



# Approved Products and Manufacturers

## Water Network

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Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 1 of 25

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Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 2 of 25

# APPROVED PRODUCTS AND MANUFACTURERS

## WATER

### CONTENTS

1. Introduction.....	7
2. Access Chambers .....	8
2.1. Access Cover .....	8
3. Connections.....	8
3.1. Direct Tapping.....	8
3.2. Flow Control .....	9
3.3. Maintap.....	9
3.4. Pretapped Connector .....	10
3.5. Tapping Band.....	10
4. Fittings Pressure .....	11
4.1. Ductile Iron Collar.....	11
4.2. Ductile Iron Fittings .....	12
4.3. GRP Fittings.....	12
4.4. Mechanical Couplings .....	13
4.5. PE Fittings.....	13
4.6. Restraining Joint .....	14
4.7. Steel spigot band .....	14
4.8. Steel welding collar .....	14
4.9. Water supply fittings.....	15
5. Pipeline Systems Pressure .....	15
5.1. Ductile Iron Pipe.....	15
5.2. GRP Pipe .....	16
5.3. PE Pipe .....	16
5.4. PVC-M Pipe.....	17
5.5. PVC-O Pipe.....	17
5.6. Steel Pipe.....	18
6. Supplementary Products.....	18
6.1. Sleeving.....	18
6.2. Tape .....	19
7. Surface Fittings .....	19
7.1. Gate Valve Cover.....	19
7.2. Gate Valve/Hydrant Shroud .....	20
7.3. Hydrant Cover .....	20
8. Valves & Hydrants.....	21
8.1. Air Valve.....	21
8.2. Ball Valve .....	21
8.3. Gate Valve.....	22
8.4. Hydrant.....	24
8.5. Hydrant Control Valve .....	24
8.6. Valve Extension Spindle .....	24

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 3 of 25

## DOCUMENT CONTROL

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## REVISION HISTORY

Issue	Clause / Product Group	Amendment	Comments
3.4 – December 2017	4.5 PE Fittings	Product added: Daemco Xcel DN63 to DN315 Restrained Joint Couplings and DN63 to DN225 Flange Adapters for PE pipe (PN16)	
	4.4 Mechanical Couplings	Product added: Daemco 316 Stainless Steel Repair Clamps DN80 to DN300, PN16, Type F and R	
	4.4 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	
3.3 January 2017	3.5 Tapping Band	Product added: Fusion Group EF Tapping Band and Branch Saddle	
	4.5 PE Fittings	Product added: Fusion Group EF Fittings DN20 to DN630	
	8.1 Air Valve	Product added: Bermad Water Technologies Air Valve DN50 to DN200	
	8.3 Gate Valve	Product added: Daemco Australia RSGV DN80 to DN300	
3.2 – December 2016	Entire document	'Distributor' column added to table with associated changes made	
	3.5 Tapping Band	Product added: Friatec Ag Electrofusion Tapping Band	
	4.5 PE Fittings	Product added: Friatec Ag Electrofusion Fittings	
	5.1 DI Pipe – Pressure	Product added: Suns Pipeline Co. DI pressure pipe	
3.1 – November 2016	5.1 Ductile Iron Pipe	Product added: ZINALIUM / blue synthetic coating, BFC lining HYDROCLASS	

