



Approved Products and Manufacturers

Sewer Network

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DOCUMENT CONTROL

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REVISION HISTORY

Issue	Clause / Product Group	Amendment	Comments
3.3 – December 2017	4.4 PE Fittings	Product added: Daemco Xcel DN63 to DN315 Restrained Joint Couplings and DN63 to DN225 Flange Adapters for PE pipe (PN16)	
	4.3 Mechanical Couplings	Product added: Daemco 316 Stainless Steel Repair Clamps DN80 to DN300, PN16, Type F and R	
	4.3 Mechanical Couplings	Product added: Daemco Non-End Thrust Restraint Mechanical Couplings, long and short barrel, DN80 to DN600, PN16	
	2.1 Access Covers	Product added: SAKU Polypropylene Access Cover	
3.2 - July 2017	2.0 Maintenance Structures	Changed 2.4 to be Terminal Maintenance Structures	
	2.0 Maintenance Structures	Changed 2.5 to be Maintenance Chambers	
	2.5 Maintenance Chambers	Product added: Mini Pit Maintenance Chamber including Polyethylene (PE) DN600	
	2.5 Maintenance Chambers	Product added: Axedo DN600 Maintenance Chamber including Injected Moulded Polypropylene (PP)	
3.1 January 2017	4.4 PE Fittings	Product added: Fusion Group EF Fittings DN20 to DN630	
	5.3 GRP Pipe	Product added: Clover Pipelines GRP Pipe	
	6.2 GRP Pipe	Product added: Clover Pipelines GRP Pipe	
	9.2 Gate Valve	Product added: Daemco Australia RSGV DN80 to DN300	
3.0 – December 2016	Entire document	'Distributor' column added to table with associated changes	

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		made	
	3.4 PVC-U Fittings	Product added: Australian Plastic Profiles PVC-U DWV Fittings	
	5.6 PVC-U Pipe	Product added: Australian Plastic Profiles PVC-U DWV Pipe	
	4.4 PE Fittings	Product added: Friatec Ag Electrofusion Fittings	
	6.1 DI Pipe – Pressure	Product added: Suns Pipeline Co. DI Pressure Pipe	
2.9 – August 2016	2.3 Ladder	Removed mono rail ladder	Ladders to comply with AS 1657-2013
2.8 – May 2016	5.1 Ductile Iron Pipe	Product added: ZINALIUM / red synthetic coating, HAC lining INTEGRAL (DN 100 – DN 750) - PN 20, PN 35 and Flange Class.	
2.7 – March 2016	9.2 Gate Valve	Product added: Derwent Industries RSGV – DN80 to DN600	
	9.2 Gate Valve	Product added: Clover Pipelines RSGV	
	3.1 DI Fittings – Gravity	Product added: Galvin Engineering DI Fittings DN100-300 Gravity Polymer Lining	
	4.1 DI Fittings - Pressure	Product added: Galvin Engineering DI Fittings DN100-300 Pressure Polymer Lining	
	3.1 DI Fittings – Gravity	Product removed: Galvin Engineering DI Fittings DN100-150 Gravity Cement Lined	Supplier/Manufacturer advised the product is no longer produced
	4.1 DI Fittings – Pressure	Product removed: Galvin Engineering DI Fittings DN100-150 Pressure Cement Lined	Supplier/Manufacturer advised the product is no longer produced
	5.7 Steel Pipe – Gravity	Product added: Pipe Lining & Coating Fusionkote DN100-3600 FBMDPE	
	6.6 Steel Pipe – Pressure	Product added: Pipe Lining & Coating Fusionkote DN100-3600 FBMDPE	
2.6 – August 2015	All	Pentair was Tyco	
	9.2 Gate Valve	Addition of Auslite II RSGV – DN100 to DN300	
	6.5 PVC-O Pipe	Addition of Pipemakers Australia (Supplier: Clover Pipelines) PVC-	

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		O Pipe DN100-DN375 PN12	
	5.4 PE Pipe	Cromford Pipe – Identipipe - Change sizes to DN20-DN800	
2.5 – October 2013	GRP Pipe	Add Promains	
	GRP Fittings	Add Promains	
	PVC-U Pipe and Fittings	Add Pipemakers	
	PE Pipe – Pressure	Add Tyco	
	Ventilation	Bonnels Supplies changed to International Poles	Supplier/ Manufacturer Name Change
2.4 - December 2011	DI Fittings	Product added: Derwent Industries DI Fittings DN100-750 PN35	New product /supplier
	PVC-O	Product added: Tyco Water Opti-flo PVC-O pipe, PN16 DN100-150	New product /supplier
2.3 - July 2011	Maintenance Shaft	Product Amended: SMS Maintenance Shaft Product Range Extended to DN225	Product range change
2.2 - September 2010	Ductile Iron Pipe	Product added: Vinidex / Saint Gobain Ductile Iron Pipe DN100-DN750	New product /supplier
	Gate Valves	Product added: Karon (Challenger) Resilient Seated Gate Valves	New product /supplier
	PVC-U Gravity Fittings	Product added: Tyco Alphacan DWV Fittings	New product /supplier
2.1 - May 2010	All	Document Revision	Update of supplier / manufacturer names and product details

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1. Introduction

This document lists products authorised by Hunter Water for use in the Hunter Water systems, together with the names of manufacturers of the approved product. Information on suppliers of the products should be obtained directly from the manufacturers.

