

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

# **WATER CONNECTIONS**

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

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

[www.wsaa.asn.au](http://www.wsaa.asn.au)

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

## Document Update Information

Date	Change Type	Page Number(s)	Details
1 Jul 07	Revision 01	14 – 16 2 3	<ul style="list-style-type: none"> <li>• New Inlet and Outlet riser added</li> <li>• Existing risers moved to Maint Section</li> <li>• Brass Fittings moved to Maint Section</li> </ul> PE pipe Pressure Rating min now PN16 Product description and sizes added
15 Jan 2009	Revision 02	General	Standards Unit details changed
		5	AVK Series 16/50 Valves added
4 Feb 2010	Amendment	7	SA Water Stock No amended (Screwed Flange)
12 Dec 2011	Amendment	2	AS 3855 amended to AS 4020
23 Oct 2012	Name Change	General	Name change – Pentair Water Solutions formally known as Tyco Water
7 June 2013	Name update	General	Derwent Industries added plus inclusion of PE welders
7 April 2014	Name update	General	The Poly People now operating as Civil Pipelines Australia

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

## ***Copper Tube***

Copper Tube to AS1432 Type A, colour code Green shall be acceptable. Annealed or Bendable grades to suit application. Authorised size range covers 20, 25, 40 and 50mm diameters.

### ***Authorised Manufacturers***

- Kembla

### ***Applicable Australian Standards***

- AS1432 Copper Tubes for plumbing, gas fitting and drainage applications.

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

## ***Brass Fittings***

Material shall be Dezincification Resistant (DR) conforming to the requirements of AS 2345, AS 3688 and be suitable for contact with potable water satisfying AS 4020 requirements.

***Brass Fittings are now detailed in the Maintenance Section of this manual.  
They are now predominantly maintenance items.***

### ***Applicable Australian Standards***

- AS 2345 Dezincification Resistance of Copper Alloys.
- AS 4020 Suitability of plumbing and water distribution systems products for contact with potable water.
- AS 3688 Water supply - Copper and copper alloy body compression and capillary fittings and threaded-end connectors.

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

## ***Polyethylene Pipe***

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 (Material and Pressure Rating)***

When ordering pipe specify PE80 (Type B) or PE100: -  
Minimum - PN 16 for all sizes

### ***Colour***

Blue or Black with Blue Stripes

### ***Allowable Pipe Sizes***

DN25	- Connections	DN20 & DN25 Meter Services
DN 40	- Connections	DN40 Meter Service
DN63	- Connections	DN50 Meter Service
DN63	- Cul de Sacs	Comparable to DN50 Copper

### ***Jointing***

- Mechanical - up to 63mm
- Electrofusion
- Butt Welding - Factory Butt welding only

### ***Authorised Pipe Manufacturers***

Iplex Pipelines	Vinidex
PPI Corporation	Zezt

### ***Applicable Australian Standards***

- AS4130 Polyethylene pipes for pressure applications
- AS1460 Fittings for use with polyethylene pipes
- AS2033 Installation of polyethylene pipe systems (For minimum cover refer Water Supply Construction manual)

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

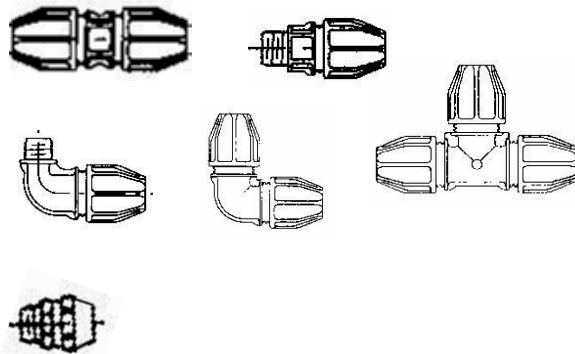
## **AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

### ***PE Fittings - Polyethylene pipe***

Combinations of fittings to achieve specifications in the Water Supply Construction Manual are acceptable from the following suppliers:

#### **Mechanical Joints 25 mm – 63 mm**

Magnum (IPLEX)  
Milnes (ESSE)  
George Fischer  
Philmac  
Plasson  
Plast (Fusion Plast)  
Supreme (Pentair Water)  
  
- Tita Coupling (Brass)



#### **Electrofusion Joints 25 mm – 63 mm**

Fusamatic (Fusion Plast)  
George Fischer  
Philmac (Durafuse & Friatec)  
Plasson  
Rollmaplast



