

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

Recycled Water

For Mains up to DN 375

ALL MINOR ITEMS NOT COVERED IN DETAIL IN THIS CATALOGUE TO BE IN ACCORDANCE WITH APPROPRIATE AUSTRALIAN STANDARD.

Further information on products and materials is available on the WSAA web site

www.wsaa.asn.au

PIPE MATERIALS USED ON RECYCLED WATER MAINS ARE TO BE AS SPECIFIED ON THE ENDORSED DESIGN DRAWINGS.

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

Document Update Information

| Date | Change Type | Page Number(s) | Details |
|---------------------------|---------------------|-----------------------|---|
| 1 st Dec 2009 | Addition | 4 | Cromford and Poly Pipe added |
| 7 th Sept 2011 | Addition | 3 | Authorised Welders and Fabricators List Amended |
| 31 October 12 | Update | All | Aligned with new WSA 03-2011 V3.1 Water Code of Australia |
| 31 October 12 | Addition | 1 | Addition of pipe suppliers. |
| 31 October 12 | Name Change | General | Change of name Pentair Water formally known as Tyco Water. |
| 7 June 13 | Addition and update | General | Derwent Industries Fittings, Gillies Metaltech Ltd Fittings, "Maxiflo" Resilient Seated Gate Valves and The Poly People added |
| August 2014 | Manufacturer Added | 4 | DM Plastics and Steel Pty Ltd |
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AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

PVC Pressure Pipe for Recycled Water

Where PVC pressure pipe is required for Recycled Water main applications it will be detailed on the approved design drawings. Size range - 100, 150, 200, 250, 300 & 375 mm diameters. Pipe sizes 450, 525 and 600 are also available from the larger manufacturers and may be used with specific approval from SA Water.

Unless specifically approved otherwise by SA Water all PVC pipe installations for recycled water shall meet the following requirements:

- All pipes to be **PURPLE** in colour.
- All pipes are to be Series 2 (CIOD). See relevant Australian Standard.
- Minimum class of pipe to be used is **CLASS 16 unless specific approval to use a lower class has been given by SA Water**
- All pipes and fittings shall be Rubber Ring Jointed

Authorised Manufacturers

Modified PVC (PVC-M)

| | | |
|-------------------|------------|---------------------------------------|
| Iplex Pipelines - | Blue Rhino | |
| Vinidex | Hydro Blue | |
| Pentair Water | Tuf-Flo | (Only available in DN100 to DN375) |
| Pipemakers | Enviromain | (Only authorised for DN100 and DN150) |
| Micron Pipelines | | (Only authorised for DN100 and DN150) |

Oriented PVC (PVC-O)

| | | |
|-------------------|-------------|--|
| Iplex Pipelines - | Apollo Blue | (DN100 to DN300) |
| Vinidex | Supermain | |
| Micron Pipelines | | (DN100 to DN375 PN16 & PN20 note specific approval is required by SA Water for PN20) |
| Pipemakers | | (DN100 to DN375 PN16 & PN20 note specific approval is required by SA Water for PN20) |
| Pentair Water | Opti-Flo | (DN100 and DN150) |

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Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS1477 PVC-U Pipes and fittings for pressure applications
- AS 2032 Code of practice for the installation of PVC pipe systems
- AS/NZS 4441(Int) PVC-O Pipes for pressure applications
- AS/NZS 4765(Int) PVC-M Pipes for pressure applications
- WSA PS 209, 210 & 211 PVC Pipe for Water Supply

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

Ductile Iron Cement Lined Pipe (DICL)

Where DICL pipe is required for Recycled Water main applications it will be detailed on the approved design drawings.

When ductile iron pipe is used for Recycled Water it MUST be sleeved with polyethylene sleeving coloured PURPLE.

Ductile iron pipe that is manufactured in accordance with the current AS/NZS 2280-1999 uses a K(n) value to describe the class of pipe e.g. K9. The pipe uses a rubber ring jointing system and is internally lined with a cement mortar as specified in AS/NZS2280. SA Water has nominated class K9 for all reticulation applications with an operating pressure less than PN16.

A new range of Ductile Iron pipe is being introduced by Pentair Water which is called the Tyton Series 2100 pipe. This pipe has a thinner wall and reduced cement lining, but the external diameter is equivalent to the OD of the current series pipe (K series for DICL and Series 2 for PVC). This pipe has a rating of PN20 or PN 35 and Authorisation has been given for use of PN 35 pipe in SA Water's Infrastructure. **PN 20 pipe is NOT Authorised, but may to be used in limited applications providing specific approval is given by SA Water.**

Size range - 100, 150, 200, 250, 300 & 375mm diameters. Larger sizes to DN750 are also available and may be used on trunk main installations.

Authorised Manufacturer

- Pentair Water K9 Series and Series 2100 PN 35. (See PN 20 note above)

Pipe Sleeving - Purple

- Pentair Water

Restrained Joint Sealing Rings

- Pentair Water Restrained Joint (Tyton Lok)

Underground Warning Tape for Restrained Joints (Tyton Lok)- Pink

- Pentair Water

Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS 2280 Ductile iron pressure pipes and fittings
- AS 3680 Polyethylene sleeving for ductile iron pipelines
- AS 3681 Guidelines for the application of polyethylene sleeving to ductile iron pipelines and fittings
- WSA PS 200 Ductile Iron Pipe for Water Supply

The use of restrained (*Tyton Lok*) joints is authorised and in some instances may be deemed a requirement. Where restrained joints are utilised, a pink marker tape shall be laid on the overlay sand above the pipe, to ensure that when future repairs are done, restrained joints will be installed.