The document is intended to be read in conjunction with:

- (i) The project technical specification and design drawings
- (ii) Hunter Water Design and Construction Standards, including the WSA02 Sewerage Code (HW Version), WS03 Water Supply Code (HW Version), the Hunter Water Design Manual, Standard Technical Specifications and Hunter Water Standard Construction Practice Drawings.
- (iii) The Water Services Association of Australia (WSAA) Product Specifications Hunter Water Version

Further information and copies of Hunter Water Design Standards are available on the Hunter Water website:

<http://www.hunterwater.com.au/Building-and-Development/Drawings-Plans-Specifications/>

Further information on the process for product authorisation and the current copy of this document is available on the Hunter Water website:

<http://www.hunterwater.com.au/Building-and-Development/Approved-Designers-Suppliers-and-Contractors/Approved-Products-and-Manufacturers.aspx>

General background information on products and materials is also available on the WSAA website (www.wsaa.asn.au). Not all products and materials appraised by WSAA are approved for use in the Hunter Water systems. HWC undertakes an independent assessment of the suitability of each product with HWC infrastructure, requirements and policies.

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2. Maintenance Structures

2.1. Access Cover

Specifications

WSA PS-292 Access Covers
WSA PS-291 Access Covers for Water Supply

Non-Trafficable (Class B)

Manufacturer	Distributor	Description
<i>ACO Pty Ltd</i>	<i>ACO Pty Ltd</i>	SAKU Polypropylene Access Cover (Class B only) & DI Frame and Riser (make-up) Rings
<i>Gatic Milnes</i>	<i>Gatic Milnes</i>	Access cover (2part) 225 dia., locked invert, DI. For use with gate valve chamber.
<i>Gatic Milnes</i>	<i>Gatic Milnes</i>	DI (two part) 900 * 900. For use with scour chamber.
<i>Rocla Pipeline Products</i>	<i>Rocla Pipeline Products</i>	DI "Gatic" cover and frame with precast concrete surround Class B (non-trafficable).

Trafficable (Class D)

Manufacturer	Distributor	Description
<i>Gatic Milnes</i>	<i>Gatic Milnes</i>	DI (sealed watertight type) DN600.
Weifang Weikai Casting Ltd.	<i>ACO Polycrete</i>	Rhinocast DN600 (Circular) DI access cover and grey iron framed seal; solid top; Class B (non-trafficable ACO PN 85134) & Class D (trafficable – ACO PN 89148).

2.2. Component

Specifications

WSA PS-323 Maintenance Holes – Precast Concrete

Notes

Pre-cast access components – shaft sections, tapers, squat cones, conversion slabs, make-up rings, covers and surrounds.

Pre-Cast Concrete

Manufacturer	Distributor	Description
<i>CSR Humes</i>	<i>CSR Humes</i>	Precast concrete access chamber components.
<i>Icon Industries</i>	<i>Icon Industries</i>	Precast concrete access chamber components.
<i>Beresford Concrete Products</i>	<i>Beresford Concrete Products</i>	Precast concrete access chamber components.

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<i>Rocla Pipeline Products</i>	Rocla Pipeline Products	Precast concrete access chamber components.
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Polyethylene

Manufacturer	Distributor	Description
<i>Smartstream Technologies</i>	<i>Smartstream Technologies</i>	Maintenance hole (manhole), DN1050, PE, "SmartPit", for DN150 and DN225 gravity sewer installations.

2.3. Ladder

Specifications	WSA 108 Fibre reinforced plastic ladders WSA PS 315 Fixed Ladders WSA PS 316 Ladders, Stainless Steel WSA PS 317 Ladders, Hot Dipped Galvanised WSA PS-314 Steps for Underground Man Entry WSA PS-328 Step Irons, Galvanised Ferrous or Stainless Steel
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2.4. Terminal Maintenance Shafts

Specifications	WSA PS 321 Terminal Maintenance Shafts PVC-U WSA PS 322 Terminal Maintenance Shafts PE
Notes	As per Hunter Water WSA 02 code, maintenance shafts are permitted at terminal end only.

Manufacturer	Distributor	Description
<i>Aymroo</i>	Aymroo	Fabricated PVC Terminal Maintenance Shafts.
<i>BT Bautechnik Impex GmbH & Co KG</i>	<i>Sewer Maintenance Shaft</i>	SMS Moulded polypropylene (PP) base installed as Terminal Maintenance Shafts, in line model and 3-way model (with one inlet plug maximum of 2 inlet connections) with push on riser cap; for DN150 and DN225 gravity sewer installations.
<i>Smartstream Technologies</i>	<i>Smartstream Technologies</i>	PooPit installed as Terminal Maintenance Shafts, PE MS with push on riser cap, for DN150 and DN225 gravity sewer installations.

2.5. Maintenance Chambers

Specifications	WSA PS 327 Maintenance Chamber (MC) - PP WSA PS 338 Maintenance Chamber (MC) – PE WSA PS 331 Maintenance Chamber (MC) – Pre Cast Concrete
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Notes	As per Hunter Water WSA 02 code, only DN600 maintenance chambers are permitted as intermediate structure between maintenance holes.
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Manufacturer	Distributor	Description
<i>Smartstream Technologies</i>	<i>Smartstream Technologies</i>	Mini Pit Maintenance Chamber including Polyethylene (PE) DN600 Base Unit and DN600 riser shaft with approved inflow arrangements as per WSA 137.
<i>BT Bautechnik Impex GmbH & Co KG</i>	<i>Sewer Maintenance Shaft</i>	Axedo DN600 Maintenance Chamber including Injected Moulded Polypropylene (PP) Base Unit (Channel Size DN225 only) – DN600 Vinidex Storm-Pro PP Riser Pipe – Rotary Moulded Polyethylene (PE). Riser Cap with Lockable Lid – Class ‘B’ or ‘D’ 600mm Clear Opening Ductile Iron (DI) Cover and Frame.