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 4 of 25

		(DN 100 – DN 750) - PN 20, PN 35 and Flange Class.	
3.0 – May 2016	5.1 Ductile Iron Pipe	Product added: ZINALIUM / blue synthetic coating, BFC lining HYDROCLASS (DN 100 – DN 750) - PN 20, PN 35 and Flange Class.	
	4.9 Water supply fittings	Product added: B Press Water fittings DN20-DN100 (copper and brass) PN16	
2.9 – March 2016	8.3 Gate Valve	Product added: Derwent Industries RSGV DN80 to DN600	
	8.4 Spring Hydrant	Product added: Derwent Industries Spring Hydrant DN80	
	8.3 Gate Valve	Product added: Clover Pipelines RSGV	
	8.4 Spring Hydrant	Product added: Clover Pipelines Spring Hydrant DN80	
	4.2 DI Fittings - Pressure	Product added: Galvin Engineering DI Fittings DN100-300 Pressure Polymer Lining	
	4.2 DI Fittings - Pressure	Product removed: Galvin Engineering DI Fittings DN100-150 Pressure Cement Lined	Supplier/Manufacturer advised the product is no longer produced
	8.2 Ball Valve	Product added: Zetco Valves Ball Valve DN20 Meter and DN20-25 Main Tap for Potable and Recycled Water	
	5.6 Steel Pipe – Pressure	Product added: Pipe Lining & Coating Fusionkote DN100-3600 FBMDPE	
	5.1 Ductile Iron and 5.6 Steel Pipe – Pressure	Amendment to include internal cement lined seal coating to DN600	
2.8 – August 2015	8.3 Gate Valve	Auslite II RSGV – Change sizes to DN100 to DN300	
	5.5 PVC-O Pipe	Addition of Pipemakers Australia (Supplier: Clover Pipelines) PVC-O Pipe DN100-DN375 PN16	
	5.3 PE Pipe	Cromford Pipe – Identipipe - Change sizes to DN20-DN800	
2.7– January 2015	3.1 Connections	Remove Max off-take sizes; Add Tappings to comply with WSA A Supplement to WSA 03 -2002 for UPCIC.	
	8.3 Gate Valves Resilient Seated	Add Challenger Karon Soc-Soc DN100-DN300	

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	8.3 Gate Valves – Resilient Seat with Integral Bypass	Tyco – was DN 500 now 450 AVK remove DN500	
	All	Manufacturer - Pentair was Tyco	Not changed for product names
	5.1 Ductile Iron Pipe	Remove Tyton 2100 Series. Add comment for internal seal coat requirement.	
2.5 – October 2013	GRP Fittings	Add category Add Promains Product	
	GRP Pipe	Add Promains Product	
	Gate Valve Resilient Seated	Add Beta Product	
	PE Pipe – pressure	Add Tyco	
2.4 -December 2011	Tapping Band	Product added: Wang Vari Tap FBE coated tapping bands, DI, DN100	New product /supplier
	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 - June 2011	NA	General formatting; additional notes added; standard pipe sizes added	Consolidate specifications
	Ductile Iron Pipe	Product added: Vinidex / Saint Gobain Ductile Iron Pipe DN100-DN750	New product /supplier
	PVC-O	Product added: Micron Pipelines PVC-O TOM Pipe DN100-DN375	New product /supplier
	Gate Valves	Product added: Tyco Auslite II Resilient Seated Gate Valve DN100-DN150 FL-FL	New product /supplier
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
	Air Valves	Product name change: AVK Air Valve	Supplier change
2.1 May 2010	All	Document Revision	Update of supplier / manufacturer names and product details

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 6 of 25

## 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](http://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.

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 7 of 25

## 2. Access Chambers

### 2.1. Access Cover

<b>Specifications</b>	WSA PS-292 Access Covers WSA PS-291 Access Covers for Water Supply
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#### 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 (2 part) (ventilated part) 900 x 900. DI. For use with air valve chambers.
<i>Gatic Milnes</i>	<i>Gatic Milnes</i>	Access cover (2 part) 225 dia., locked insert, 900 * 900. DI. For use with screw hydrant.
Weifang Weikai Casting Ltd.	<i>ACO Polycrete</i>	Rhinocast - DN600 (Circular) DI cover and grey iron framed seal. Solid top; Class B (non trafficable (ACO PN 85134) - MUST HAVE THE WORD "SEWER" REMOVED FROM COVER.

#### Trafficable (Class D)

Manufacturer	Distributor	Description
<i>Gatic Milnes</i>	<i>Gatic Milnes</i>	Access cover & frame, 600 dia. DI.
Weifang Weikai Casting Ltd.	<i>ACO Polycrete</i>	Rhinocast - DN600 (Circular) DI cover and grey iron framed seal. Solid top; Class D (trafficable - ACO PN 89148) - MUST HAVE THE WORD "SEWER" REMOVED FROM COVER.

## 3. Connections

### 3.1. Direct Tapping

<b>Specifications</b>	WSA PS-310 Tapping Bands, Mechanical for Water Supply WSA PS-327 Tapping Bands, Mechanical, PE Mains, Water Supply WSA PS-313 Clamps, Off-Take for Under-Pressure Connections
<b>Notes</b>	For direct tapping into mains under pressure (live). Tappings to comply with WSAA Supplement to WSA

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03-2002 for UPCIC.

All tapping and off take clamps must be supplied with a polyethylene tubercular bush.