Refer to Water Construction Practice Manual Section B and the manufacturer for allowable application details, minimum restrained lengths and installation details.

*For more details about the manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

Steel Cement Lined Pipes (SCL) including Sintacote

SCL pipeline will be directed for use in specific applications including larger diameter pressure mains, dog-legs, pipe specials and crossing creek beds and gullies.

When SCL pipe is used for Recycled Water it MUST be sleeved with polyethylene sleeving coloured PURPLE.

Where there is a requirement to use SCL pipe, special attention must be given to the coating system used and reinstatement of any damage.

Alternative Description

- MSCL pipe

Authorised Manufacturers

- Pentair

Allowable Joint types

- Rubber Ring
- Spherical Slip-in (welded)
- Ball and Socket (welded)
- Plain ended Butt Joint (welded)
- Butt Joint with Collar (welded)
- Flanged (in accordance with AS4087)

Authorised Fabricators of SCL pipework and fittings

- Water Engineering Technologies (SA Water Berri and Crystal Brook workshops)
- Lincoln Engineering
- Ottoway Engineering
- Contract Engineering SA
- Civil Mechanical Services Pty Ltd

Authorised Field Welders for SCL pipework and fittings

- Water Engineering Technologies (SA Water Berri and Crystal Brook workshops)
- Ottoway Engineering
- Lincoln Engineering
- N&A Mobile Welding Services
- Contract Engineering SA
- Civil Mechanical Services Pty Ltd

Applicable Australian Standards, WSAA Specifications, etc

- AS 1579 Arc welded steel pipes and fittings for water and waste water
- AS 1281 Cement mortar lining of steel pipes and fittings
- WSA PS 203 Steel pipe for Water Supply

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

Polyethylene Pipe for Recycled Water

Polyethylene pipe systems are authorised for use, but are predominantly used for directional boring and in country regions where long runs with minimal tappings are required. Where indicated in the WSCM, a detectable underground warning tape shall be laid on top of the embedment material and above the polyethylene pipe to allow the pipe to be located in the future.

Pipe Classification

When ordering specify (in accordance with AS/NZS 4130):

- PE 80 pipe - Type B - PN 16 (for sizes greater than 25mm) or
- PE 100 pipe - PN 16

Colour

Pipe - **Solid PURPLE (preferred) or black with wide PURPLE stripes**

Fittings - Black

Allowable Pipe Sizes

| | | |
|-------|---------------|---------------------------|
| DN 25 | - Connections | For DN20 and DN25 Meters |
| DN 40 | - Connections | For DN32 and DN40 Meters |
| DN63 | - Connections | For DN50 Meters |
| DN63 | - Cul de Sacs | Comparable to DN50 Copper |
| DN125 | - Mains | Comparable to DN100 DICL |
| DN180 | - Mains | Comparable to DN150 DICL |
| DN225 | - Mains | Comparable to DN200 DICL |

Alternate sizes are available and may be used in special applications with SA Water approval

Authorised Manufacturers

Pipe

- Iplex Pipelines
- Vinidex
- PPI
- Cromford Pipe (formally AFPM)
- Poly Pipe
- DM Plastics & Steel

Butt Welding - All Sizes

- Factory Butt welding only is permitted unless authorised by SA Water.

Authorised Field Butt Welders for PE pipework and fittings

- Dalkeith Plastics Pty. Ltd.
- Statewide Poly Service Pty. Ltd

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS*Polyethylene Pipe and Fittings (Continued)***Fabrication of PE pipe Specials**

- Fusion Plast Australia
- The Poly People
- Dalkeith Plastics Pty. Ltd.
- Statewide Poly Service Pty. Ltd

Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS 4130 Polyethylene pipes for pressure applications
- AS 2033 Installation of polyethylene pipe systems (For minimum cover refer Water Supply Construction Manual)
- WSA PS 207 Polyethylene (PE) Pipe for Water Supply

For more details about these manufacturers refer to the **Manufacturers** section of this manual.

Under Pressure Tapping Service

Under pressure tapping is a system which allows an offtake (\geq DN 80) to be provided from a reticulation or trunk main without the requirement to shut down the main. The service includes the provision of an authorised SS Flanged Offtake and an isolating valve.

The installation is to be carried out in accordance with WSAA “2005 Under Pressure Cut-In Connection of Pressure Pipelines \geq DN 80” which is a supplement to the Water Supply Code WSA 03-2002 Version 2.3. (available free from <https://www.wsaa.asn.au/frameset2.html> - select Bookshop then Public Orders then enter PCØ18 into search box).

Authorised Tapping Service companies require a fully documented Quality Assurance Certification which covers the full under pressure tapping service.

Authorised Under Pressure Tapping Companies

- Complete Tapping Service
- Tapping Systems Australia

Applicable WSAA Standards

- WSA 03 Water Supply Code of Australia

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Ductile Iron Fittings
(FBE Coated)


Alternative Description

| Nom. Size DN | Products | NIBF (Iplex) | Pentair Water | Dobbie Dico | Mallet Foundry | Vinidex | Derwent Industries | Gillies Metaltech Ltd |
|-----------------|------------|-----------------|------------------|----------------|-------------------|---------|-----------------------|-----------------------------|
| 100 | | * | * | * | * | * | * | * |
| 150 | All DICL | * | * | * | * | * | * | * |
| 200 | Fittings | * | * | * | * | | * | |
| 250 | listed in | * | * | * | * | | * | |
| 300 | SA Water's | * | * | * | * | | * | |
| 375 | WSM # | * | * | | * | | * | |

Authorised Products List - Mains Section

Requirements

Standard FBE coated water fittings as authorised for potable water are authorised for use in Recycled Water systems.