2.6. Mastic strip

Manufacturer	Distributor	Description
<i>Beresford Concrete Products</i>	Beresford Concrete Products	Butyl mastic jointing strip for access chamber components.
<i>CSR Humes</i>	CSR Humes	Butyl mastic jointing strip for access chamber components.
<i>Icon Industries</i>	Icon Industries	Butyl mastic jointing strip for access chamber components.
<i>Rocla Pipeline Products</i>	Rocla Pipeline Products	Butyl mastic jointing strip for access chamber components.

2.7. Seal

Manufacturer	Distributor	Description
<i>C-Tech Rubber</i>	C-Tech Rubber	Rubber ring for access chamber components.

3. Fittings Gravity

3.1. Ductile Iron Fittings

Specifications | WSA PS 239 Ductile Iron Fittings for Gravity Sewers

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	WSA PS 212 Ductile Iron Fittings for Plastics Pipe for Water Supply and Sewerage
Notes	All polymer coatings are thermal/fusion bonded polymeric (inc. epoxy) coatings unless otherwise noted.

Calcium Aluminate Cement Lining (Sulphate Resisting)

Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	Bends, caps, connectors, plugs and junctions.

Fusion Bonded Polymer Lining

Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	Auslite DI fittings, bends and tees, DN100 and DN150, polymer coating.
<i>Mallet Foundry</i>	<i>Mallet Enterprises</i>	Bends, tees, tapers, connectors, hydrant tees, scours, DN100 to 750, polymer coating.
<i>Crevet Pipelines</i>	Crevet Pipelines	Bends, caps, connectors, plugs and junctions.
<i>Galvin Engineering</i>	Himgiri Castings Pty Ltd	DN100 to DN300 Bends, connectors, tees, adaptors and risers with polymeric coating.

3.2. GRP Fittings

Specifications

WSA PS 237 Glass Reinforced Plastic (GRP) Non-Pressure Fittings

Manufacturer	Distributor	Description
<i>Fibrelogic Pipe Systems</i>	Fibrelogic Pipe Systems	GRP pipe fittings – connectors, couplings.

3.3. Mechanical Coupling

Specifications

WSA PS 235 Couplings, Metal-Banded Flexible, Non-

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Pressure

Manufacturer	Distributor	Description
<i>Crevet Pipelines</i>	Crevet Pipelines	Gibaults – MultGib.
<i>Pentair Water</i>	Pentair Water	Wang Vari-Gib Couplings, DN 150 to 600.

3.4. PVC-U Fittings

Specifications

WSA PS 230 Polyvinylchloride, Unplasticised (PVC-U) Non-Pressure Pipe and Fittings
 WSA PS 236 Variable Bend, Post-Formed PVC-U Non-Pressure Fittings

Manufacturer	Distributor	Description
<i>Vinidex</i>	Vinidex	PVC-U pipe fittings – connectors, adaptors, bends, caps, junctions, plugs.
<i>Aymroo</i>	Aymroo	PVC-U pipe fittings – connectors, adaptors, bends, caps, junctions, plugs.
<i>Iplex Pipelines</i>	Iplex Pipelines	PVC-U pipe fittings – connectors, adaptors, bends, caps, junctions, plugs.
<i>Pentair Water</i>		Aplhacan Omniplast DWV PVC-U Fittings DN150-375, SN8.
<i>Australian Plastic Profiles – Pipe King</i>	<i>Australian Plastic Profiles – Pipe King</i>	Fittings Gravity – PVC-U Fittings – connectors, adaptors, bends, caps, junctions, inspection pieces, tapers.

4. Fittings Pressure

4.1. Ductile Iron Fittings

Specifications

WSA PS 201 Ductile Iron Fittings for Water Supply and Sewerage
 WSA PS 272 Fittings, End Thrust Restraint

Notes

All polymer coatings are thermal/fusion bonded polymeric or epoxy coatings unless otherwise noted.

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Cement Lining

Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	Bends, tees, tapers.

Polymer Lining

Manufacturer	Distributor	Description
<i>Vinidex</i>	Vinidex	Bends, tees, tapers, connectors, deep socketed, DN100 to DN200.
<i>Pentair Water</i>	Pentair Water	Auslite DI fittings, bends and tees, DN100 and DN150.
<i>Mallet Foundry</i>	<i>Mallet Enterprises</i>	Bends, tees, tapers, connectors, hydrant tees, scours, DN100 to DN750.
<i>Dobbie Dico</i>	<i>Icon Septech</i>	Polymer lined bends, tees, tapers, hydrant risers, scour tees, connectors, caps; sizes DN80 to DN250.
<i>Crevet Pipelines</i>	Crevet Pipelines	Bends, tees, tapers.
Derwent Foundry	<i>Derwent Industries</i>	Ductile Iron Fittings DN100-750 PN35.
Himgiri Castings Pty Ltd	<i>Galvin Engineering</i>	DN100 to DN300 Bends, connectors, tees, adaptors and risers with polymeric coating.

4.2. GRP Fittings

Specifications

WSA PS 206 Glass Reinforced Plastic (GRP) Fittings for Water Supply

WSA PS 206S Glass Reinforced Plastic (GRP) Fittings for Sewerage

Manufacturer	Distributor	Description
<i>Fibrelogic Pipe Systems</i>	Fibrelogic Pipe Systems	Couplings, bends, joints, tees, valves, tapers.
<i>Promians</i>	Promians	GRP pipe DN300 to DN750 AS2280 DI compatible sizes only. Project specific approval required for larger sizes. Type ECR glass only. Filament Wound manufacture only – Not approved for continuous cast products.