Manufacturer	Distributor	Description
<i>Complete Tapping Service</i>	<i>Complete Tapping Service</i>	Direct tapping into mains under pressure. Tappings to comply with WSAA Supplement to WSA 03-2002 for UPCIC.

### 3.2. Flow Control

<b>Specifications</b>	WSA PS-310 Tapping Bands, Mechanical for Water Supply WSA PS-327 Tapping Bands, Mechanical, PE Mains, Water Supply WSA PS-313 Clamps, Off-Take for Under-Pressure Connections
<b>Notes</b>	Under pressure flow stops

Manufacturer	Distributor	Description
<i>Complete Tapping Service</i>	<i>Complete Tapping Service</i>	AquaStop flow stopping service, DN 80 to 150, SS flange offtake with ss or brass ball valve.
<i>Complete Tapping Service</i>	<i>Complete Tapping Service</i>	HydraStop flow stopping service, DN 200 to 300, SS flange offtake with threaded plug and blank flange.

### 3.3. Maintap

<b>Specifications</b>	WSA PS-310 Tapping Bands, Mechanical for Water Supply WSA PS-327 Tapping Bands, Mechanical, PE Mains, Water Supply.
<b>Notes</b>	Polyethylene tubercular bush must be used with all tappings on DI (and CI and ST) mains.

Manufacturer	Distributor	Description
<i>Gattic Milnes</i>	<i>Gattic Milnes</i>	Maintap (for use with tapping bands), 20 and 25.
<i>TITA Fittings</i>	<i>TITA Fittings</i>	Maintap (for use with tapping bands), 20 and 25.
<i>RMC Watermains</i>	<i>RMC Watermains</i>	Maintap (for use with tapping bands), 20 and 25.

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 9 of 25

### 3.4. Pretapped Connector

<b>Specifications</b>	WSA PS-310 Tapping Bands, Mechanical for Water Supply WSA PS-327 Tapping Bands, Mechanical, PE Mains, Water Supply.
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Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	ReadyTap (Single/Multi) Connector SO/SO, DN100 to 300, DI, polymer coating.
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Pretapped connector SO/SO, DN100 to 375, DI, polymer coating.

### 3.5. Tapping Band

<b>Specifications</b>	WSA PS-310 Tapping Bands, Mechanical for Water Supply WSA PS-327 Tapping Bands, Mechanical, PE Mains, Water Supply WSA PS-313 Clamps, Off-Take for Under-Pressure Connections
<b>Notes</b>	Single bolt tapping bands not permitted. All tapping and off take clamps must be supplied with a polyethylene tubercular bush.

#### Stainless Steel Type F (PVC)

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	KT stainless steel tapping band, for PVC pipe only, DN80 to 200, 20 & 25mm tappings.

#### Type F/R (DI/PVC/AC)

Manufacturer	Distributor	Description
<i>Stockbrands</i>	<i>Stockbrands</i>	4N Blue tapping bands for DN40 to DN200.
<i>Pentair Water</i>	<i>Wang Components</i>	Wang Vari Tap FBE coated tapping bands, DI, DN100.

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### Type F (PVC)

Manufacturer	Distributor	Description
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Tapping band for PVC mains, 100x20 - 300x25, polymer coating.
<i>RMC Watermains</i>	<i>RMC Watermains</i>	Tapping band for PVC mains, 100x20 - 300x25, polymer coating.
<i>Stockbrands</i>	<i>Stockbrands</i>	Tapping band for PVC mains, 100x20 - 300x25, polymer coating.
<i>Gatic Milnes</i>	<i>Gatic Milnes</i>	Tapping band for PVC mains, 100x20 - 300x25, polymer coating.

### Type F (PE)

Manufacturer	Distributor	Description
<i>Friatex Ag</i>	Vinidex	Electrofusion Tapping Band for PE mains; Frialen EF Tapping Tee 40x20 to 225x63 - PN16. Electrofusion Branch Saddle for PE Mains; Frialen EF Branch Saddle 63x32 to 315x90 – PN16.
<i>Fusion Group</i>	Fusion Group	Electrofusion Tapping Band for PE mains; Multiseal Tapping Tee Stackload (S/L) 40x20 to 355x32, Multiseal Tapping Tee Underpart (U/P) 40x20 to 225x63, Flextee Tapping Tee U/P 40x20 to 250x32 - PN16. Electrofusion Branch Saddle for PE mains; Branch Saddle S/L 250x40 to 355x63, Branch Saddle U/P 40x20 to 250x125 – PN16.