Fittings shall be manufactured in accordance with AS2280.

Blue or Black coloured fitting are acceptable for use in Recycled Water systems.

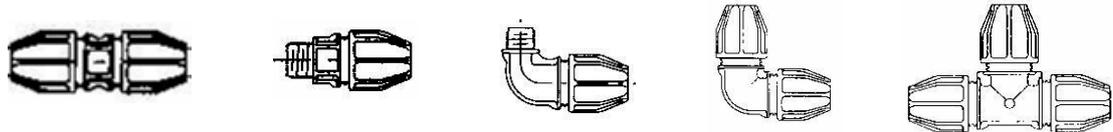
Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS2280 Ductile iron pressure pipes and fittings
- WSA PS 201 Ductile Iron Fittings for Water Supply

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Polyethylene Fittings
Mechanical Couplings


PE Couplings



Tita Coupling (Brass)

 Alternative Description
 PE Joiners

| Nom. Size DN | Authorised Products | George Fischer | Magnum (Iplex) | Philmac | Plasson | STP (Fusion Plast Australia) | Tita Coupling (Brass) |
|-----------------|---|-------------------|-------------------|---------|---------|---------------------------------------|-----------------------------|
| 25 | | * | * | * | * | * | * |
| 40 | All PE Products listed in SA Water's WSM # | * | * | * | * | * | * |
| 50 | | * | * | * | * | * | * |
| 73 | | * | * | * | * | * | * |
| 90 | | * | * | * | * | * | * |
| 110 | | * | * | * | * | * | * |

Authorised Products List - Mains and Connection Sections

Requirements

Fittings shall be produced in accordance with the appropriate Australian Standards

Standard black potable (drinking) water fittings are acceptable for use in Recycled Water systems.

Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS 4129 Fittings for polyethylene pipe for pressure applications
- WSA PS 208 Polyethylene (PE) Pressure Fittings for Water Supply-Moulded

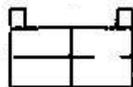
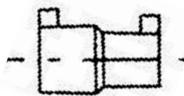
 For more details about these manufacturers refer to the **Manufacturers** section of this manual.

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Polyethylene Fittings

Electrofusion Couplings


Standard

Reducing
Also Available

- Tees
- 45 and 90 Bends
- Stub Flanges

Alternative Description

| Nom. Size DN | Products | George Fischer | Fusion Plast Australia | Philmac (Durafuse) | Plasson | Rollma- plast |
|-----------------|------------|-------------------|---------------------------|-----------------------|---------|------------------|
| 25 | | * | * | * | * | * |
| 40 | | * | * | * | * | * |
| 50 | | * | * | * | * | * |
| 73 | All PE | * | * | * | * | * |
| 90 | Products | * | * | * | * | * |
| 110 | listed in | * | * | * | * | * |
| 140 | SA Water's | * | * | * | * | * |
| 180 | WSM # | * | * | * | * | * |
| 225 | | * | * | * | * | * |
| 280 | | * | * | * | * | * |
| 315 | | * | * | * | * | * |

Authorised Products List - Mains & Connection Section

Requirements

SA Water will only accept Electrofusion joints where the ends of the pipes to be inserted into the coupling have been shaved back to virgin material using a commercially available mechanical scraper, immediately prior to making the joint.

Fittings shall be produced in accordance with the appropriate Australian Standards

Standard black potable (drinking) water fittings are acceptable for use in Recycled Water systems.

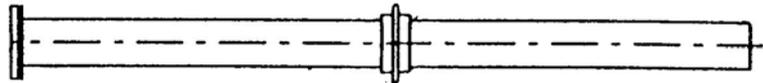
Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS 4129 Fittings for polyethylene pipe for pressure applications
- WSA PS 208 Polyethylene (PE) Pressure Fittings for Water Supply-Moulded

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

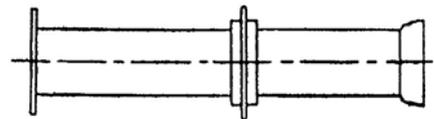
***Extension Pipe - Flange/Spigot
 With Puddle Flange***


Note : Pipework is Ductile Iron.

| Nom. Size DN x Length | SA Water Stock No. | NIBF (Iplex) | Pentair Water |
|--------------------------|-----------------------|-----------------|------------------|
| 100 x 2700 | 4730-5111 | * | * |
| 150 x 2700 | 4730-5112 | * | * |
| 200 x 2700 | 4730-5113 | * | * |
| 250 x 3100 | ----- | * | * |
| 300 x 3100 | ----- | * | * |
| 375 x 3100 | ----- | * | * |

Highlighted items are included in SA Water's Fittings Contract PC1112

SA Water Product Description

***Extension Pipe - Flange/Socket
 With Puddle Flange***

Alternative Description

Thrust Connector

Note : Pipework is Ductile Iron.

