

Register of Approved Products for use in Water Services Infrastructure

October 2025

Revision 3.0



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This document was developed for the benefit of the city and district councils of Hutt, Porirua, Wellington, Hutt, Upper Hutt, South Wairarapa and Greater Wellington Regional Council.

Document control

Revision history

Rev No	Revision Description	Date
Rev 1.0		Aug 2019
Rev 2.0	Updated formatting and inclusions	Nov 2021
Rev 2.1	Updated product detail	Dec 2021
Rev 2.2	Added summary of changes table, amendments to product requirements	Mar 2022
Rev 2.3	Updated with additional approved products Illustrations included as general guide to product type Removed APR application numbers	Aug 2024
Rev 3.0	Updated with additional approved products Added material specifications, and specific product illustrations	Oct 2025

Approval

Name	Role	Approval	Date
Francis Leniston	Head of Design		29 October 2025

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1. Introduction

This document lists products that are accepted for use in conjunction with [STD_0001](#) *Regional Standard for Water Services* and [STD_0002](#) *Regional Specification for Water Services*. The list is generally restricted to commonly used fixtures and fittings used on the stormwater (SW), wastewater (WW) or water supply (WS) networks. Specialised items, such as pumps, radio transmitters and electrical components, are not included. Prior to design, the designer should confirm the requirements for these specialised items with Wellington Water.

Where a product is not listed, it should be assumed that the product is not acceptable and confirmation or project-specific dispensation be sought from Wellington Water.

Illustrations are provided only as an aid to general identification of product type.

Wellington Water retains the right to review and withdraw product approval from this register at any time.

1.1. Summary of changes

Version	Topic	Description of revision
2.1	Concrete or epoxy lined ductile iron pipe	Kurimoto SRDIP pipe: <ul style="list-style-type: none"> Specified compliance with ISO 16134 Specified seismically resilient joint system
	Steel pipe	Corrected product name from Sintalock to Sintakote
2.2	Summary of changes	Added section
	Profiled polyethylene and polypropylene pipes	Restored general requirements for rubber ring joints and SN16 minimum (erroneously removed from v2.0)
2.3	Throughout	Removed extraneous columns from tables, clarified relevant networks for each product
	Steel pipe	Clarified that Sintakote pipe is approved with Sintalock joints only
	Concrete pipe	Added PinnacleX
	Polyethylene electrofusion fittings	Restored Agru approval
	Full faced reducing flanges	Added a new section including Simona, Solo and Plasson Reducing Full Faced Flanges
	Mechanical couplings	Added HIWA bolted unrestrained mechanical coupler and flange adapter products.
	Dismantling joints	Added HIWA dismantling joint product
	Tapping bands	Added Promains Hermetica SS Permanent Repair Clamp 380 mm clamp with tapping offtake
	Repair clamps	Added Promains Hermetica SS Permanent Repair Clamp 200 mm clamp and 380 mm clamp
	Gate valves – Resilient Seated	Added HIWA valve product and Hawle E3 Resilient Seated Gate Valves
	Service valves (tobies)	Added Acuflo Composite Manifolds – Only for instances where metallic manifolds are not available

Version	Topic	Description of revision
	Water meters	Added Sensus 640 and Sensus iPERL inline meter
	Manhole covers	Added Pamrex 600 D400 Manhole Frame and Cover
	Prefabricated manhole systems	Added Hutt Concrete Products Twin Lake® Concrete Manhole System. Approved on Trial basis.
3.0	PVC pipe	Added products
	PE100 pipe	Added products


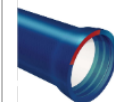


2. Pipes

All pipes shall be rated to the appropriate pressure class as defined in the Regional Standard for Water Services or Regional Specification for Water Services.

Where scenarios exist where the products listed below are not suitable, the Regional Standard for Water Services and Regional Specification for Water Services should be consulted for alternatives.



2.1. Concrete or epoxy lined ductile iron pipe for drainage or for repair of water supply

Compliant with AS/NZS 2280.