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4.3. Mechanical Couplings

Specifications

WSA 105 Unrestrained mechanical couplings
 WSA PS-271 Couplings, End Thrust Restraint
 WSA PS-270 Mechanical Couplings, Non-End Thrust Restraint
 WSA PS-311 Mechanical Couplings, Unrestrained

Unrestrained

Manufacturer	Distributor	Description
<i>Daemco Australia Pty Ltd</i>	<i>Daemco Australia Pty Ltd</i>	316 Stainless Steel Repair Clamps DN80 to DN300, PN16, Type F and R
<i>Daemco Australia Pty Ltd</i>	<i>Daemco Australia Pty Ltd</i>	Non-End Thrust Restraint Mechanical Couplings, long and short barrel, DN80 to DN600, PN16
<i>Pentair Water</i>	Pentair Water	Wang Vari-Gib couplings, DN 40 to 600.
<i>Crevet Pipelines</i>	Crevet Pipelines	Gibaults – MultGib.
<i>Pentair Water</i>	Pentair Water	Ezigib mechanical coupling, long and short barrel, DN100 to 200, DI with polymer lining.

4.4. PE Fittings

Specifications

WSA PS-208 Polyethylene (PE) Pressure Fittings for Water Supply and Sewerage
 WSA PS 216 Polyethylene (PE) Fittings for Water Supply and Sewerage Fabricated

Notes

See PE Pipe Notes for guidance on approved usage

Manufacturer	Distributor	Description
<i>Daemco Australia Pty Ltd</i>	<i>Daemco Australia Pty Ltd</i>	Daemco Xcel DN63 to DN315 Restrained Joint Couplings and DN63 to DN225 Flange Adapters for PE pipe (PN16)
<i>Plasson</i>	Vinidex	Electrofusion Fittings, DN40 to 125, PN 16.
<i>Georg Fischer (Inc. Iplex Pipelines)</i>	<i>Georg Fischer</i>	Electrofusion pipe fittings PN16, mechanical fittings ≤ DN63 PN16.
<i>Friatex Ag</i>	Vinidex	Electrofusion fittings, DN20 to DN630, PN16.
<i>Fusion Group</i>	<i>Fusion Group</i>	Electrofusion fittings, DN20 to DN630, PN16.

4.5. Polypropylene Coupling

Specifications

WSA 105 Unrestrained mechanical couplings

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Manufacturer	Distributor	Description
<i>Viking Johnson</i>	<i>Philmac</i>	Maxfit Coupling, Polypropylene. DN40 to 125.
<i>Vinidex</i>	<i>Vinidex</i>	Coupling, Polypropylene. DN40 to 125.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	Coupling, Polypropylene. DN40 to 125.

4.6. Restraining Joint

Specifications

WSA PS 270 Mechanical Couplings, Non-End Thrust Restraint
 WSA PS 271 Couplings, End Thrust Restraint
 WSA PS 272 Fittings, End Thrust Restraint

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	TYTON-LOK gasket with SS locking segments.

4.7. Steel Spigot Band

Specifications

WSA PS 204 Steel Fittings for Water Supply and Sewerage

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	Spigot band (to join SCL to DICL RRJ sockets), Steel. DN100 to 750.

4.8. Steel Welding Collar

Specifications

WSA PS 204 Steel Fittings for Water Supply and Sewerage

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	MS Welding collars, < DN900x150w DN900 - 1200x200w.

5. Pipeline Systems Gravity

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5.1. Concrete Pipe

Specifications	WSA 113 Reinforced concrete pipes with flexible thermoplastic lining
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Manufacturer	Distributor	Description
<i>CSR Humes</i>	CSR Humes	Pipe, PVC lined, CL 3 & 4 DN600/750.
<i>Rocla Pipeline Products</i>	Rocla Pipeline Products	Splay pipes, PVC lined, DN600/750.
<i>Rocla Pipeline Products</i>	Rocla Pipeline Products	Pipe, PVC lined, CL 3 & 4 DN600/750.
<i>CSR Humes</i>	CSR Humes	Splay pipes, PVC lined, DN600/750.
<i>CSR Humes</i>	CSR Humes	Encasing pipe (butt jointed with steel locating band), CL 4. DN1200.
<i>Rocla Pipeline Products</i>	Rocla Pipeline Products	Encasing pipe (butt jointed with steel locating band), CL 4. DN1200.

5.2. Ductile Iron Pipe

Specifications	WSA PS 234 Ductile Iron Pipe for Gravity Sewers WSA PS 320 Sleeving, Polyethylene for Ductile Iron Pipe and Fittings
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Notes	Standard Gravity Sewer Sizes (DN)–150, 225, 300, 375, 450, 600, 750
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Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	Tyton 2100 series TYTONXTREME pipe, calcium aluminate cement mortar lining, DN100 to 750, PN 35.
<i>Saint Gobain</i>	<i>Vinidex</i>	PAM Integral PN35 DN100-750, internally cement lined (calcium aluminate).

5.3. GRP Pipe

Specifications	WSA PS 232 Glass Reinforced Plastic (GRP) Non-Pressure Pipe
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Notes	AS2280 compatible sizes only (<=DN750)
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Standard Gravity Sewer Sizes (DN)–150, 225, 300, 375, 450, 600, 750

Manufacturer	Distributor	Description
<i>Fibrelogic Pipe Systems</i>	Fibrelogic Pipe Systems	GRP pipe, SN 10000, DN 300 to DN1200.
<i>Superlit</i>	<i>Promains</i>	GRP pipe DN300 to DN750 AS2280 DI compatible sizes only. Project specific approval required for larger sizes. Type ECR glass only. Filament Wound manufacture only – Not approved for continuous cast products.
<i>Superlit Boru ve Levha Sanayi A.S.</i>	<i>Clover Pipelines</i>	GRP pipe DN300 to DN750 PN1 to PN 32. Project specific approval required for larger sizes.