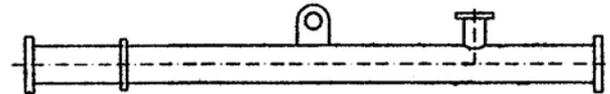
 Standard Product is cast DI with FBE coating, alternatively they can be manufactured from DICL pipe where
 L = Length to suit application - Minimum length shall be 450 mm

| Nom. Size DN x Length | SA Water Stock No. | NIBF (Iplex) | Pentair Water |
|--------------------------|-----------------------|-----------------|------------------|
| 100 - 750 x L | ----- | * | * |
| 100 x 450 Casting | 4730-5115 | 100 x 600 long | * |
| 150 x 450 Casting | 4730-5116 | *150 x 600 long | * |
| 200 x 450 Casting | 4730-5117 | *150 x 600 long | * |
| 250 x 600 Casting | ----- | * | |
| 300 x 915 Casting | ----- | * | |
| 375-600 x 900 Casting | ----- | * | |

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

***Extension Pipe - Flange/Flange
With Thrust Ring & 80mm
Flanged Fire Plug Offtake***



Note : Ottoway Engineering Pipework is Mild Steel Cement Lined (MSCL)
 Fusion Plast, The Ploy People and Statewide Poly pipework is Butt Welded PE

| Nom. Size DN | SA Water Stock No. | Ottoway Engineering | Fusion Plast | The Poly People | Statewide Poly |
|-----------------|-----------------------|------------------------|--------------|--------------------|-------------------|
| 100 | 4730-4976 | * | * | * | * |
| 150 | 4730-4977 | * | * | * | * |
| 200 | 4730-5099 | * | | * | * |
| 250 | ----- | * | | * | * |
| 300 | ----- | * | | * | * |
| 375 | ----- | * | | * | * |

Can also be assembled using flanged DICL fittings

Requirements

SA Water will only accept Extension pipes authorised by SA Water Infrastructure Standards Unit and specifically manufactured for water industry applications.

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Multi Fit Couplings
(FBE Coated Body and End Clips)


| Type | Authorised | AVK | Pentair Water |
|-----------------------|--|-----|---------------|
| Straight | All couplings listed in SA Water's WSM # | * | * |
| Stepped | | * | * |
| Adaptor Flange | | * | * |

Authorised Products List - Mains Section

Requirements

SA Water will only accept couplings which are FBE coated in accordance with AS/NZS 4158-1 and all other metal components are manufactured from Grade 316 Stainless Steel.

Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS4158-1 Polymeric coatings on valves and fittings for water industry purposes – Thermal bonded
- WSA PS 311 Mechanical Couplings, Unrestrained

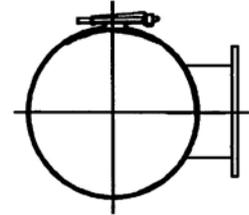
*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Flanged Offtakes

Alternative Description

Watgas Flanged Collar
***Flanged Offtakes 316 Stainless Steel**

Note:

- **Size on Size drilling not permitted**
- **Only authorised Under Pressure Tapping Service Companies are to install these fittings**

| Size DN x dn (Br) | SA Water Stock No. | R.M.C. # | Pentair Water (Wang) |
|----------------------|-----------------------|--|----------------------------|
| 100 x 100 | 4730-4829 | 100 x 80 plus 80 - 100 Fl.- Soc. Taper | |
| 150 x 80 | 4730-4830 | * | * |
| 150 x 100 | 4730-4715 | * | * |
| 200 x 100 | 4730-4831 | * | * |
| 200 x 150 | 4730-4832 | | * |
| 250 x 100 | ----- | * | * |
| 250 x 150 | ----- | | * |
| 300 x 100 | ----- | * | * |
| 300 x 150 | ----- | | * |
| 300 x 200 | ----- | | * |
| 300 x 250 | ----- | | * |
| 375 x 100 | | | * |
| 375 x 150 | | | * |
| 375 x 200 | | | * |
| 375 x 250 | | | * |
| 375 x 300 | | | * |

Applicable Australian Standards, WSAA Specifications, etc

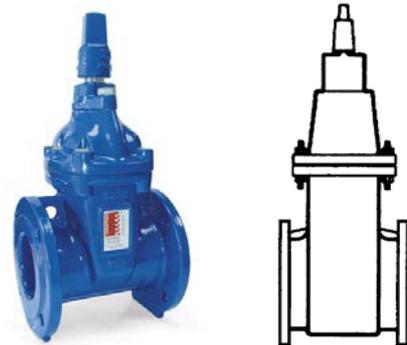
- AS 4181 Stainless steel clamps for waterworks purposes
- WSA PS 313 Clamps Off-Take for Under pressure Connections

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

**Valve - Resilient Seat
 Gate Valve Double Flanged
 (Manually Operated Valve to AS2638 Part 2
 Square drive and clockwise closing)**


For Buried Applications

Alternative Description

*Sluice Valve - Flanged
 Stop Valve - Flanged*

| Nom. Size DN (Pressure) | SA Water Stock No. (1.6 MPa) | AVK (Iplex) Series 57/40 (1.6 MPa) | Pentair (1.6 MPa) | Karon (Challenge r) (1.6MPa) | AVK (Iplex) PN25 (2.5 MPa) Series 57/80 Table "F" Flanges | AAP Industries Pty Ltd (Maxiflo) |
|----------------------------|------------------------------------|--|----------------------|---------------------------------------|--|--|
| | | | | | Interim Authorisation | Interim Authorisation |
| 50 (1.6 MPa) | | * | | | | |
| 65 (1.6 MPa) | | * | | | | |
| 80 (1.6 MPa) | | * | * | * | * | * |
| 100 (1.6 MPa) | | * | Auslite | * | * | * |
| 150 (1.6 MPa) | | * | Auslite | * | * | * |
| 200 (1.6 MPa) | | * | * | * | * | * |
| 225 (1.6 MPa) | | * | * | * | * | * |
| 250 (1.6 MPa) | | * | * | * | * | * |
| 300 (1.6 MPa) | | * | * | * | * | * |

Requirements

SA Water requires all valves used for Recycled Water applications to have the spindle cap and valve dome to be coloured **PURPLE** and have a **RED** dot on the top of the spindle cap to signify that the valve is **CLOCKWISE** closing.