Product	Notes		WS	WW	SW
Tyton Xtreme Z+	<ul style="list-style-type: none"> Must be used with Tyton-lok rings. Polyethylene wrap to be used where ground conditions or specifications require. Alternative coating may be considered with approval. 			✓	
Tyton Xcel Z+	<ul style="list-style-type: none"> Must be used with Tyton-lok rings. Polyethylene wrap to be used where ground conditions or specifications require. Alternative coating may be considered with approval. Used for repairs on existing pipes only 		✓		
Saint Gobain PAM pipe	<ul style="list-style-type: none"> Must be used with Grip-Lok rings. Zinalium coating required as a minimum. Polyethylene wrap to be used where ground conditions or specifications require. Alternative coating may be considered with approval. Used for repairs on existing pipes only 		✓		
Humes DICI pipe	<ul style="list-style-type: none"> Must be used be used with Grip-lok restraining rings. Polyethylene wrap to be used where ground conditions or specifications require. Alternative coating may be considered with approval. DN150 and DN200, PN35 only. Used for repairs on existing pipes only 		✓		
Gillies Hydrotite DICI pipe	<ul style="list-style-type: none"> Must be used be used with Grip-lok restraining rings. Polyethylene wrap to be used where ground conditions or specifications require. Alternative coating may be considered with approval Used for repairs on existing pipes only 	N/A	✓		

2.2. Concrete or epoxy lined ductile iron pipe for new water supply pipelines

Compliant with ISO 2531.


Product	Notes		WS	WW	SW
Saint Gobain Concrete Lined Ductile Iron Pipe (ISO 2531)	<ul style="list-style-type: none"> Proprietary rubber ring joints with restrained jointing rated to a minimum PN16. Concrete or epoxy lining plus epoxy over zinc coating. 		✓		
Kurimoto SRDIP pipe (complies with ISO 16134)	<ul style="list-style-type: none"> Polyethylene wrap to be used where ground conditions or specifications require. Alternative coating may be considered with approval. To be used only on trunk mains and/or mains without service connections. DN 100, 150, 200, 300 and 400 only. Seismically resilient joint system. 		✓		

2.3. Polyvinylchloride pipe – non-pressure drainage applications

Polyvinylchloride, un-plasticised (PVC-U) compliant with AS/NZS 1260 plain wall, rubber ring jointed compliant with AS 1646, Series 1.

Accepted for lateral connections to private drains.

Accepted for public mains in Porirua, Hutt and Upper Hutt city councils.



Product	Notes		WS	WW	SW
Iplex Restrained PVC-U drainage pipe	<ul style="list-style-type: none"> Must use rubber ring joint. Solvent Cement Joint (SCJ) is not accepted. 			✓	✓

2.4. Polyvinylchloride pipe – water supply pressure applications

Polyvinylchloride, un-plasticised (PVC-U) pipe compliant with AS/NZS 1477, rubber ring jointed compliant with AS 1646, Series 1.

Polyvinylchloride, modified (PVC-M) pipe compliant with AS/NZS 4765, rubber ring jointed compliant with AS 1646, Series 1.

Allowable diameters for water supply PVC pipes are 100, 150 and 200 mm.

Product	Notes		WS	WW	SW
Iplex Novakey- PVC-U pipe, Series 1 (white)	<ul style="list-style-type: none"> Must use rubber ring joint. Solvent Cement Joint (SCJ) is not accepted. 		✓		
Iplex White Rhino PVC-M Series 1 (white)	<ul style="list-style-type: none"> Must use rubber ring joint. Solvent Cement Joint (SCJ) is not accepted. 		✓		

2.5. Polyethylene (PE) pipe

Compliant with AS/NZS 3130.

Allowable diameters for water supply PE pipes are 20, 25, 32, 40 and 50 mm for customer services (laterals), 50 mm for rider mains, 100, 150 and 200 mm for principal mains, and 300, 400 and 450 mm for trunk mains. Larger diameter PE pipe for water supply trunk (bulk) mains as in the Regional Standard for Water Services.


Allowable diameters for wastewater PE pipes are 110, 160, 250, 315, 400, 450, 500, 630, 710, 800, 900 and 1000 mm.