### Type R (Rigid only CI, DI, MS, AC)

Manufacturer	Distributor	Description
<i>RMC Watermains</i>	<i>RMC Watermains</i>	Tapping band (insulated) for DI mains, 100x25 - 300x25.
<i>Stockbrands</i>	<i>Stockbrands</i>	Tapping band (insulated) for DI mains, 100x25 - 300x25.
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Tapping band (insulated) for DI mains, 100x25 - 300x25.

## 4. Fittings Pressure

### 4.1. Ductile Iron Collar

<b>Specifications</b>	WSA PS 201 Ductile Iron Fittings for Water Supply and Sewerage
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UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 11 of 25

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	SLIPTYT DI Collar, DN100 to 150, Tyton Joint.

#### 4.2. Ductile Iron Fittings

<b>Specifications</b>	WSA PS 201 Ductile Iron Fittings for Water Supply and Sewerage WSA PS 272 Fittings, End Thrust Restraint
<b>Notes</b>	All polymer coatings are thermal/fusion bonded polymeric (inc. epoxy) coatings unless otherwise noted.

#### Cement Lining

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	Bends, collars, connectors, joints, tees, risers, tapers, flanges, caps, plugs DN 375 to 750.

#### Polymer Lining

Manufacturer	Distributor	Description
<i>Dobbie Dico</i>	<i>Icon Septech</i>	Bends, Tees, Tapers, Hydrant Risers, Scour Tees, Connectors, Caps in sizes DN80 to DN250.
<i>Vinidex</i>	<i>Vinidex</i>	Deep socketed bends, tees, tapers and connectors, DI DN100 to 250.
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Ductile Iron Fitting DN100-750 PN35.
<i>Mallet Foundry</i>	<i>Mallet Enterprises</i>	Bends, tees, tapers, connectors, hydrant tees, scours, DN100 to 750.
<i>Pentair Water</i>	<i>Pentair Water</i>	Auslite DI fittings, bends and tees, DN100/150.
<i>Pentair Water</i>	<i>Pentair Water</i>	Ductile Iron Fittings DN100-750 PN35.
<i>Derwent Foundry</i>	<i>Derwent Industries</i>	Ductile Iron Fitting DN100-750 PN35.
<i>Himgiri Castings Pty Ltd</i>	<i>Galvin Engineering</i>	DN100 to DN300 Bends, connectors, tees, adaptors and risers with polymeric coating.

#### 4.3. GRP Fittings

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 12 of 25

<b>Specifications</b>	WSA PS 205 Glass Reinforced Plastic (GRP) Pressure Pipe for Water Supply  WSA PS 205S Glass Reinforced Plastic (GRP) Pipe for Sewerage
	Standard Pressure Pipe Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750

<b>Manufacturer</b>	<b>Distributor</b>	<b>Description</b>
<i>Promains</i>	<i>Promains</i>	GRP pressure pipe DN300 to DN750, AS2280 DI compatible sizes only.  Project specific approval required for larger sizes.  Filament Wound manufacture only – Not approved for continuous cast products.

#### 4.4. Mechanical Couplings

<b>Specifications</b>	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
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<b>Manufacturer</b>	<b>Distributor</b>	<b>Description</b>
<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>	<i>Pentair Water</i>	Wang Vari-Gib Couplings, DN 40 to 600.
<i>Pentair Water</i>	<i>Pentair Water</i>	Ezigib mechanical coupling, long and short barrel, DN100 to 200, DI Thermal Bonded Lining.

#### 4.5. PE Fittings

<b>Specifications</b>	WSA PS-208 Polyethylene (PE) Pressure Fittings for Water Supply and Sewerage  WSA PS 216 Polyethylene (PE) Fittings for Water Supply and Sewerage Fabricated
<b>Notes</b>	See PE pipe Notes for guidance on approved usage

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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>Georg Fischer</i>	<i>Georg Fischer</i>	PE electrofusion pipe fittings PN16, mechanical fittings ≤ DN63 PN16.
<i>Plasson</i>	Vinidex	Electrofusion Fittings, DN40 to 125, PN 16.
<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.