Applicable Australian Standards, WSAA Specifications, etc

- AS 2638-2 Gate Valves for Water works purposes
- WSA PS 260 Gate Valves – Resilient Seated

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

***Valve - Resilient Seat Gate Valve
with PE Pipe Connection Ends
(Pressure Rating 1.6 MPa
Square drive and clockwise closing)***



Series 36/80



Series 01/70

For Buried Applications

| Nom. PE Pipe Size (Equivalent Valve size) | SA Water Stock No. | AVK (Iplex) |
|--|-----------------------|----------------|
|--|-----------------------|----------------|

SERIES 36/80 (Fusion or Butt welded applications)

| | | |
|-------------------|--|---|
| 90 | | ★ |
| 110 | | ★ |
| 125 (DN100 equiv) | | ★ |
| 180 (DN150 equiv) | | ★ |
| 250 (DN200 equiv) | | ★ |
| 315 (DN250 equiv) | | ★ |

SERIES 01/70 (Tensile Resistant PE ends – Restrained Joint)

| | | |
|-------------------|--|---|
| 90 | | ★ |
| 110 | | ★ |
| 125 (DN100 equiv) | | ★ |
| 180 (DN150 equiv) | | ★ |
| 250 (DN200 equiv) | | ★ |
| 315 (DN250 equiv) | | ★ |

Applicable Australian Standards, WSAA Specifications, etc

- AS 2638-2 Gate Valves for Water works purposes (valve body only)
- WSA PS 260 Gate Valves – Resilient Seated

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Valve - Butterfly
Pressure Rating 1.6 MPa

Wafer

Lugged

Double Flanged

 Note : **Not for buried applications**

| Type | Authorised | AVK (Iplex) | Keystone Pentair | Ebro | Turnflo |
|---------------------------|---|----------------|------------------|------|---------|
| Wafer | Full range of Butterfly valves listed in SA Water's WSM # | * | * | * | * |
| Lugged | | * | * | | |
| Double Flanged | | * | * | * | |

Authorised Products List - Mains Section

Note

Because these valves are not used in buried applications and therefore the adjacent pipework will identify the main as being recycled they do not need to be coloured purple.

Applicable Australian Standards, WSAA Specifications, etc

- AS 4795 Butterfly valves for waterworks purposes
- WSA PS 263 Butterfly Valves

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Valve - Non Return
(Pressure Rating 1.6 MPa)
** Not for buried applications*



Wafer



Swing Check

| Type | Authorised | AVK (Iplex) | Pentair Water | Crane (Iplex) | Keystone Pentair (Keystone 86) |
|-------------|---|-------------|---------------|---------------|--------------------------------|
| Wafer | Full range of Non-return valves listed in SA Water's WSCM # | | | * | * |
| Swing Check | | * | * | | |

Authorised Products List - Mains Section

Applicable Australian Standards, WSAA Specifications, etc

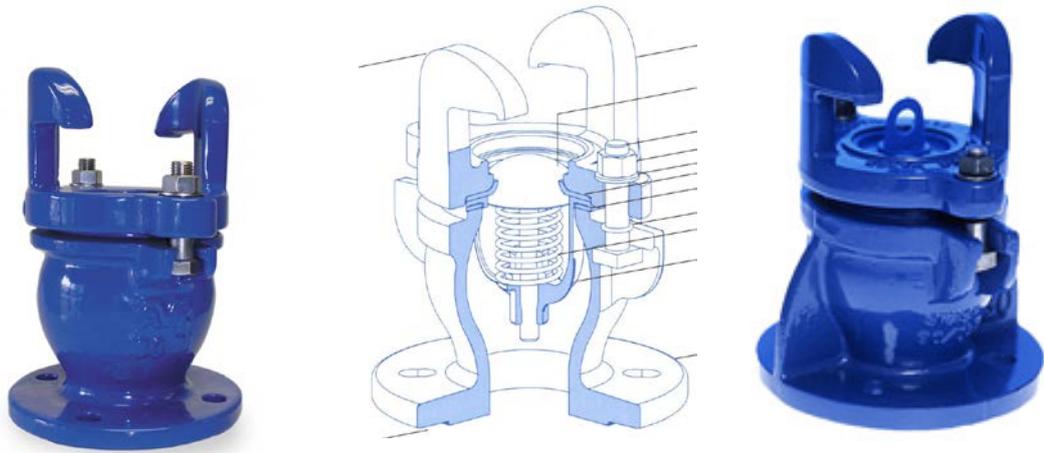
- AS 4794 Non-return valves - Swing check and tilting disc
- WSA PS 264 Non-Return (Reflux) Valves

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Air Release Hydrant Hydrant - Below Ground



Alternative Description

Swash Spring Hydrant

| Nom. Size DN | SA Water Stock No. | AVK (Iplex) | Pentair Water |
|-----------------|-----------------------|----------------|------------------|
| 80mm (1.6 MPa) | | ★ | ★ |

Requirements

This hydrant requires a special standpipe to allow it to be operated

SA Water requires all hydrants used for Recycled Water applications to have the top plate (includes lock down lugs) to be coloured **PURPLE**.