5.4. PE Pipe

Specifications	WSA PS-207 Polyethylene (PE) Pipe for Water Supply
Notes	Project specific approval required. Minimum stiffness rating of SN8 (PE100 SDR 21) Grey external with white/light coloured internal bore Standard sizes (DN) –160, 250, 315, 400

Manufacturer	Distributor	Description
<i>Iplex Pipelines</i>	Iplex Pipelines	PE pipe, DN160 to 400, PE100 min wall thickness SDR21.
<i>Vinidex</i>	Vinidex	PE pipe, DN160 to 400, PE100 min wall thickness SDR21.
<i>Industrial Pipe Systems</i>	<i>Industrial Pipe Systems</i>	<i>Approved for PE pressure pipe, non-pressure application approval pending.</i>
<i>Cromford Pipe – Identipipe</i>	<i>Cromford Pty Ltd</i>	HDPE pipe - DN20 to DN800 PN12.5 (SDR13.6) PE100.
<i>Poly Pipe Pty Ltd</i>	<i>Poly Pipe Pty Ltd</i>	<i>Approved for PE pressure pipe, non-pressure application approval pending.</i>
<i>PPI Corporation</i>	<i>PPI Corporation</i>	<i>Approved for PE pressure pipe, non-pressure application approval pending.</i>

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5.5. Polypropylene Pipe

Specifications	WSA PS 240 Polypropylene (Ribbed Construction) Non-Pressure Pipe and Fittings
Notes	Standard Gravity Sewer Sizes (DN)–150, 225, 300, 375, 450, 600, 750

Manufacturer	Distributor	Description
<i>Vinidex</i>	Vinidex	SewerPRO, DN150 to 900, Class SN10, dark grey, RR joint, 3m lengths.
<i>Iplex Pipelines</i>	Iplex Pipelines	SewerMAX pipe, DN 225 to 600, Class SN10, RR joint, 3m and 6m lengths.

5.6. PVC-U Pipe

Specifications	WSA PS 230 Polyvinylchloride, Unplasticised (PVC-U) Non-Pressure Pipe and Fittings
Notes	Minimum Class SN8 Standard Gravity Sewer Sizes (DN)–150, 225, 300, 375, 450, 600, 750

Manufacturer	Distributor	Description
<i>Vinidex</i>	Vinidex	Plain wall, PVC-U pipe, DN 150 to 375, Class SN8, RR joint.
<i>Micron Pipelines</i>	Micron Pipelines	Plain wall, PVC-U pipe, DN 150 to DN 300, Class SN8, RR joint.
<i>Pentair Water</i>	Pentair Water	Plain wall, PVC-U pipe, DN 150 to 375, Class SN8/SN10, RR joint.
<i>Iplex Pipelines</i>	Iplex Pipelines	Plain wall, PVC-U pipe, DN 150 to 375, Class SN8, RR joint.
<i>Pipemakers Australia</i>	<i>Pipemakers Australia</i>	Plain Wall, PVC-U pipe, DN 225, Class SN8, DWV Pipe 3M RR Joint.
<i>Australian Plastic Profiles – Pipe King</i>	Australian Plastic Profiles – Pipe King	Pipeline Systems Gravity – PVC-U Pipe – Plain wall, PVC-U pipe, DN100 (Class SN10), DN150 and DN225 (Class SN8) DWV, SCJ or RRJ.

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5.7. Steel Pipe

Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	MS encasing pipe, unlined and uncoated for thrust boring and jacking installations.
<i>Pentair Water</i>	Pentair Water	MS pipe, calcium aluminate cement lined, externally coated with FBPE "Sintakote" coating or uncoated for concrete encasement applications.
<i>Pipe Lining and Coating</i>	<i>Pipe Lining and Coating</i>	MS pipe, calcium aluminate cement lined, for concrete encased applications or above ground applications only. UHB epoxy coated or project specific coating.
<i>Pipe Lining and Coating</i>	<i>Pipe Lining and Coating</i>	Fusionkote Fusion Bonded Medium Density Polyethylene Coating (FBMDPE) DN100 to DN3600 PN30 internally calcium aluminate cement lined seal coating up to DN600.

6. Pipeline Systems Pressure

6.1. Ductile Iron Pipe

Specifications	<p>WSA PS 200 Ductile Iron Pipe for Water Supply and Sewerage</p> <p>WSA PS 202 Ductile Iron Pipe and Fittings for Water Supply ISO Sized</p> <p>WSA PS 320 Sleeving, Polyethylene for Ductile Iron Pipe and Fittings</p>
Notes	Standard Pressure Sewer Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750

Manufacturer	Distributor	Description
<i>Saint-Gobain PAM</i>	Saint-Gobain PAM	ZINALIUM / red synthetic coating, HAC lining INTEGRAL (DN 100 – DN 750) - PN 20, PN 35 and Flange Class. (Not suitable for soils with resistivity or electrical resistance less than 500 ohm cm)
<i>Pentair Water</i>	Pentair Water	Tyton 2100 Series TYTONXCEL pipe, cement mortar lining, DN100 to 750, PN 35.
Saint Gobain	<i>Vinidex</i>	PAM Integral PN35 DN100-750, internally cement lined (calcium aluminate).
<i>Suns Pipeline Co.</i>	<i>Vinidex</i>	Ductile Iron LINX (zinc coated) and ZAP (zinc-aluminium alloy) pipe with cement lining, DN100 to DN750 – PN35 and DN225 to DN750 – PN20.