Product	Notes	WS	WW	SW
Waters & Farr PE100 pipe Series 1	Drainage pipe: <ul style="list-style-type: none"> Black pipe, diameters equal to or less than 1000mm OD and equal to or less than SDR 17. Pressure pipe - SDR 11, minimum PN16:	✓	✓ ✓	✓ ✓

	<ul style="list-style-type: none"> Colour as per the R.Spec depending on network. 			
Iplex POLIplex PE100 Pipe Series 1	Drainage pipe: <ul style="list-style-type: none"> Black pipe, diameters equal to or less than 1000mm OD and equal to or less than SDR 17. Pressure pipe - SDR 11, minimum PN16: <ul style="list-style-type: none"> Colour as per the R.Spec depending on network. 	✓	✓	✓
Asmuss Advantage PE100 Pipe Series 1	Drainage pipe: <ul style="list-style-type: none"> Black pipe, diameters equal to or less than 1000mm OD and equal to or less than SDR 17. Pressure pipe - SDR 11, minimum PN16: <ul style="list-style-type: none"> Colour as per the R.Spec depending on network. 	✓	✓	✓

2.6. Steel pipe

Compliant with NZS 4442, AS 1579 or BS 534.

Product	Notes	Photo	WS	WW	SW
Sintakote concrete lined steel	<ul style="list-style-type: none"> For pipe 600mm nominal bore or smaller. Flanged or Sintalock welded joints only 		✓		

2.7. Concrete pipe



Compliant with AS/NZS 4058.

Product	Notes	WS	WW	SW
Humes Spun pipe	<ul style="list-style-type: none"> Rubber-ring jointed and Class 2 minimum Will not typically be permitted for drains 375 mm and smaller for use in the wastewater network When used for wastewater, pipes must be factory lined with PE or manufactured with approved additives and a sacrificial layer to achieve durability requirements. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval. Shall only be installed on gravity pipelines. 		✓	✓
Hyspec VCT Rubber Ring Joint Concrete pipe	<ul style="list-style-type: none"> Rubber-ring jointed and Class 2 minimum Will not typically be permitted for drains 375 mm and smaller for use in the wastewater network . When used for wastewater, pipes must be factory lined with PE or manufactured with approved additives and a sacrificial layer to achieve durability requirements. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval. Shall only be installed on gravity pipelines. 		✓	✓
Humes Roller Compacted Pipe (RCP)	<ul style="list-style-type: none"> Rubber-ring jointed and Class 2 minimum Will not typically be permitted for drains 375 mm and smaller for use in the wastewater network When used for wastewater, pipes must be factory lined with PE or manufactured with approved additives and a sacrificial layer to achieve durability requirements. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval Shall only be installed on gravity pipelines. 		✓	✓

Product	Notes	WS	WW	SW
Hynds Hyspec Spun pipe	<ul style="list-style-type: none"> Rubber-ring jointed and Class 2 minimum Will not typically be permitted for drains 375 mm and smaller for use in the wastewater network When used for wastewater, pipes must be factory lined with PE or manufactured with approved additives and a sacrificial layer to achieve durability requirements. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval Shall only be installed on gravity pipelines. 		✓	✓
Hynds Pinnacle pipe and pre-lubricated sliding rubber rings	<ul style="list-style-type: none"> EPDM 40 rubber-ring jointed Approval is valid for the following products: <ul style="list-style-type: none"> Belled socket joint, Class 2: DN 675 – 1350, DN 1650 Belled socket joint, Class 4: DN 675 – 825, DN 1050 – 1350, DN 1650 In-wall joint, Class 2 and 4: DN 1950, 2100, 2550 Forsheda 146 pre-lubricated sliding rubber rings (EPDM 40 only) When used for wastewater, pipes must be factory lined with PE or manufactured with approved additives and a sacrificial layer to achieve durability requirements. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval. Shall only be installed on gravity pipelines. 		✓	✓
Hynds PinnacleX	<ul style="list-style-type: none"> DN525, DN600, DN675 and DN750 to meet Class 2 and Class 4 When used for wastewater, pipes must be factory lined with PE or manufactured with approved additives and a sacrificial layer to achieve durability requirements. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval. Shall only be installed on gravity pipelines. 		✓	✓
Elepipe RC RRJ Pipe	<ul style="list-style-type: none"> DN225 – DN1600 only Rubber-ring jointed and Class 2 minimum. Shall not be installed in marine environments (as defined in AS/NZS 4058) without prior written approval. Shall only be installed on gravity pipelines. 			✓

2.8. Profiled polyethylene and polypropylene pipes

Note: Profiled polyethylene and polypropylene pipes must be rubber-ring jointed and SN16 minimum.