Applicable Australian Standards, WSAA Specifications, etc

- AS 3952 Spring Valve Hydrants
- WSA PS 267 Hydrants (Spring) for Water Supply

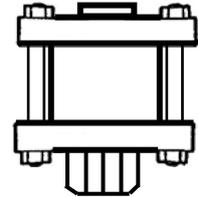
*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Valve - Air Release

(Pressure Rating 1.6 and 2.5 MPa)



| Nom. Size DN (Pressure) | Stock Number | AVK (Iplex) (Series 851) 1.6 MPa # | AVK (Iplex) (Series 851) 2.5 MPa # | Ventomat (RBX Series) | |
|----------------------------|-----------------|--|--|--------------------------|--|
| 25 (Screwed BSP) | 4820-3154 | ★ | | ★ | |
| 50 (Screwed BSP) | 4820-0146 | ★ | ★ | ★ | |
| 80 | 4820-3155 | ★ | ★ | ★ | |
| 100 | 4820-3156 | ★ | ★ | ★ | |
| 150 | 4820-3157 | ★ | ★ | ★ | |

Highlighted items are included in SA Water's Valve Contract PC1111
 # Flanges to AS 4087 and coated to AS 4158

Note

Because these valves are not used in buried applications and therefore the adjacent pipework will identify the main as being recycled they do not need to be coloured purple.

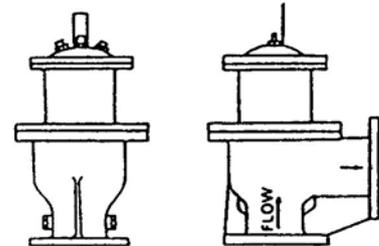
Applicable Australian Standards, WSAA Specifications, etc

- WSA 106 Air Valves
- WSA PS 265 Air Valves for Water Supply

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

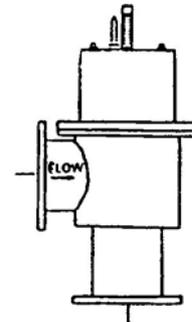
SA Water Product Description ***Valve - Hydraulic Operated Control
(Double Flanged - Stainless Steel)***



Alternative Description
HOCV

| Size DN Pipe | SA Water Stock No. | AVK |
|-----------------|-----------------------|-----|
| 100 (1.4 MPa) | 4820-0739 | * |
| 200 (1.4 MPa) | 4820-0740 | * |

SA Water Product Description ***Valve - Hydraulic Operated Sleeve
(Double Flanged - Stainless Steel)***



Alternative Description
HOSV

| Size DN Pipe | AVK |
|-----------------|-----|
| 200 (1.4 MPa) | * |
| 200 (1.7 MPa) | * |
| 250 (1.4 MPa) | * |
| 250 (1.7 MPa) | * |
| 300 (1.4 MPa) | * |
| 300 (1.7 MPa) | * |

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

***Jointing Kits with
Stainless Steel, High Tensile or Galvanised Bolts***

 Alternative Description
Gasket Set

Includes EPDM Gasket plus Bolts, Nuts and Washers to suit

| Size DN Pipe | 316 Stainless | Galvanised | High Tensile | Iplex | Keystone Pentair | The Poly People |
|--------------------|-----------------------|-----------------------|----------------------|-------|---------------------|--------------------|
| | Steel Bolts | Bolts | Bolts | | | |
| | SA Water Stock No. | SA Water Stock No. | SA Water Stock No | | | |

To suit PN16 (1.6MPa) Flanges

| | | | | | | |
|------|-----------|-----------|--|---|---|---|
| 50 | 5330-2024 | 5330-2001 | | * | | * |
| 65 | 5330-2025 | 5330-2002 | | * | | * |
| 80 | 5330-2026 | 5330-2003 | | * | * | * |
| 100 | 5330-2027 | 5330-2004 | | * | * | * |
| 125 | 5330-2028 | 5330-2005 | | * | | * |
| 150 | 5330-2029 | 5330-2006 | | * | * | * |
| 200 | 5330-2030 | 5330-2007 | | * | * | * |
| 225 | 5330-2031 | 5330-2008 | | * | * | * |
| 250 | 5330-2032 | 5330-2009 | | * | * | * |
| 300 | 5330-2033 | 5330-2010 | | * | * | * |
| 350 | 5330-2034 | 5330-2011 | | * | * | * |
| 375 | 5330-2035 | 5330-2012 | | * | * | * |
| 400 | 5330-2036 | 5330-2013 | | * | * | * |
| 450 | 5330-2037 | 5330-2014 | | * | * | * |
| 500 | 5330-2038 | 5330-2015 | | * | * | * |
| 525 | 5330-2039 | 5330-2016 | | * | | * |
| 600 | 5330-2040 | 5330-2017 | | * | * | * |
| 700 | 5330-2041 | 5330-2018 | | * | * | * |
| 750 | 5330-2042 | 5330-2019 | | | | * |
| 800 | 5330-2043 | 5330-2020 | | | | |
| 900 | 5330-2044 | 5330-2021 | | | | |
| 1000 | 5330-2045 | 5330-2022 | | | | |
| 1200 | 5330-2046 | 5330-2023 | | | | |