#### 4.6. 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), DN100 to 750 ST.

#### 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>	Welding collars, < 900x150w 900 - 1200x200w. ST.

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#### 4.9. Water supply fittings

<b>Specifications</b>	AS 3688: Water supply – Metallic fittings and end connectors
<b>Notes</b>	As per manufacturer instructions, only Rothenberger and/or Viega crimping tools shall be used on B Press copper and brass water fittings.

Manufacturer	Distributor	Description
<i>Conex Banninger</i>	<i>Conex Banninger</i>	B Press Water fittings DN20-DN100 (copper and brass) PN16.

### 5. Pipeline Systems Pressure

#### 5.1. Ductile Iron Pipe

<b>Specifications</b>	<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>
	Standard Pressure Pipe Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750

Manufacturer	Distributor	Description
<i>Saint-Gobain PAM</i>	<i>Saint-Gobain PAM</i>	ZINALIUM / blue synthetic coating, BFC lining HYDROCLASS (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).  (Must conform to AS 4020 and must have internal seal coating up to DN600).
<i>Saint Gobain</i>	<i>Pentair</i>	PAM Classic PN35, DN100-750, internally cement lined (must conform to AS 4020 and must have internal seal coating up to DN600).
<i>Xing Xing</i>	<i>Crevet / Australia China Metal Corporation</i>	Ironite PN35, DN100-750, internally cement lined (must conform to AS 4020 and must have internal seal coating up to DN600).
<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.

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 15 of 25

## 5.2. GRP Pipe

<b>Specifications</b>	<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>
	<p>Standard Pressure Pipe Sizes (DN)–100, 150, 250, 375, 450, 500, 600, 750</p>

Manufacturer	Distributor	Description
<i>Fibrelogic Pipe Systems</i>	<i>Fibrelogic Pipe Systems</i>	GRP Pipe, DN300 to 750, PN16, SN10000 (>DN750 requires project specific approval).
<i>Superlit</i>	<i>Promains</i>	<p>GRP pressure pipe DN300 to DN750, AS2280 DI compatible sizes only.</p> <p>Project specific approval required for larger sizes.</p> <p>Filament Wound manufacture only – Not approved for continuous cast products.</p>

## 5.3. PE Pipe

<b>Specifications</b>	<p>WSA PS-207 Polyethylene (PE) Pipe for Water Supply</p>
<b>Notes</b>	<p>Not approved for general reticulation use - service connections <math>\leq</math> DN 63, project approved trenchless installations, and buried crossings (encased) only. Minimum allowable pressure rating of PN16 (SDR11) for water supply.</p>

Manufacturer	Distributor	Description
<i>Poly Pipe</i>	<i>Poly Pipe</i>	Poly Pipe – PE100 Pressure Pipe Range DN 25-400 , PN12.5 (SDR13.6) / PN16 (SDR11).

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 16 of 25



<i>PPI Corporation</i>	<i>PPI Corporation</i>	PPI PE Pipe Range – PE100 Pressure Pipe Range DN 25-500, PN12.5 (SDR13.6) / PN16 (SDR11).
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	HDPE pipe, DN40 to 160, PE100.
<i>Industrial Pipe Systems</i>	<i>Industrial Pipe Systems</i>	HDPE pipe, DN40 to 160, PE100.
<i>Vinidex</i>	<i>Vinidex</i>	HDPE pipe, DN40 to 160, PE100.
<i>Pentair</i>	<i>Pentair</i>	Tyco Advantage PE Pressure Pipe – PE100 DN25-DN500.
<i>Cromford Pipe</i>	<i>Cromford Pipe</i>	HDPE pipe - DN20 to DN800 PN16 (SDR11) PE100.

#### 5.4. PVC-M Pipe

<b>Specifications</b>	WSA PS 209 Polyvinylchloride, Modified (PVC-M) Pressure Pipe for Water Supply and Sewerage
	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

<b>Manufacturer</b>	<b>Distributor</b>	<b>Description</b>
<i>Micron Pipelines</i>	<i>Micron Pipelines</i>	PVC-M pipe, DN 100 to 300.
<i>Iplex Pipelines</i>	<i>Iplex Pipeline</i>	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>	<i>Vinidex</i>	Hydro PVC-M pipe, DN100-375 (Series 2), RR joint.
<i>Vinidex</i>	<i>Vinidex</i>	Hydro PVC-M pipe, DN 100 to 450.
<i>Pentair Water</i>	<i>Pentair Water</i>	Tuf-flo PVC-M pipe, DN100 to 450.