Product	Notes		WS	WW	SW
CivilBoss Twin Wall Polypropylene Pipe	<ul style="list-style-type: none"> Pipes must not be used for pressure application. Nominal diameters in the range DN 225 to 450 only. Must be installed by personnel trained to avoid shallow sockets resulting in joints "squeezing" out during installation. Post installation connections must be installed using Fernco QwikSeals. Pipelines must be designed and installed in accordance with AS/NZS 2566, the Regional Specification for Water Services, and the manufacturer's instructions. 				✓
PKS Civil Pipe Spiral Wound PE100	<ul style="list-style-type: none"> Pipes must not be used for pressure applications. Nominal diameters in the range DN600 to DN1200 only. Must be installed by personnel trained to avoid shallow sockets resulting in joints "squeezing" out during installation. Post installation connections must be installed using Fernco QwikSeals. Pipelines must be designed and installed in accordance with AS/NZS 2566, the Regional Specification for Water Services, and the manufacturer's instructions. 				✓

3. Fittings, Couplings & Connectors


3.1. Polyethylene electrofusion fittings


Compliant with AS/NZS 4129 for pressure pipelines.

Product	Notes	WS	WW	SW
Frialen		✓	✓	✓
Plasson		✓	✓	✓
Agru		✓	✓	✓
Georg Fischer		✓	✓	✓
Fusion Group	PE100 SDR11 fittings DN355 or smaller.	✓	✓	✓

3.2. Full faced reducing stub flanges

Compliant to AS/NZS 4087.

Product	Notes	Photo
Simona PE100 HSCR injection moulded full faced flange with SS 316 backing ring	<ul style="list-style-type: none"> Not for use in water or wastewater pumpstations. Maximum size DN225. To be used with electrofusion or butt fusion welding. 	
Solo Plastics PE1226.250.200 Full Face Slim Flange PN16 SDR11 With Nylon Backing Ring	<ul style="list-style-type: none"> Not for use in water or wastewater pumpstations. Not for use in the bulk water network. Maximum size DN250. To be used with electrofusion or butt fusion welding. 	

Product	Notes	Photo
Plasson PE100 HSCR Injection Moulded Full Face Flange with Stainless Steel 316 Backing Ring	<ul style="list-style-type: none"> • Not for use in water or wastewater pumpstations. • Not for use in the bulk water network. • Maximum size DN375. • To be used with electrofusion or butt fusion welding. 	

3.3. Polyethylene compression fittings – Repair Only

Compliant to AS/NZS 4129.

Compression fittings shall only be used for the repair of pipelines.

See also Mechanical Couplings for fittings for larger diameter PE.

Product	Notes	Photo
Talbot Pushfit	<ul style="list-style-type: none"> • For use on PE80b (MDPE) only • To be used with inserts 	
Philmac Metric	<ul style="list-style-type: none"> • For use on PE80b and PE100 • To be used with inserts 	
Plassim	<ul style="list-style-type: none"> • For use on PE80b (MDPE) only • To be used with inserts 	
Plasson "Series One"	<ul style="list-style-type: none"> • For use on PE80b and PE100 • To be used with inserts 	
Hansen "Easy Fit"	<ul style="list-style-type: none"> • For use on PE80b and PE100 • To be used with inserts 	





3.4 Mechanical couplings







Compliant with AS/NZS 4998 up to 750 mm pipes, or with ANSI/AWWA C219/06 for larger pipelines

All installed mechanical couplings shall be protected using the full Denso system (primer, mastic, petrolatum tape and PVC outer wrap) if buried.

Only to be used for transition joints from new to existing mains where non-mechanical joints are not practicable, and for repairs.

Not to be used as a standard pipe jointing method on new pipelines.






Product	Notes	Photo
Viking Johnson range	<ul style="list-style-type: none"> Includes flange adapters and straight couplers. PN16 minimum. 	
Viking Johnson UltraGrip	<ul style="list-style-type: none"> PE restraint fittings to be used with pipe inserts. PN16 minimum 	
AVK Supacoupler range	<ul style="list-style-type: none"> Includes flange adapters and straight couplers. PN16 minimum. 	
AVK Supa Plus	<ul style="list-style-type: none"> PE restraint fittings to be used with pipe inserts. PN16 minimum. 	