To suit PN35 (3.5MPa) Flanges

| | | | | | | |
|-----|-----------|-----------|-----------|---|---|---|
| 80 | 5330-2061 | 5330-2048 | 5330-2074 | * | * | * |
| 100 | 5330-2062 | 5330-2049 | 5330-2075 | * | * | * |
| 125 | 5330-2063 | 5330-2050 | | * | | * |
| 150 | 5330-2064 | 5330-2051 | 5330-2076 | * | * | * |
| 200 | 5330-2065 | 5330-2052 | 5330-2077 | * | * | * |
| 225 | 5330-2066 | 5330-253 | 5330-2078 | * | * | * |
| 250 | 5330-2067 | 5330-2054 | 5330-2079 | * | * | * |

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS
Jointing Kits (continued)

| Size DN Pipe | 316 Stainless | Galvanised | High Tensile | Iplex | Keystone Pentair | The Poly People |
|--|-----------------------|-----------------------|----------------------|-------|---------------------|--------------------|
| | Steel Bolts | Bolts | Bolts | | | |
| | SA Water Stock No. | SA Water Stock No. | SA Water Stock No | | | |
| <i>To suit PN35 (3.5MPa) Flanges (Continued)</i> | | | | | | |
| 300 | 5330-2068 | 5330-2055 | 5330-2080 | * | * | * |
| 375 | 5330-2069 | 5330-2056 | 5330-2081 | * | * | * |
| 400 | 5330-2070 | 5330-2057 | | * | * | * |
| 450 | 5330-2071 | 5330-2058 | 5330-2082 | * | * | * |
| 500 | 5330-2072 | 5330-2059 | 5330-2083 | * | * | * |
| 600 | 5330-2073 | 5330-2060 | 5330-2084 | * | | * |

Wafer Butterfly Valves

| | | | | | | |
|------|-----------|-----------|--|---|---|---|
| 50 | 5330-210 | 5530-2085 | | * | * | * |
| 65 | 5330-210 | 5530-2086 | | * | * | * |
| 80 | 5330-2109 | 5530-2087 | | * | * | * |
| 100 | 5330-2110 | 5530-2088 | | * | * | * |
| 125 | 5330-2111 | 5530-2089 | | | * | |
| 150 | 5330-2112 | 5530-2090 | | * | * | * |
| 200 | 5330-2113 | 5530-2091 | | * | * | * |
| 250 | 5330-2114 | 5530-2092 | | * | * | * |
| 300 | 5330-2115 | 5530-2093 | | * | * | * |
| 350 | 5330-2116 | 5530-2094 | | | * | |
| 375 | 5330-2117 | 5530-2095 | | * | | * |
| 400 | 5330-2118 | 5530-2096 | | * | * | * |
| 450 | 5330-2119 | 5530-2097 | | * | * | * |
| 500 | 5330-2120 | 5530-2098 | | | * | |
| 525 | 5330-2121 | 5530-2099 | | * | | * |
| 600 | 5330-2122 | 5530-2100 | | * | * | * |
| 700 | 5330-2123 | 5530-2101 | | | | |
| 750 | 5330-2124 | 5530-2102 | | | | |
| 800 | 5330-2125 | 5530-2103 | | | | |
| 900 | 5330-2126 | 5530-2104 | | | | |
| 1000 | 5330-2127 | 5530-2105 | | | | |
| 1200 | 5330-2128 | 5530-2106 | | | | |

Lugged Butterfly Valves

| | | | | | | |
|-----|-----------|-----------|--|---|--|---|
| 50 | 5530-2143 | 5530-2129 | | * | | * |
| 65 | 5530-2144 | 5530-2130 | | * | | * |
| 80 | 5530-2145 | 5530-2131 | | * | | * |
| 100 | 5530-2146 | 5530-2132 | | * | | * |
| 125 | 5530-2147 | 5530-2133 | | * | | * |
| 150 | 5530-2148 | 5530-2134 | | * | | * |
| 200 | 5530-2149 | 5530-2135 | | * | | * |
| 250 | 5530-2150 | 5530-2136 | | * | | * |
| 300 | 5530-2151 | 5530-2137 | | * | | * |
| 350 | 5530-2152 | 5530-2138 | | * | | * |
| 400 | 5530-2153 | 5530-2139 | | * | | * |
| 450 | 5530-2154 | 5530-2140 | | * | | * |
| 500 | 5530-2155 | 5530-2141 | | * | | * |
| 600 | 5530-2156 | 5530-2142 | | * | | * |

Highlighted items are included in SA Water's Valve Contract PC1111

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Valve - Spindle Extension

Alternative Description

Spindle Extension Valve


| Extension Nominal Length (mm) | SA Water Stock No. | Iplex | Hadaway | Pentair | The Poly People |
|-------------------------------|--------------------|-------|---------|---------|-----------------|
| 150 | | * | * | * | * |
| 300 | | * | * | * | * |
| 450 | | * | * | * | * |
| 600 | | * | * | * | * |
| 750 | | * | * | * | |
| 900 | | * | * | * | |
| 1050 | | * | * | * | |
| 1200 | | * | * | * | |

Spindle (or at least the spindle cap equivalent) to be coated or painted **PURPLE** with a **RED** dot on top of spindle cap to signify Clockwise closing.