#### 5.5. PVC-O Pipe

<b>Specifications</b>	WSA PS 210 Polyvinylchloride, Oriented (PVC-O) Pressure Pipe for Water Supply and Sewerage
<b>Notes</b>	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

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 17 of 25

Manufacturer	Distributor	Description
<i>Vinidex</i>	<i>Vinidex</i>	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>Micron Pipelines</i>	<i>Micron Pipelines</i>	TOM PVC-O pressure pipe DN100-DN375 PN16.
<i>Pentair Water</i>	<i>Pentair Water</i>	Opti-flo PVC-O pipe, PN16 DN100-150.
<i>Pipemakers Australia</i>	Clover Pipelines	PVC-O pressure pipe DN100-DN375 PN16.

## 5.6. 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>	<i>Pentair Water</i>	Sintakote FBPE coated ext & int lined steel pipe. Internal cement lined seal coating up to DN600.
<i>Pentair Water</i>	<i>Pentair Water</i>	Sintapipe FBPE coated ext & int lined steel pipe. Internal cement lined seal coating up to DN600.
<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. Internal cement lined seal coating up to DN600.
<i>Pipe Lining and Coating</i>	<i>Pipe Lining and Coating</i>	Fusionkote Fusion Bonded Medium Density Polyethylene Coating (FBMDPE) DN100 to DN3600 PN30. Internal cement lined seal coating up to DN600.

## 6. Supplementary Products

### 6.1. Sleeving

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

Manufacturer	Distributor	Description
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<i>Pentair Water</i>	<i>Pentair Water</i>	Polyethylene sleeving 100 to 750 with tape/strap and buckle.
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## 6.2. Tape

<b>Specifications</b>	WSA PS 318 Marking Tape, Detectable WSA PS 319 Marking Tape, Non-Detectable
<b>Notes</b>	Water main marking/tracer tape and metal tracer tape to have the inscription "CAUTION - WATER MAIN BURIED BELOW"

### Joint Coating Tape and Filler

Manufacturer	Distributor	Description
<i>Denso</i>	<i>Denso</i>	Tape Rockrap 3000 Serviwrap R30 Polyken 934-50 Tek-Rap tr-280-50.
<i>Tremco P/line Equip</i>	<i>Tremco P/line Equip</i>	Tape Rockrap 3000 Serviwrap R30 Polyken 934-50 Tek-Rap tr-280-50.
<i>Corroseal Coatings</i>	<i>Corroseal Coatings</i>	Tape Rockrap 3000 Serviwrap R30 Polyken 934-50 Tek-Rap tr-280-50.
<i>Prochem P/line Equip</i>	<i>Prochem P/line Equip</i>	Tape Rockrap 3000 Serviwrap R30 Polyken 934-50 Tek-Rap tr-280-50.

### Metal Tracer Tape

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

## 7. Surface Fittings

### 7.1. Gate Valve Cover

<b>Specifications</b>	WSA PS-292 Access Covers WSA PS-291 Access Covers for Water Supply
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**Non-Trafficable (Class B)**

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	Gate Valve Cove, DI lid with recycled polyethylene surround.

**Trafficable (Class D)**

Manufacturer	Distributor	Description
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Gate Valve Cover & Frame.

**7.2. Gate Valve/Hydrant Shroud**

<b>Specifications</b>	WSA PS-292 Access Covers WSA PS-291 Access Covers for Water Supply
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Manufacturer	Distributor	Description
<i>Vinidex</i>	<i>Vinidex</i>	Gate Valve Shroud Pipe, PVC, CI Sewer.
<i>Mainline Plastics</i>	<i>Mainline Plastics</i>	Spring Hydrant Shroud Pipe, PVC DWV Sewer.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	Spring Hydrant Shroud Pipe, PVC DWV Sewer.
<i>Iplex Pipelines</i>	<i>Iplex Pipelines</i>	Gate Valve Shroud Pipe, PVC, CI Sewer.
<i>Vinidex</i>	<i>Vinidex</i>	Spring Hydrant Shroud Pipe, PVC DWV Sewer.

**7.3. Hydrant Cover**

<b>Specifications</b>	WSA PS-292 Access Covers WSA PS-291 Access Covers for Water Supply
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**Non-Trafficable (Class B)**

Manufacturer	Distributor	Description
<i>Cadia</i>	<i>Cadia</i>	Hydrant Cover, non-trafficable (Class B), DI lid with recycled polyethylene surround.