**Standard**

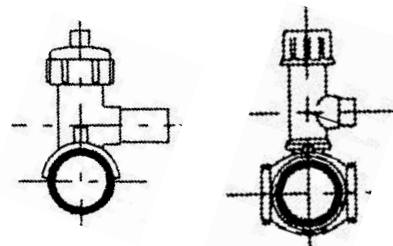
**Reducing**

#### **Also Available**

- Tees
- 45 and 90 Bends
- Stub Flanges

#### **Electrofusion Tapping Saddles.**

Fusamatic (Fusion Plast)  
George Fischer

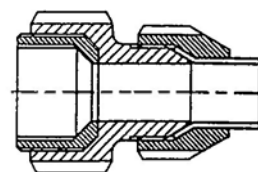


***NOTE : PE fittings with male threaded End Connectors shall not be screwed directly into Pre-Tapped Connectors or Tapping saddles.  
Refer to End Connectors (Autotherm and TITA).***

## AUTHORISED ITEMS for WATER RETICULATION SYSTEM

SA Water Product Description

### *Adaptor - Insulated (for Copper Water Connections)*



Alternative Description

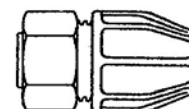
Size	SA Water Stock No.	Autotherm	RMC
20mm BSP F - 20mm Copper Tube (20 nom Main Cock - 20 Copper Tube)	4730-4924	★	
20mm BSP F - 25mm Copper Tube (20 nom Main Cock - 25 Copper Tube)	4730-4925	★	
50mm BSP F - 50mm BSP M (38 nom Main Cock - Copper Elbows)	4730-4963	★	★

SA Water Product Description

### *Adaptor - End Connector (for Polyethylene Water Connections)*



4730-4926



4730-4965

Alternative Description

### *Adaptor Insulated for Polyethylene*

Size	SA Water Stock No.	Autotherm (Philmac)	TITA
20mm BSP M - 25mm Poly Tube	-----		★
20mm BSP M - 25mm Poly Tube	4730-4926	★	
20mm BSP F - 25mm Poly Tube (20 nom Main Cock - 25 Poly Tube)	4730-4965	★	

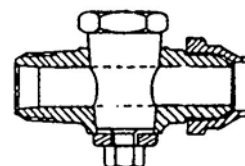
## AUTHORISED ITEMS for WATER RETICULATION SYSTEM

### SA Water Product Description

### *Main Cock*

### Alternative Description

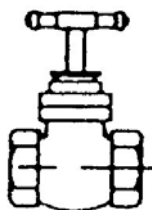
### *Cock Plug*



Size Nom. Pipe Tube (mm)	SA Water Stock No.	Autotherm
20	4820-0120	★
40	4820-0133	★

### SA Water Product Description

### *Cock - Boundary Cock*



Brass with Screwed  
BSP End Connections



Valves with PE  
End Connections

### Alternative Description

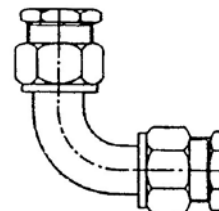
### *Shower cock*

Valve Size	Brass Valves with Screwed BSP End Connections		Valves with PE End Connections		
			PE Pipe Size	Ductile Iron	POM
	Wadhams	Galvin To AS3496		Iplex AVK Series 03/30	Iplex AVK Series 16/50
20			25	★	★
25	★	★	32	★	★
32	★	★	40	★	★
40	★	★	50	★	★
50	★	★	63	★	★

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Elbow - Copper 90 Degree With Nuts***

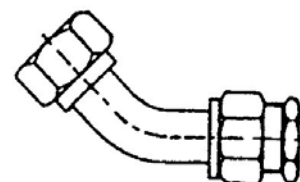


Alternative Description

Item Nominal Tube	SA Water Stock No.	Autotherm
25	4730-1518	★
32	4730-1519	★
40	4730-1520	★
50	4730-1521	★

SA Water Product Description

***Elbow - Copper 45 Degree With Nuts***



Alternative Description

Item Nominal Tube	SA Water Stock No.	Autotherm
25	4730-1514	★
32	4730-1515	★
40	4730-1516	★
50	4730-1517	★

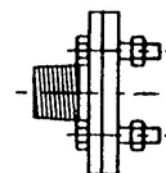


## **AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

### ***Loose Ring Joint for 50mm Water Meter***

Includes Bolts and Gaskets Kit  
FBE Coated (Blue)