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6.2. GRP Pipe

Specifications	<p>WSA PS 205 Glass Reinforced Plastic (GRP) Pressure Pipe for Water Supply</p> <p>WSA PS 205S Glass Reinforced Plastic (GRP) Pipe for Sewerage</p>
Notes	<p>AS2280 compatible sizes only (<=DN750)</p> <p>Standard Pressure Sewer Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750</p>

Manufacturer	Distributor	Description
<i>Fibrelogic Pipe Systems</i>	Fibrelogic Pipe Systems	GRP pipe, DN300 to DN1200, PN16, SN10000.
<i>Superlit Boru ve Levha Sanayi A.S.</i>	<i>Clover Pipelines</i>	GRP pipe DN300 to DN750 PN1 to PN 32. Project specific approval required for larger sizes.

6.3. PE Pipe

Specifications	<p>WSA PS-207 Polyethylene (PE) Pipe for Water Supply</p>
Notes	<p>Low pressure sewerage applications ≤ DN 160, project approved trenchless installations, and buried crossings (encased) only.</p> <p>Not approved for general use.</p> <p>Minimum allowable pressure rating of PN12.5 (SDR13.6) for sewerage.</p> <p>Cream or black with cream stripes</p>

Manufacturer	Distributor	Description
<i>Industrial Pipe Systems</i>	Industrial Pipe Systems	PE pipe, DN40 to 160, PE100, PN 12.5.
<i>Cromford Pty Ltd</i>	AFPM Holdings Pty Ltd	Cromford PE Pipe Range - PE100 Pressure Pipe Range DN 25-500, PN12.5 (SDR13.6) / PN16 (SDR11).
<i>Poly Pipe</i>	Poly Pipe	Poly Pipe – PE100 Pressure Pipe Range DN 25-400, PN12.5 (SDR13.6) / PN16 (SDR11).
<i>Iplex Pipelines</i>	Iplex Pipelines	PE pipe, DN40 to 160, PE100, PN 12.5.
<i>PPI Corporation</i>	PPI Corporation	PPI PE Pipe Range – PE100 Pressure Pipe Range DN 25-500, PN12.5 (SDR13.6) / PN16 (SDR11).
<i>Vinidex</i>	Vinidex	PE pipe, DN40 to 160, PE100, PN 12.5.

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<i>Pentair Water</i>	Pentair Water	Pipeline Systems Pressure – PE Pipe - Advantage PE Pressure Pipe – PE100 DN25-DN500.
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6.4. PVC-M Pipe

Specifications	WSA PS 209 Polyvinylchloride, Modified (PVC-M) Pressure Pipe for Water Supply and Sewerage
Notes	Series 2 (DI compatible), rubber ring joint only, with a minimum allowable pressure rating of PN12.5 for sewerage. DI fittings only. Standard Pressure Sewer Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750 Plain cream colour only

Manufacturer	Distributor	Description
<i>Iplex Pipelines</i>	Iplex Pipelines	Blue Rhino PVC-M pipe, DN 100 to 450.
<i>Pipemakers Australia</i>	<i>Pipemakers Australia</i>	Enviromain PVC-M pipe, DN 100 to 375.
<i>Vinidex</i>	Vinidex	Hydro PVC-M pipe, DN100-375 (Series 2), RR joint.
<i>Vinidex</i>	Vinidex	Hydro PVC-M pipe, DN 100 to 450.
<i>Pentair Water</i>	Pentair Water	Tuf-flo PVC-M pipe, DN100 to 450.

6.5. PVC-O Pipe

Specifications	WSA PS 210 Polyvinylchloride, Oriented (PVC-O) Pressure Pipe for Water Supply and Sewerage
Notes	Series 2 (DI compatible), rubber ring joint only, with a minimum allowable pressure rating of PN16 for water supply and PN12 for sewerage. DI fittings only. Standard Pressure Pipe Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750 Plain cream colour only for pressure sewerage

Manufacturer	Distributor	Description
<i>Vinidex</i>	Vinidex	Supermain PVC-O pipe, DN 100 to 375.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	ApolloBLUE PVC-O pipe, DN 100 to 300.
<i>Pentair Water</i>	Pentair Water	Opti-flo PVC-O pipe, PN16 DN100-150.
<i>Pipemakers Australia</i>	Clover Pipelines	PVC-O pressure pipe DN100-DN375 PN12.

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6.6. Steel Pipe

Specifications

WSA PS 203 Steel Pipe for Water Supply and Sewerage

WSA PS 204 Steel Fittings for Water Supply and Sewerage

Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	MS pipe, Cement lined and FBPE coating (Sintakote).
<i>Pipe Lining and Coating</i>	<i>Pipe Lining and Coating</i>	MS pipe, calcium aluminate cement lined, for concrete encased applications or above ground applications only. UHB epoxy coated or project specific coating.
<i>Pipe Lining and Coating</i>	<i>Pipe Lining and Coating</i>	Fusionkote Fusion Bonded Medium Density Polyethylene Coating (FBMDPE) DN100 to DN3600 PN30 internally calcium aluminate cement lined seal coating up to DN600.

7. Supplementary Products

7.1. Bolt Cap

Manufacturer	Distributor	Description
<i>Corroseal Coatings</i>	<i>Corroseal Coatings</i>	Cap (use in bolt protection), TYPE - RADOLID, SW. BOLT SIZE -M16, 20, 24, 27, 30.
<i>Denso</i>	<i>Denso</i>	Cap (use in bolt protection), TYPE - RADOLID, SW. BOLT SIZE -M16, 20, 24, 27, 30.

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7.2. Cement

Specifications

WSA 114 Concrete special class
 WSA PS 357 Concrete, Pre-Mixed, Normal Class
 WSA PS 358 Concrete, Pre-Mixed, Special Class

Manufacturer	Distributor	Description
<i>Fosroc Australia</i>	<i>Fosroc Australia</i>	Compressible membrane.
<i>Blue Circle Southern</i>	<i>Blue Circle Southern</i>	Cement (sulphate resisting).
<i>Queensland Cement</i>	<i>Queensland Cement</i>	Cement (sulphate resisting).
<i>Adelaide Brighton</i>	<i>Adelaide Brighton</i>	Cement (sulphate resisting).