**Trafficable (Class D)**

Manufacturer	Distributor	Description
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Spring Hydrant Cover & Frame, For Use in Asphaltic, Concrete and Nature Strip. CI.
<i>Pentair Water</i>	<i>Pentair Water</i>	Spring Hydrant Cover & Frame, For Use in Asphaltic, Concrete and Nature Strip. CI.

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## 8. Valves & Hydrants

### 8.1. 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 DN200, ARI Combination Model D-050.
<i>RMC Watermains</i>	<i>RMC Watermains</i>	Air Valve - Double, Gun Metal/CI/DI, 80 - 150, 140/160 HD. 80 - 150, 210 HD. Thermal Bonded Lining internal and external.
<i>Amiad Australia</i>	<i>Amiad Australia</i>	Air Valve, DN50 to DN200, ARI High Flow Combination Model D-060.
<i>Ventomat Australia</i>	<i>Ventomat Australia</i>	Air Valve - 25mm and 50 mm threaded BSP connections, Double Orifice, with anti-surge mechanism, high density polyethylene - Model RPS.
<i>Ventomat Australia</i>	<i>Ventomat Australia</i>	Air Valve - 25mm and 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 RBX.
<i>AVK / Glenfield</i>	<i>AVK / Glenfield</i>	Double Orifice 851 Aerokinetic PN 16 & PN 25 sizes 50mm to 150mm.
<i>Bermad Water Technologies</i>	<i>Bermad Water Technologies</i>	Air valve DI, DN50 to DN200, combination model C70-SP with surge protection.

### 8.2. Ball Valve

**Specifications** | WSA PS 276 Resilient Seated Ball Valves for Property Services

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### Meter Tap

Manufacturer	Distributor	Description
<i>Ryemetal</i>	<i>Ryemetal</i>	Ball Valve - Potable Water (Meter Tap) - DN20 right angle F x F valves with lockable handle - Model 7214.20 - DN20 flared compression nipple and nut with 'loctite' seal at valve inlet and 20mm MI standard NSW meter coupling.
<i>Ryemetal</i>	<i>Ryemetal</i>	Ball Valve - Potable Water (Meter Tap) - DN25 right angle F x F valves with lockable handle - Model 7214.25 - DN25 flared compression nipple and nut with 'loctite' seal at valve inlet and 25mm MI standard NSW meter coupling.
<i>Ryemetal</i>	<i>Ryemetal</i>	Ball Valve - Recycled Water (Meter Tap) - DN20 right angle F x F ball valve with lockable handle - Model 7210.20 - DN20 flared compression nipple and nut with 'loctite' seal at valve inlet. 20mm MI x 25 BSP FI meter coupling 'loctite' seal at valve outlet.
<i>Effebe Spa</i>	<i>Zetco Valves</i>	Ball Valve – Potable Water (Meter Tap) – DN20 right angle FI x Flared ball valve with lockable lever handle.
<i>Effebe Spa</i>	<i>Zetco Valves</i>	Ball Valve – Recycled Water (Meter Tap) – DN20 right angle FI x Flared ball valve with 'lilac' lockable lever handle.

### Main Tap

Manufacturer	Distributor	Description
<i>Ryemetal</i>	<i>Ryemetal</i>	Ball Valve - (Main Tap) DN20 and DN25 inline M x F ball valves for isolating potable and recycled water service mains - Model No 7310.20 (DN20) and 7310.25 (DN25).
<i>Effebe Spa</i>	<i>Zetco Valves</i>	Ball Valve – Potable Water (Main Tap) DN20 and DN25 M x F ball valves with brass T handle.
<i>Effebe Spa</i>	<i>Zetco Valves</i>	Ball Valve – Recycled Water (Main Tap) DN20 and DN25 M x F ball valves with 'lilac' T handle.