Alternative Description

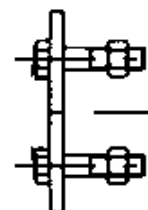
***Loose Ring Joint for 50mm Water Meter***

<b>Nom. Size DN</b>	<b>SA Water Stock No.</b>	<b>Autotherm</b>
50	6680-0683	★

SA Water Product Description

### ***Flange Screwed for 50mm Water Meter***

Includes Bolts and Gasket Kit  
FBE Coated (Blue)



Alternative Description

***Screwed Flange for 50mm Water Meter***

<b>Nom. Size DN</b>	<b>SA Water Stock No.</b>	<b>Autotherm</b>
50	4730-1224	★

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Nut Union***

Alternative Description

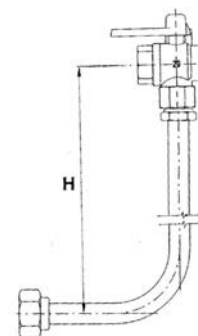


DN Tube	SA Water Stock No.	Autotherm	Wadham
32	4730-1781	★	★
44	4730-4016	★	
50	4730-1783	★	
57	4730-1784	★	

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Riser Inlet Assembly for  
20 mm Dual Check Meter  
- With 20 mm Ball Valve  
for PE Water Connections***

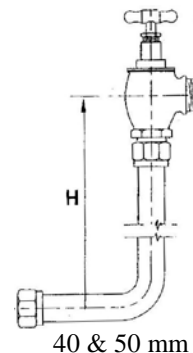
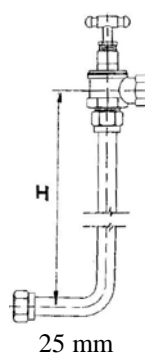


Alternative Description

DN Tube x Height	SA Water Stock No.	Autotherm	Wadhams
20 x 300	4730-1913	★	★
20 x 530	4730-1910	★	★

SA Water Product Description

***Riser Inlet Assembly  
- With Right Angle Valve  
for PE Water Connections***



Alternative Description

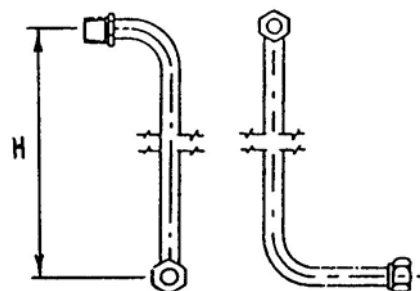
DN Tube x Height	SA Water Stock No.	Autotherm	Wadhams
25 x 530	4730-1387	★	
40 x 530 *	4730-1400	★	
50 x 530	4730-1403	★	

\* Also used for 32 mm meter installation

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Riser Inlet***

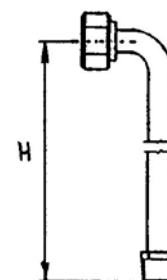


Alternative Description

DN Pipe x Height	SA Water Stock No.	Autotherm	Wadhams
50 x 230	4730-1381	★	
50 x 530	4730-1382	★	

SA Water Product Description

***Riser Outlet for 20 mm  
Dual Check Water Meters***



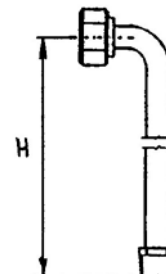
Alternative Description

DN Tube x Height	SA Water Stock No.	Autotherm	Wadhams
20 x 150	4730-5134	★	★
20 x 300	4730-5133	★	★

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Riser Outlet***

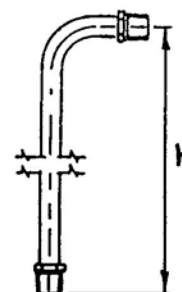


Alternative Description

DN Tube x Height	SA Water Stock No.	Autotherm	Wadhams
25 x 290 mm	4730-1383	★	★
32 x 290 mm	4730-1425	★	
40 x 290 mm	4730-1426	★	

SA Water Product Description

***Riser Outlet***



Alternative Description

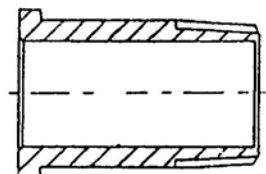
DN Tube x Height	SA Water Stock No.	Autotherm
50 x 300 mm	4730-1427	★

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Tailpiece Union - Male BSP***

