing materials | 2016 | No |
| **Solder** | Jointing material utilized in the installation of water supply plumbing systems. | WMTS-014 Jointing 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:<br>a) cold potable water supply (up to 40°C); and<br>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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Lubricant** | Jointing material utilized in the installation of water supply plumbing systems. | WMTS-014 Jointing materials | 2016 | No |
| **Priming fluid** | Solvent cements and priming fluids used in the jointing of:<br>a) tapered/interference and parallel/no or low interference fit polyvinyl chloride (PVC-U and PVC-M) pressure and non-pressure piping systems;<br>b) acrylonitrile butadiene styrene (ABS) pressure and non-pressure piping systems; and<br>c) ABS and acrylonitrile styrene acrylate (ASA) fittings for non-pressure drainage applications with PVC-U pipes. | AS 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 3879 Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings | 2011 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Solvent cement for acrylonitrile butadiene styrene (ABS) and acrylonitrile styrene acrylate (ASA)** | Solvent cements and priming fluids used in the jointing of - acrylonitrile butadiene styrene (ABS) pressure and non-pressure piping systems; and ABS and acrylonitrile styrene acrylate (ASA) fittings for non-pressure drainage applications with PVC-U pipes. | AS 3879 Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings | 2011 | No |
| **Sealant (general)** | Jointing material utilized in the installation of water supply plumbing systems. | WMTS-014 Jointing materials | 2016 | No |
| **Thread sealant** | Jointing material utilized in the installation of water supply plumbing systems. | WMTS-014 Jointing materials | 2016 | No |
| **Roll-grooved fittings** | 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.<br>Note: Product testing specific to gas products are not required. | AS 3688 Water supply and gas systems – metallic fittings and end connectors<br>Note: See NoD 2017/4.4 | 2016 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

## 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:<br>a) Brass tubes intended primarily for sanitary plumbing services; and<br>b) 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.<br>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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br>Note: See NoD 2017/4.4 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 pipe systems and their components for the evacuation of water from works | 2021 | No |
| **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 |

# 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 butadine 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<br>Note: See NoD 2017/4.4 | 2007 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br><br>Note: See NoD 2017/4.4 | 2010 | No |
| **Polybutylene (PB) pipe** | Polybutylene pipe of pressure class PN16 up to 28 mm nominal outside diameter for heated and cold water applications.<br><br>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<br><br>Note: See NoD 2017/4.4 | 2008 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br>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)<br>Note: See NoD 2017/4.4 | 2006 | No |
| | 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<br>Note: See NoD 2017/4.4 | 2005 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br>Note: See NoD 2017/4.4 | 2013 | No |
| | Solid-wall polypropylene (PP) pipes for soil and waste discharge (low and high temperature) inside buildings.<br>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<br>Note: See NoD 2017/4.4 | 2005 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

| 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 |

## 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 |

# 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.<br><br>Note: Product testing specific to gas products are not required. | AS 3688 Water supply and gas systems - Metallic fittings and end connectors<br><br>Note: See NoD 2017/4.4 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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.<br>Note: Product testing specific to gas products are not required. | AS 3688 Water supply and gas systems - Metallic fittings and end connectors<br>Note: See NoD 2017/4.4 | 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 gullies and expansion joints** | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |
| | 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<br>Note: See NoD 2017/4.4 | 2016 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 | AS 1631 Cast grey and ductile iron non-pressure pipes and fittings | 1994 | No |
| | 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). | EN 877 Cast iron pipe systems and their components for the evacuation of water from works | 2021 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 —<br>a) aluminium alloy fittings with an internal plastics lining and mechanical compression joint system in sizes ranging from DN 15 to 50; and<br>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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Flexible couplings** | 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.<br>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. | AS/NZS 4327 Metal-banded flexible couplings for low - pressure applications | 1995 | No |
| **Repair clamps** | Mechanical clamps including:<br>a) Type R clamps primarily for ductile iron, grey cast iron, steel, asbestos cement, copper and reinforced concrete; and<br>b) Type F clamps primarily for PVC-O, PVC-M, PVC-U and GRP. | AS 4181 Repair and off-take clamps for water industry purposes. | 2013 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| | Plastics or metal tapping saddles for assembly on polyethylene (PE) pressure pipes. | AS/NZS 4129 Fittings for polyethylene (PE) pipes for pressure applications | 2020 | Yes |
| **Mechanical tapping bands** | 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 50 to 450 with outlet sizes ranging from DN 15 to 50.<br>Note: Solvent cemented PVC tapping bands are outside of the scope. | AS 4793 Mechanical tapping bands for waterworks purposes | 2020 | Yes |

## 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<br>Note: See NoD 2017/4.4 | 2011 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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<br><br>Note: See NoD 2017/4.4 | 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.<br><br>Note: See NoD 2017/4.4 | 2008 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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)<br>Note: See NoD 2017/4.4 | 2006 | No |
| | 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<br>Note: See NoD 2017/4.4 | 2005 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| | 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<br>Note: See NoD 2017/4.4 | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Polypropylene (PP) fittings** | 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<br>Note: See NoD 2017/4.4 | 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 |

| 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:<br>a) Socket weld fittings.<br>b) Electrofusion fittings.<br>c) Mechanical fittings.<br>d) Fittings with incorporated inserts. | AS 5082.2 Polybutylene (PB) plumbing pipe systems - Metric series - Mechanical and fusion jointing systems | 2007 | Yes |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 300 with included elastomeric element that provides limited flexibility and are utilised in non-pressure rigid pipeline systems. | WMTS-519 Plastic Bodied Flexible Coupling | 2024 | No |

| 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 300 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 | 2024 | No |
| **Offset pan connectors** | Injected moulded offset pan connectors. | WMTS-517 Offset pan connectors | 2016 | No |
| | 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **Fixture connector adaptor** | Smooth bore plastic-bodied fixture connector adaptors with an adjustable offset used to provide flexibility at the point of installing fixtures to the sanitary plumbing system. | WMTS-536 Fixture connector adaptor | 2022 | No |

## 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. See NoD 2017/4.4 | 2022 | 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, See NoD 2017/4.4 | 2022 | No |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

## 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 |

| Product type | Product scope/application | Specification | Year | Lead Free Applies |
|---|---|---|---|---|
| **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 |

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