7.3. Drainage Pipe

Specifications

WSA PS 230 Polyvinylchloride, Unplasticised (PVC-U) Non-Pressure Pipe and Fittings

Manufacturer	Distributor	Description
<i>Vinidex</i>	<i>Vinidex</i>	StormPRO DN150 - 900 SN8, black, 3m and 6m lengths.
<i>Yattler</i>	<i>Yattler</i>	Drainage pipe, corrugated slotted, stockinette, PVC stormwater.
<i>Pentair Water</i>	<i>Pentair Water</i>	D-Flo DN100 to 375 DWV SN4, SN6 only.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	BlackMAX pipe, Ribbed profile, DN 225 to 600, Class SN8, RR joint, 3m and 6m lengths.
<i>Fibrelogic Pipe Systems</i>	<i>Fibrelogic Pipe Systems</i>	GRP pipe, SN 5000, DN 300 to 750.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	Drainage pipe, corrugated slotted, stockinette, PVC stormwater.

7.4. Gasket

Specifications

WSA PS 312 Flange Gaskets and O-Rings

Manufacturer	Distributor	Description
<i>Industrial Gaskets and Sealants</i>	<i>Industrial Gaskets and Sealants</i>	Gasket rubber insertion. For use with 3 mm thick flanges.

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7.5. Geotextile

Specifications | WSA PS 355 Geotextile Filter Fabric

Manufacturer	Distributor	Description
<i>Geofabric</i>	<i>Geofabric</i>	Geotextile, 2mx150m & 4mx150m, 4.5mx150m. BIDIM U14, TERRAM 1000 UV.
<i>Geolab Systems</i>	<i>Geolab Systems</i>	Geotextile, 2mx150m & 4mx150m, 4.5mx150m. BIDIM U14, TERRAM 1000 UV.

7.6. Paint

Road Marking Paint

Manufacturer	Distributor	Description
<i>Anzol</i>	<i>Anzol</i>	Govt. Paint Comm. No (Type) - GPC-P-41/1. Colours: Signal Red (R13), Vivid Yellow (Y13), White, Blue, Green.
<i>Dulux</i>	<i>Dulux</i>	Govt. Paint Comm. No (Type) - GPC-P-41/1. Colours: Signal Red (R13), Vivid Yellow (Y13), White, Blue, Green.
<i>Taubmans</i>	<i>Taubmans</i>	Govt. Paint Comm. No (Type) - GPC-P-41/1. Colours: Signal Red (R13), Vivid Yellow (Y13), White, Blue, Green.
<i>Wattyl</i>	<i>Wattyl</i>	Govt. Paint Comm. No (Type) - GPC-P-41/1. Colours: Signal Red (R13), Vivid Yellow (Y13), White, Blue, Green.

7.7. Plug

Manufacturer	Distributor	Description
<i>Hepworth International</i>	<i>Hepworth International</i>	Test plug, 15,. PP, with integral nipple (To fit VC pipes only).

7.8. Scour Pipe

Manufacturer	Distributor	Description
<i>Vinidex</i>	<i>Vinidex</i>	PVC-U pipe (for use in scour chambers), DN 100, SN8.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	PVC-U pipe (for use in scour chambers), DN 100, SN8.

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7.9. Sealing Strip

Manufacturer	Distributor	Description
<i>CSR Humes</i>	<i>CSR Humes</i>	Sealing strip, bitumen impregnated PU foam. TYPE - COMPRIBAND, WILLSEAL, PRESTITE.
<i>Ormonoid</i>	<i>Ormonoid</i>	Sealing strip, bitumen impregnated PU foam. TYPE - COMPRIBAND, WILLSEAL, PRESTITE.
<i>Ramset</i>	<i>Ramset</i>	Sealing strip, bitumen impregnated PU foam. TYPE - COMPRIBAND, WILLSEAL, PRESTITE.
<i>Rocla Pipeline Products</i>	<i>Rocla Pipeline Products</i>	Sealing strip, bitumen impregnated PU foam. TYPE - COMPRIBAND, WILLSEAL, PRESTITE.

7.10. Sleeving

Specifications

WSA PS 320 Sleeving, Polyethylene for Ductile Iron Pipe and Fittings

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	PE sleeving, cream, DN100 to 750 with tape/strap and buckle).

7.11. Tape

Specifications

WSA PS 318 Marking Tape, Detectable
WSA PS 319 Marking Tape, Non-Detectable

Notes

Water main marking/tracer tape and metal tracer tape to have the inscription "CAUTION - WATER MAIN BURIED BELOW"

Sewerage marking/tracer tape and metal tracer tape to have the inscription "CAUTION - SEWER MAIN BURIED BELOW" for use with rising mains.

Junction marking tape to have the inscription "SEWER JUNCTION BURIED BELOW"

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Joint Coating Tape and Filler

Manufacturer	Distributor	Description
<i>Tremco P/line Equip</i>	<i>Tremco P/line Equip</i>	Joint coating tape and filler, Rockrap 3000. Serviwrap R30. Polyken 934-50. Tek-Rap tr-280-50.
<i>Corroseal Coatings</i>	<i>Corroseal Coatings</i>	Joint coating tape and filler, Rockrap 3000. Serviwrap R30. Polyken 934-50. Tek-Rap tr-280-50.
<i>Denso</i>	<i>Denso</i>	Sealing tape, 100mm x 10m, 150mm x 10m, 225mm x 10m, adhesive mastic impregnated carrier backed with PVC laminate. TYPE - DENSOPOL 60 HT TAPE.
<i>Denso</i>	<i>Denso</i>	Joint coating tape and filler, Rockrap 3000. Serviwrap R30. Polyken 934-50. Tek-Rap tr-280-50.
<i>Prochem P/line Equip</i>	<i>Prochem P/line Equip</i>	Joint coating tape and filler, Rockrap 3000. Serviwrap R30. Polyken 934-50. Tek-Rap tr-280-50.