Alternative Description

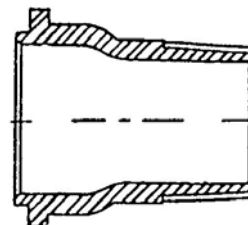


DN Pipe	SA Water Stock No.	Autotherm
25	4730-1768	★

SA Water Product Description

***Tailpiece Union - Meter Inlet***

Alternative Description



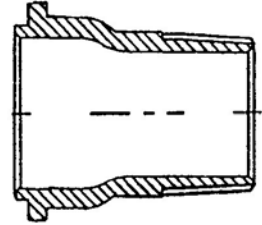
DN Pipe	SA Water Stock No.	Autotherm
32	4730-1748	★
40	4730-1814	★

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***Tailpiece Union - Meter Outlet***

Alternative Description



DN Pipe	SA Water Stock No.	Autotherm
32	4730-1747	★
40	4730-1815	★

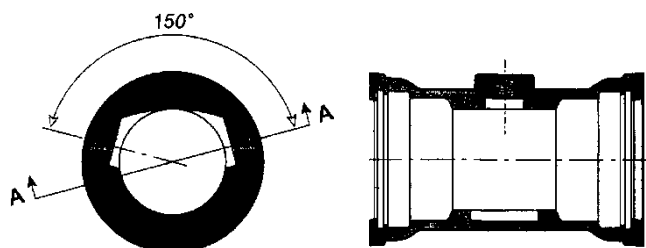
## AUTHORISED ITEMS for WATER RETICULATION SYSTEM

### SA Water Product Description

### *Pre-Tapped Connectors ( FBE Coated)*

Alternative Description (Product Marking)

***Pre-Tapped Connector  
Readytap Connector***



Soc/Soc and Soc/Spig

**Note : Soc/Spig only authorised for DICL pipes only**

### *For DICL and PVC Pipes*

Size DN Pipe x BSP Tapped Boss	Material	Crevet	Tubemakers Water $\Psi$	Stockbrands Supertap
100mm x 20mm	DICL	★	★	
100mm x 40mm	DICL	★	★	
150mm x 20mm	DICL	★	★	
150mm x 40mm	DICL	★	★	
100mm x 20mm	Nylon			★

$\Psi$  Also available with twin outlets both sides.



## AUTHORISED ITEMS for WATER RETICULATION SYSTEM

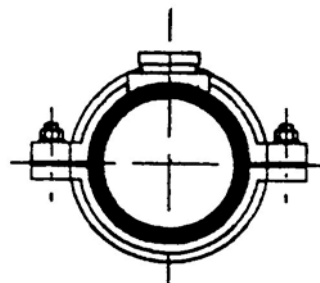
### Ψ SA Water Product Description

Alternative Description

***Tapping Bands***

***Tapping Collars***

### ***Tapping Saddles***



### **For AC Pipes Only**

#### **Tapping Saddles - 20 & 25mm Offtake**

Manufacturer / Product Marking	Pipe Size (mm)							Material
	80	100	150	200	250	300	375	
NIBF (Iplex)		*	*	*	*	*		Ductile Iron
Milnes / 60B (Iplex)	*	*	*	*	*	*	*	Gunmetal
RMC / Sureseal	*	*	*	*	*	*	*	Gunmetal
Stockbrands Nylon			*	*	*			Includes "Self – Tapper" Type
Pentair Water / Iso-tap		*	*			*		Ductile Iron
Wang / KT Tapping Saddle (Pentair)	*	*	*	*				316 Stainless Steel
Wang / BSP Tapping Clamp (Pentair)					*	*	*	316 Stainless Steel

#### **Tapping Saddles - 40mm Offtake**

Manufacturer / Product Marking	Pipe Size (mm)							Material
	80	100	150	200	250	300	375	
Milnes / 60B (Iplex)	*	*	*	*	*	*	*	Bronze
RMC / Sureseal		*	*	*	*	*	*	Bronze
Wang / BSP Tapped Clamp (Pentair)	*	*	*	*	*	*	*	316 Stainless Steel

#### **Tapping Collar-50mm Offtake (50-40 Reducing Bush Required)**

Manufacturer / Product Marking	Pipe Size (mm)							Material
	80	100	150	200	250	300	375	
Wang / BSP Tapped Clamp (Pentair)	*	*	*	*	*	*	*	316 Stainless Steel