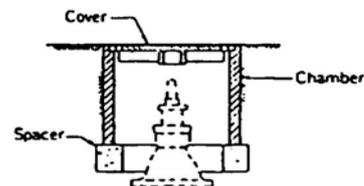
Applicable Australian Standards, WSAA Specifications, etc

- AS 2638 Gate Valves for Water works purposes
- WSA PS 262 Extension Spindles for Gate Valves

*For more details about these manufacturers refer to the **Manufacturers** section of this manual.*

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Street Box Assembly - Lightweight


Alternative Description

Poly Street Box

| Item | SA Water Stock No. | BIA (Bianco PCP) | Pentair Water | Vinidex | WASA (Cooke Pre Cast) |
|------------------------|--------------------|------------------|---------------|---------|-----------------------|
| Cover (One Piece Lid) | 5680-0312 | * | * | | |
| Polyethylene Chamber # | 5680-0379 | | | * | |
| Spacer | | | | | |
| 600 dia x 75 thick | 5680-0072 | * | | | * |
| 600 dia x 140 thick | 5680-0049 | * | | | * |

This Chamber is **NOT** designed for road use

The frames for this product are the same as for Potable Water. The covers are the same design, but have different markings and are coated/painted **PURPLE**.

Cover to be marked “**RECYCLED WATER**” or “**RECLAIMED WATER**”

+Cover to be coated or painted **PURPLE**

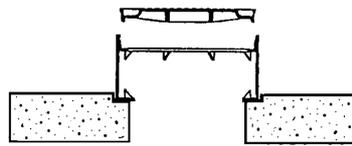
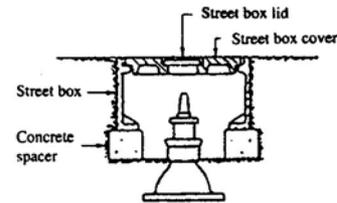
Applicable Australian Standards, WSAA Specifications, etc

- AS3996 Access covers and grates
- WSA PS 290 Access Covers for Water Supply and Sewerage to AS 3996

For more details about these manufacturers refer to the **Manufacturers** section of this manual.

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Street Box Assembly - Heavy Duty

Type 1 - Slab type (Preferred)

Type 2 - Circular support

Alternative Description

Two Piece Lid Street Box

| Item | SA Water Stock No. | BIA (Bianco PC P) | Pentair Water | WASA (Cooke Pre Cast) | Webforge | The Poly People |
|--|--------------------|-------------------|---------------|-----------------------|----------|-----------------|
| Cover (Two Piece Lid) | 5680-0060 | * | * | * | * | * |
| Lid-Valve Access | 5680-0065 | * | * | * | * | * |
| Street Box - Cast (Full Height) | 5680-0061 | * | * | * | * | * |
| Street Box - Cast (Half Height) | 5680-0230 | * | | * | * | * |
| <i>Type 1 Support - Slab Type (Preferred Option)</i> | | | | | | |
| Concrete slab 1200 x 800 x 125 thick | 5680-0080 | * | | * | | |
| 800 x 800 x 150 thick | 5680-0051 | | | * | | |
| <i>Type 2 Support - Circular Ring</i> | | | | | | |
| 600 dia x 75 thick | 5680-0072 | * | | * | | |
| 600 dia x 140 thick | 5680-0049 | * | | * | | |

The frames for this product are the same as for Potable Water. The covers are the same design, but have different markings and are coated/painted **PURPLE**.

Cover to be marked “**RECYCLED WATER**” or “**RECLAIMED WATER**”

Cover to be coated or painted **PURPLE**

Applicable Australian Standards, WSAA Specifications, etc

- AS3996 Access Covers and Grates
- WSA PS 290 Access Covers for Water Supply and Sewerage to AS 3996

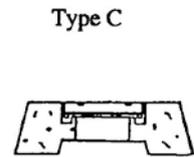
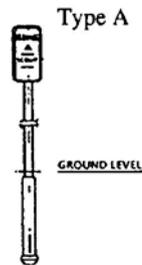
For more details about these manufacturers refer to the **Manufacturers** section of this manual.

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Signs and Markers

Alternative Description



| Item Description | Type | SA Water Stock No. | Peninsular Castings# | Ottoway Engineering |
|---|------|--------------------|----------------------|---------------------|
| Recycled Water Scour Sign with 32mm Galv. Post | A | | ★ | ★ |
| Recycled Water Stop Valve Sign with 32mm Galv. Post | A | | ★ | ★ |
| Recycled Water Scour Sign only | A | | ★ | |
| Recycled Water Stop Valve only | A | | ★ | |
| Sign, Electrical Cable - Thru' Arrow | C | | ★ | |
| Sign, Electrical Cable - L Shaped Arrow | C | | ★ | |
| Sign, Electrical Cable - Single Arrow | C | | ★ | |

Can manufacture signs with alternate wording as required e.g. Stop Valve

| Item Description | Type | SA Water Stock No. | Autotherm |
|--------------------------------------|------|--------------------|-----------|
| Post - Cathodic Protection Indicator | B | | ★ |

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

SA Water Product Description

Tape Underground Warning

NOTE : Non Detectable tape to be placed on overlay sand above pipe.

 Detectable tape to be placed 100 - 150mm below finished ground level above pipe - **PURPLE** in colour

Alternative Description

| Item Description | SA Water Stock No. | Pentair Water |
|--|-----------------------|--|
| 'WARNING : RESTRAINED PIPELINE TYTON LOK FITTINGS' - Non Detectable | | ★ |
| 'CAUTION RECYCLED WATER MAIN WATER MAIN BELOW' - Detectable | | PURPLE Tape in accordance with AS 2648.1 and WSA PS 318 |

Applicable Australian Standards, WSAA Specifications, etc

- AS/NZS 2648.1 Underground marking tape - non-detectable tape
- WSA PS 318 Marking Tape, Detectable
- WSA PS 319 Marking Tape, Non-Detectable

AUTHORISED ITEMS for DUAL WATER SUPPLY SYSTEMS

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