Product	Notes	Photo
Tyco Vari-Gib	<ul style="list-style-type: none"> Includes flange adapters and straight couplers. PN16 minimum. 	
HIWA	<ul style="list-style-type: none"> Bolted unrestrained mechanical coupler (Product Code FC10-A only). DN80 to DN300. PN16. Ductile iron. Flange adapter (Product Code FA10-A only). DN80 to DN300. PN16. Ductile iron. 	
Georg Fischer Waga Multi/Joint 3000 Plus	<ul style="list-style-type: none"> PE restraint fittings to be used with pipe inserts. PN16 minimum. 	
Hawle System 2000	<ul style="list-style-type: none"> PE restraint fittings to be used with pipe inserts. PN16 minimum. 	
Hawle Synoflex	<ul style="list-style-type: none"> PE restraint fittings to be used with pipe inserts. PN16 minimum. 	
Nova Siria Multigrip	<ul style="list-style-type: none"> PE restraint fittings to be used with pipe inserts. PN16 minimum. 	



3.5 Dismantling joints

All installed dismantling joints shall be protected using the full Denso system (primer, mastic, petrolatum tape and PVC outer wrap) if buried.

Ductile iron or steel and coated to AS/NZS 4158 or AS/NZS 3862.



Product	Notes	Photo
Viking Johnson	PN16 minimum.	
AVK Dismantling Joint	PN16 minimum.	
Hawle Vario	<ul style="list-style-type: none"> • PN16 minimum. • Not to be used for seismic flexibility. 	
HIWA Ductile Iron Dismantling Joint FD10	<ul style="list-style-type: none"> • PN16 minimum. • DN80 to DN300 only. 	
HIWA Ductile Iron Dismantling Joint FD20	<ul style="list-style-type: none"> • PN16 minimum. • DN80 to DN300 only. 	


3.6 Flanged flexible joints

Product	Notes	Photo
Flex-tend	These fittings require special design with consideration towards unbalanced thrust and initiating forces	
Saint Gobain PAM Geoflex	These fittings require special design with consideration towards unbalanced thrust and initiating forces	



3.7 Mechanical tapping bands for water connections

Shall be made from LG2 gunmetal, aluminium bronze, stainless steel or fusion bonded epoxy coated ductile iron and shall be of a two part fully encircling design.


Product	Notes	Photo
Plasson PN16 mechanical tapping saddle (PE80b)	For use 63OD pipe and smaller	
RX Fittings (for PE pipe only)	For use 63OD pipe and smaller	

Product	Notes	Photo
Promains Hermetica SS Permanent Repair Clamp 380 mm clamp with tapping offtake	<ul style="list-style-type: none"> Not for use on welded bulk mains. <u>Use clamp with PN rating greater than or equal to pipe PN rating.</u> <u>Use imported granular fill around the clamped section of pipe</u> 	

3.8 Repair clamps

Product	Notes	Photo
Promains Hermetica SS Permanent Repair Clamp 200 mm wide clamp	<ul style="list-style-type: none"> For use on pipes \leq DN150 with cracks or holes \leq40 mm. Use clamp with PN rating greater than or equal to pipe PN rating. Use imported granular fill around the clamped section of pipe 	
Promains Hermetica SS Permanent Repair Clamp 380 mm wide clamp	<ul style="list-style-type: none"> For use on pipes $>$ DN150 with cracks or holes less than 40 mm. Use clamp with PN rating greater than or equal to pipe PN rating. Use imported granular fill around the clamped section of pipe Not for use on welded bulk mains. 	

3.9 Other Connectors




Product	Notes	Photo	WS	WW	SW
Fernco QwikSeal	Only to be used in non-pressure applications for lateral connections to gravity pipes.			✓	✓s





4. Valves

4.1. Gate valves – Resilient seated

4.1.1. DN80 and larger

Compliant with AS/NZS 2638.2.