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

*(continued)*

SA Water Product Description

***Tapping Saddles***

**For DICL & CICL Pipes Only**

**Tapping Saddles - 20 & 25mm Offtake**

Manufacturer / Product Marking	Pipe Size (mm)								Material
	80	100	125	150	200	250	300	375	
NIBF / Taptite (Iplex)		*		*	*	*	*		Duct. Iron Bit. or FBE Coated
Pentair Water / Iso- tap		*		*			*		Ductile Iron
Wang / KT (Pentair)	*	*	*	*	*				316 Stainless Steel

**Tapping Saddles - 40mm Offtake**

Manufacturer / Product Marking	Pipe Size (mm)							Material
	100	125	150	200	250	300	375	
NIBF / Taptite (Iplex)	★	★	★	★	★	★		Duct. Iron-Bit. or FBE Coated
Pentair Water / Iso-tap			★			★		Ductile Iron
Wang / BSP Tapped Clamp (Pentair)	★	★	★	★	★	★	★	316 Stainless Steel

**Tapping Collar-50mm Offtake (50-40 Reducing Bush Required)**

Manufacturer / Product Marking	Pipe Size (mm)							Material
	100	125	150	200	250	300	375	
NIBF (Iplex)	★	★	★	★	★	★		Ductile Iron
Wang / BSP Tapped Clamp (Pentair)	★		★	★	★	★	★	316 Stainless Steel

## AUTHORISED ITEMS for WATER RETICULATION SYSTEM

*(continued)*

SA Water Product Description

### *Tapping Saddles*

### *For PVC Pipes Only (Full Circle Clamping)*

#### Tapping Saddles - 20 & 25mm Offtake

Manufacturer / Product Marking	Pipe Size (mm)						Material
	80	100	150	200	250	300	
NIBF / Taptite (Iplex)		★	★	★	★	★	Duct. Iron FBE Coated
Milnes / 60 A (Iplex)		★	★	★	★		Gunmetal
RMC / Sureseal		★	★	★	★		Gunmetal
Wang / KT (Pentair)	★	★	★	★			316 Stainless Steel
Stockbrands Nylon		★	★	★			Includes "Self – Tapper" Type
Pentair Water / Iso-tap		★	★				Ductile Iron
Talbot / Self tapping		★	★	★			316 Stainless Steel

#### Tapping Saddles - 40mm Offtake

Manufacturer / Product Marking	Pipe Size (mm)						Material
	80	100	150	200	250	300	
Milnes / 60 A (Iplex)		★	★	★	★		Gunmetal
RMC / Sureseal		★	★	★	★		Gunmetal
Wang / BSP Tapped Clamp	★	★	★	★	★	★	316 Stainless Steel

#### Tapping Collar - 50mm Offtake (50 - 40 Reducing Bush Required)

Manufacturer / Product Marking	Pipe Size (mm)						Material
	80	100	150	200	250	300	
Milnes / 60 A (Iplex)		★	★	★	★	★	Gunmetal
Wang / BSP Tapped Clamp (Pentair Water)		★	★	★	★	★	316 Stainless Steel

## AUTHORISED ITEMS for WATER RETICULATION SYSTEM

*(continued)*

SA Water Product Description

***Tapping Saddles***

Alternative Description

***Swivel Tapper***

***Electrofusion Couplings***

**Tapping Saddles – 20, 25 & 32mm Offtakes (may require a reducer)**

Manufacturer / Product Marking	Pipe Size (mm)				Material
	63	110	125	180	
Fusamatic (Fusion Plast)	★	★	★	★	PE80 / PE100
George Fischer	★	★	★	★	PE80 / PE100
Plasson	★	★	★	★	Cat # 9630 PE80 / PE100 with 316 Stainless Steel Bolts & nuts

***Mechanical Couplings***

***For 63 mm PE pipe only***

**Tapping Saddles - 20 & 25mm Offtakes**

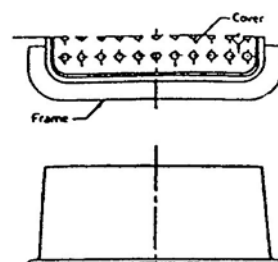
Manufacturer / Product Marking	Pipe Size (mm)	Material
	63	
Plasson	★	Cat # 6530 range Polypropylene with 316 Stainless Steel Bolts & nuts
Talbot Self Tapping	★	Polypropylene

Rev 1  
Jul 07

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***No. 2 Meter Access  
(Cast Iron)***