### 8.3. Gate Valve

<b>Specifications</b>	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
<b>Notes</b>	All valves to be clockwise closing and comply with AS2638.1 (Metal Seated) or AS2638.2 (Resilient Seated)

### Metal Seated

Manufacturer	Distributor	Description
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UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 22 of 25

<i>Pentair Water</i>	<i>Pentair Water</i>	Gate Valve, Metal seated, DI. DN100 to 600, Max Hd. 140/160m. Thermal Bonded Lining internal and external.
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**Resilient Seated**

<b>Manufacturer</b>	<b>Distributor</b>	<b>Description</b>
<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>AVK Australia</i>	<i>AVK Australia</i>	Gate valve, resilient seated, DI. DN80 to 600. Thermal Bonded Lining internal and external.
<i>Betta Fluid Machinery</i>	AVFI	Gate Valve, resilient seated, DI with FBE coating, DN50 to DN600. PN16, Flanged, Socket or Socket/Flanged.
<i>Pentair Water</i>	<i>Pentair Water</i>	Gate valve, resilient seated, DI. DN80 to 600. Thermal Bonded Lining internal and external. Tyco Auslite Gate Valve, resilient seated DN100/150 SOC-SOC FL-FL FI-SOC Tyco Auslite II Gate Valve, resilient seated DN100 to DN300 FL-FL
<i>E. Hawle Armaturenwerke</i>	Vinidex	Gate valve, resilient seated - (Mono Design) PN16 DN80 to DN200 FL/FL (Must meet FL/FL dimensions of AS2638).
<i>Shanghai Karon Machinery</i>	Challenger Valves & Actuators	Gate valve, resilient seated with fusion bonded polymeric coating internal/external. FI-FL DN080 – DN600 Soc-Soc DN100 – DN300
<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 DN080 – 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.

**Integral Bypass - Resilient Seated**

<b>Manufacturer</b>	<b>Distributor</b>	<b>Description</b>
<i>Pentair Water</i>	<i>Pentair Water</i>	Gate valve, resilient seated, DI. DN450/600. 2x150 Bypass.
<i>AVK Australia</i>	<i>AVK Australia</i>	Gate Valve, Resilient Seated Ductile Iron DN600 - Epoxy surface coating internal and external DN600 (DN150 integral

UNCONTROLLED IF PRINTED

Document: QPA 003 – Approved Products and Materials - Water

Revision: 3.4

Page 23 of 25

	bypass).
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### Thrust Restraint - Resilient Seated

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	Auslite DN100 and DN150 resilient seated gate valves incorporating the thrust restraint mechanism.

### 8.4. Hydrant

**Specifications** | WSA PS 267 Hydrants (Spring) for Water Supply

Manufacturer	Distributor	Description
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Spring Hydrant, DI. 80 - 100 STD. 80 - 100 HP. Thermal Bonded Lining internal and external.
<i>Pentair Water</i>	<i>Pentair Water</i>	Spring Hydrant, DI. 80 - 100 STD. 80 - 100 HP. Thermal Bonded Lining internal and external.
<i>Toowoomba Metal Technologies</i>	<i>Toowoomba Metal Technologies</i>	Spring Hydrant, DI. 80 - 100 STD. 80 - 100 HP. Thermal Bonded Lining internal and external.
<i>Alpine Flow Control</i>	<i>Derwent Industries</i>	Spring Hydrant, DI DN80 and DN100. Fusion coating.
<i>Betta Fluid Machinery</i>	<i>Clover Pipelines</i>	Spring Hydrant, DI. 80 - 100 STD. 80 - 100 HP. Thermal Bonded Lining internal and external.

### 8.5. Hydrant Control Valve

**Specifications** | WSA PS 267 Hydrants (Spring) for Water Supply

Manufacturer	Distributor	Description
<i>Pentair Water</i>	<i>Pentair Water</i>	Isolator Valve for use with air valve screw hyd, spring hyd. DI/CI. 80 - 100 STD. 80 - 100 HP. Thermal Bonded Lining internal and external.
<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Isolator Valve for use with air valve screw hyd, spring hyd. DI/CI. 80 - 100 STD. 80 - 100 HP. Thermal Bonded Lining internal and external.

### 8.6. Valve Extension Spindle

**Specifications** | WSA PS 262 Extension Spindles Valves, Gate  
WSA PS 269 Extension Spindles for Valves, General

Manufacturer	Distributor	Description
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<i>Crevet Pipelines</i>	<i>Crevet Pipelines</i>	Gate Valve extension spindle, Steel.
<i>Pentair Water</i>	<i>Pentair Water</i>	Gate Valve extension spindle, Steel.

**UNCONTROLLED IF PRINTED**

**Document: QPA 003 – Approved Products and Materials - Water**

**Revision: 3.4**

**Page 25 of 25**