Marking Tap

Manufacturer	Distributor	Description
<i>Tapex</i>	<i>Tapex</i>	Sewer junction marking tape 100mm*100m.
<i>Road Signs</i>	<i>Road Signs</i>	Sewer junction marking tape 100mm*100m.
<i>Hunter Valley Signs</i>	<i>Hunter Valley Signs</i>	Marking tape, 100mm*100m.
<i>Foster Test Equipment</i>	<i>Foster Test Equipment</i>	Sewer junction marking tape 100mm*100m.

Metal Tracer Tape

Manufacturer	Distributor	Description
<i>Road Signs</i>	<i>Road Signs</i>	Metal tracer tape, 100mm*100m.
<i>Foster Test Equipment</i>	<i>Foster Test Equipment</i>	Metal tracer tape, 100mm*100m.
<i>Tapex</i>	<i>Tapex</i>	Metal tracer tape, 100mm*100m.

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8. Surface Fittings

8.1. Valve Cover

Specifications

WSA PS 290 Access Covers for Water Supply and Sewerage to AS 3996

Manufacturer	Distributor	Description
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Gate valve cover and frame, Cast Iron.
<i>Pentair Water</i>	<i>Pentair Water</i>	Gate valve cover and frame, Cast Iron.
<i>Fidax Foundry</i>	<i>Fidax Foundry</i>	Gate valve cover and frame, Cast Iron.

9. Valves & Hydrants

9.1. Air Valve

Specifications

 WSA PS 265 Air Valves for Water Supply
 WSA PS 275 Air Valves for Sewerage

Manufacturer	Distributor	Description
<i>Amiad Australia</i>	<i>Amiad Australia</i>	Air Valve, DN50 to DN100, ARI Compact Combination Model D-025.
<i>Ventomat Australia</i>	<i>Ventomat Australia</i>	Air Valve - 50 mm threaded BSP and DN80, DN100, DN150 and DN200 (Table C) flanged connection - Double Orifice (combination), with anti-surge mechanism, 316L stainless steel & high density polyethylene construction - Model RGX.
<i>Amiad Australia</i>	<i>Amiad Australia</i>	Air Valve, ARI Combination Model, D-023 DN80 to DN100 / D-020 DN50 to DN200.

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9.2. Gate Valve

Specifications	WSA PS 260 Gate Valves, Resilient Seated WSA PS 261 Gate Valves, Metal Seated WSA PS 266 Knife Gate Valves for Water Supply and Sewerage
Notes	Clockwise Closing Only

Resilient Seated

Manufacturer	Distributor	Description
<i>AVK Australia</i>	<i>AVK Australia</i>	Gate Valve, Resilient seated, DI, Fusion bonded epoxy coating, clockwise closing, PN16 Series 57 DN80-375, Series 55 DN400-600 Series 57-90 (fl - fl) and 57/55 (soc-soc) DN100–DN150,
<i>AWE</i>	<i>AWE</i>	Gate Valve, Resilient seated, DI. DN100-300. Fusion bonded coating internal & external, clockwise closing.
<i>Shanghai Karon Machinery</i>	Challenger Valves & Actuators	Gate valve, resilient seated with fusion bonded polymeric coating internal/external. FI-FL DN80-DN600.
<i>Pentair Water</i>	Pentair Water	Tyco Auslite II Gate Valve, resilient seated DN100 to DN300 FL-FL.
<i>Alpine Flow Control</i>	<i>Derwent Industries</i>	Gate valve, resilient seated DI with FBE coating, DN80 to DN600 PN16.
<i>Betta Fluid Machinery</i>	<i>Clover Pipelines</i>	Gate valve, resilient seated DI with fusion bonded epoxy coating: FL-FL DN50 – DN600 Soc-Soc DN100 – DN375 Sp-Sp DN100 & DN150 FL-Soc DN100 & DN150
<i>Daemco Australia</i>	<i>Daemco Australia</i>	Gate valve, resilient seated, DI, thermal bonded epoxy coating, DN80 to DN300 – PN16 flanged.

Metal Seated

Manufacturer	Distributor	Description
<i>Pentair Water</i>	Pentair Water	Gate Valve, Metal seated, DI. DN100 to 600, Max Hd. 140/160m. Thermal Bonded Lining internal and external.
<i>Crevet Pipelines</i>	Crevet Pipelines	Gate Valve, Metal seated, DI. DN100 to 600, Fusion bonded coating internal & external, clockwise closing.

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10. Ventilation

10.1. Ventshaft

Specifications

WSA PS 325 Vent Shaft Educt
 WSA PS 326 Vent Shaft Induct

Manufacturer	Distributor	Description
<i>Ingal EPS</i>	<i>Ingal EPS</i>	Educt, galvanised steel DN100, 225, 300, heights 6, 9 and 12m.
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Induct, 100, CI, with a mica flap-vent.
<i>Taperline Australia</i>	<i>Taperline Australia</i>	Educt, galvanised steel DN100, 225, 300.
<i>International Poles</i>	<i>International Poles</i>	Educt, galvanised steel.
<i>RPC</i>	<i>RPC</i>	GRP Vent Stacks DN 150, 225, 300, 3-16m (height as specified in design).

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