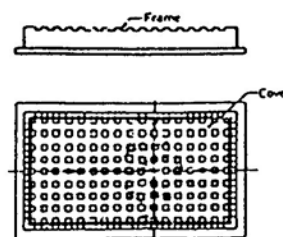
Alternative Description

***No. 2 Meter Box***

Item	SA Water Stock No.	BIA (PCP)
Frame	5680-0034	★
Cover	5680-0030	★
Assembly	5680-1501	

SA Water Product Description

***No. 3 Meter Access  
(Cast Iron)***



Alternative Description

***No. 3 Meter Box***

Item	SA Water Stock No.	BIA (PCP)
Frame	5680-0035	★
Cover	5680-0031	★

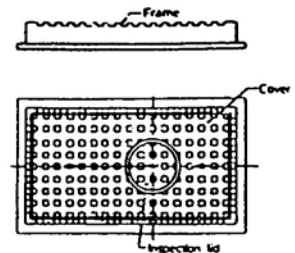
**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***No. 4 Meter Access  
(Cast Iron)***

Alternative Description

***No. 4 Meter Box***



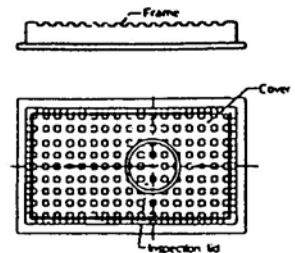
Item	SA Water Stock No.	BIA (PCP)
Frame	5680-0036	★
Cover	5680-0032	★
Lid	5680-0038	★

SA Water Product Description

***No. 5 Meter Access  
(Cast Iron)***

Alternative Description

***No. 5. Meter Box***

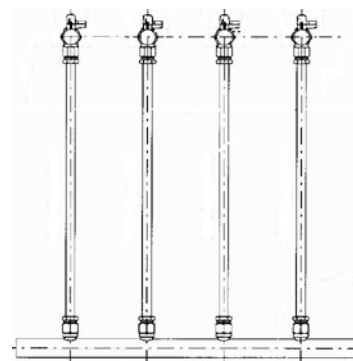


Item	SA Water Stock No.	BIA (PCP)
Frame	5680-0037	★
Cover	5680-0033	★
Lid	5680-0039	★

**AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

SA Water Product Description

***20mm Meter Manifold***



Alternative Description

Item		SA Water Stock No.	Autotherm
No. of Risers	Connector Pipe Size (mm)		
2	25	4730-0089	★
3	25	4730-0092	★
3	40	4730-0090	★
4	40	4730-0091	★
5	40	4730-0093	★
6	40	4730-0094	★

Notes

- Up to 12 x 20 mm services may be connected to a 40 mm water service by coupling manifolds together (40 mm connector pipe only).

## **AUTHORISED ITEMS for WATER RETICULATION SYSTEM**

### **INDEX**

#### **Access Cover**

No. 2 Meter .....	19
No. 3 Meter .....	19
No. 4 Meter .....	20
No. 5 Meter .....	20

#### **Adaptor**

End Connector.....	4
Insulated .....	4

#### **Cock**

Boundary Cock BSP ends .....	5
Boundary Cock PE ends.....	5

#### **Copper Tube**

Standard .....	1
----------------	---

#### **Elbow**

Copper 45 degree w/nuts.....	6
Copper 90 degree w/nuts.....	6

#### **Flange Screwed**

for 50mm Water Meter.....	7
---------------------------	---

#### **Loose Ring Joint**

for 50mm Water Meter.....	7
---------------------------	---

<b>Main Cock</b> .....	5
------------------------	---

#### **Meter Manifold**

-20mm .....	21
-------------	----

<b>Nut Union</b> .....	8
------------------------	---

#### **PE Fittings**

for Polyethylene pipe .....	3
-----------------------------	---

#### **Polyethylene Pipe**

Standard .....	2
----------------	---

<b>Pre-Tapped Connectors</b> .....	14
------------------------------------	----

#### **Riser**

Inlet .....	10
Inlet Assembly 20mm with Ball Valve .....	9
Inlet Assembly with Right Angle Valve .....	9
Outlet.....	11
Outlet for 20mm Dual Check Meter .....	10

#### **Tailpiece Union**

Male BSP .....	12
Meter Inlet.....	12
Meter Outlet .....	13

#### **Tapping Saddles**

63mm PE Pipe.....	18
AC Pipes .....	15
DICL & CICL Pipes .....	16
PVC Pipe.....	17