Product	Notes	Photo	WS	WW	SW
AVK series 57	<ul style="list-style-type: none"> • ≥ 80 mm nominal diameter. • Anti-clockwise closing. 		✓		
Hawle E2	<ul style="list-style-type: none"> • ≥ 80 mm nominal diameter. • Anti-clockwise closing. 		✓		
Hawle E3 Resilient Seated Gate Valves	<ul style="list-style-type: none"> • DN80-DN300. • For use in water supply network only. • Anti-clockwise closing. 		✓		

Product	Notes	Photo	WS	WW	SW
Sureflow Figure 500	<ul style="list-style-type: none"> • ≥ 80 mm nominal diameter. • Anti-clockwise closing. 		✓		
Sufa / Maxiflo	<ul style="list-style-type: none"> • ≥ 80 mm nominal diameter. • Anti-clockwise closing. 		✓		
Derwent (P&I)	<ul style="list-style-type: none"> • ≥ 80 mm nominal diameter. • Anti-clockwise closing. 		✓		
HIWA Z1711EM & DGZ1711EM (<ul style="list-style-type: none"> • DN80 to DN300. • Anti-clockwise closing. • Fusion bonded epoxy (FBE) coated Ductile Iron. • PN16. • For use in water supply network only. 		✓		

4.1.2. DN80 and smaller



Product	Notes	Photo	WS	WW	SW
Hawle E3 Resilient Seated Gate Valves	<ul style="list-style-type: none"> DN50-DN80 Clockwise closing. 		✓		
Hawle RS service valve	<ul style="list-style-type: none"> 50 mm Clockwise closing with hand-wheel. 		✓		
AVK Series 57 service valve	<ul style="list-style-type: none"> 50 mm Clockwise closing with hand-wheel. 		✓		

4.1.3. Repair Only



Product	Notes	
Daepoong S-Gate Valves	<ul style="list-style-type: none"> Anti-clockwise closing. Nominal diameter sizes DN100, DN150, DN200, and DN250. To be used on ductile iron, cast iron and asbestos cement (requires risk assessment) pipes only. For water supply and pressure sewer applications only. May only be used for repair work or temporary work, on an existing pipe in service, and where the cut-in of a traditional gate valve will result in an unacceptable service interruption as determined by Wellington Water's Network Controller. Installation by fully trained personnel approved by CNS Engineering only. Requires special consideration of socket pull-out of the pipe and valve due to differential thrust from the valve. 	

4.2. Check valves

Compliant with AS 4794.




Product	Notes	Photo	WS	WW	SW
AVK Swing Check	For mains 80 mm and above (water supply only).		✓		
Valmatic Surgebuster	For pressure applications on wastewater, stormwater or water supply.		✓	✓	✓

4.3. Globe control valves – Pressure reducing, sustaining and relief valves

Product	Notes				
Bermad			✓		
Cla-Val			✓		

4.4. Service valves (Tobies) and manifolds

Also see Section 6.4 Surface Boxes.

Product	Notes	
Acuflo DR Brass Manifold (20 mm NB)	GM900 with dual-check valve.	
Acuflo Composite Manifold (20 mm NB)	May be used ONLY when metallic manifolds are not available.	
Acuflo DR brass diaphragm valve (20 mm NB)	Must be installed with downstream approved dual-check valve.	
Gate valves (see Section 4.1)	Can also be used as service valves with larger services > 20 mm.	



4.5. Backflow prevention devices

Compliant with 2845.1.


Product	Notes
Wilkins-Zurn	Type to be determined in conjunction with activity hazard class.
Watts	
Febco	
Pentair-ValCheQ	

4.6. Hydrants

Compliant with 4522.






Product	Notes	Photo
Gillies Metaltech Hydrant	<ul style="list-style-type: none">• Clockwise closing• A non-rising spindle• Without frost plugs	
AVK	<ul style="list-style-type: none">• Clockwise closing• A non-rising spindle• Without frost plugs	



4.7. Other valves

Product	Notes	Photo
Mainscock – Tita gunmetal in-line ball valve	Used mostly when tapping under pressure.	

5. Water Meters

Compliant with the requirements of OIML R49. Also see Section 6.4 Surface Boxes.





Product	Notes	Photo
Sensus 640 (based on Deeco 620 with automated meter reading)	<ul style="list-style-type: none"> Service connections DN 20 or less only. Requires removal for calibration every 10 years. Requires supporting systems for automated meter reading. 	
Sensus iPerL inline meter (based on Deeco 620 with smart meter reading)	<ul style="list-style-type: none"> Service connections DN 40 or less only. Requires supporting systems for smart meter reading. 	
Sensus (formerly Socam and Meinecke)	<ul style="list-style-type: none"> 620B/C/MB/MC (min. R160). Meitwin combination meters. Sensus Meistream Plus "Class C" min. R315 DN50 to DN80 only. 	
Itron (formerly Actaris and Neptune)	<ul style="list-style-type: none"> In-line meters only. 	
Sappel (Diehl)	<ul style="list-style-type: none"> In-line and manifold meters. 	



Product	Notes	Photo
Elster-Kent	<ul style="list-style-type: none">• In-line and manifold type meters.• Combination meters.• H5000 Woltmann (extended version – R1250).	
ABB Watermaster	<ul style="list-style-type: none">• Magnetic flow meter.• Can be used for wastewater also if full bore flow is continuously maintained such as within pumping stations.	

6. Manholes and Streetware

6.1. Manhole covers

Compliant with AS 3996 Class D minimum.

Product	Notes		WS	WW	SW
WCC Patterned "Maestro" Class E ductile iron AS 3996	<ul style="list-style-type: none"> Hinged To be used in Wellington City only 			✓	✓
HCP ductile iron hinged frame and centre WCC Pattern (EN124)	<ul style="list-style-type: none"> Hinged To be used in Wellington City only 			✓	✓
"Maestro" Class E ductile iron (standard pattern)	<ul style="list-style-type: none"> Hinged To be used outside of Wellington city 			✓	✓
HCP ductile iron hinged frame and centre Standard Pattern (EN124 D400)	<ul style="list-style-type: none"> Hinged To be used outside of Wellington city 			✓	✓


Product	Notes		WS	WW	SW
Humes Ductile Iron Hinged Manhole Cover Set - 80082098	<ul style="list-style-type: none"> Hinged To be used outside of Wellington city 			✓	✓
Pamrex 600 D400 Manhole Frame and Cover	<ul style="list-style-type: none"> Hinged Not for use in airports and loading yards In Wellington City must be stamped with the WCC Pattern Other Councils: Use standard pattern 			✓	✓


6.2. Manhole safety grilles

Compliant with AS 3996 Class A.

Constructed from stainless steel 316L grade or an approved alternative material with adequate strength and corrosion properties.

The maximum opening size of any section of the grille fit and surface shall not pass a sphere larger than 150mm diameter.

Product	Notes	Photo
Impact Engineering – Maestro	Fits Maestro	
Impact Engineering - Hygrade HD	Fits Hygrade HD 485mm (not for new lids, retrofit only)	
Impact Engineering - Hygrade LD	Fits Hygrade LD 510mm (not for new lids, retrofit only)	
Impact Engineering – Pamrex 600	Fits Pamrex 600	
T & T Bennett - MSG610S/S	Fits Maestro	N/A
T & T Bennet - 48503	Fit Humes lids 460mm opening (not for new lids, retrofit only)	N/A

Product	Notes	Photo
Calibre - CSG600SSM	Fits Maestro lids	

6.3. Prefabricated manholes systems

Manholes shall be constructed in pre-cast reinforced concrete.

Product	Notes	WS	WW	SW
Hutt Concrete Products Twin Lake [®] Concrete Manhole System	<ul style="list-style-type: none"> Approved for Trial use only. Use should include monitoring and reporting on condition. 		✓	✓
Hynds - Pinnacle Manhole	Approval includes PE encapsulated galvanised iron step system.		✓	✓
Hynds - PERFECT Manhole System	<ul style="list-style-type: none"> Can only be used on storm water network. Manholes shall not be installed on PE pipelines. 			✓
Hynds - Hyspec Manhole System			✓	✓
Elepipe Manhole System	DN1050 – DN1800 only.		✓	✓
Humes - Concrete Manhole Systems			✓	✓

Product	Notes	WS	WW	SW

6.4. Surface boxes

For service pipe valves and manifolds - Compliant with AS 3996 Class B when located in the berm, footpath or driveway with appropriate concrete surround, and Class D in the carriageway.

For area or district area meters, valves and hydrants - Compliant with AS 3996 Class D.

Product	Notes	
Channell HDPE bulk pits	<ul style="list-style-type: none"> Must not be installed in road carriageway. Lid must meet the slip resistance requirements of the NZ Building Code Section D2.1.2 Slip Resistance. Lid must have blue "Water" coded insert, when used on used on drinking water distribution network. 	