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McALPINE
Plumbing Products

Product Catalogue

Complete Range of Plumbing Products

McAlpine Product Catalogue

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McALPINE
Plumbing Products

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30K 04/19

LATEST Innovative Products

NEW

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Introduction

McAlpine commenced manufacturing plumbing products in 1902 and in 1957 was the first United Kingdom company to manufacture plastic traps and is still a privately owned family company.

McAlpine now manufactures an exceptionally wide range of products of the highest quality for use in the United Kingdom and exports specifically designed products for use in over eighty countries worldwide.

As market leader, McAlpine has a reputation for producing innovative products determined by market conditions and customer demand.

McAlpine is a Member of the British Standards Institution, the British Plastics Federation and is an Associate Member of the Chartered Institute of Plumbing and Heating Engineers.

McAlpine is actively involved in the promotion of quality products which are available in the United Kingdom from national and independent plumbers' and builders' merchants.

Quality Control

McAlpine operates strict quality control systems within all its factories, which are located in the West of Scotland, and is committed to the continued supply of high quality products.

Technical Information

All information relating to plumbing regulations, installations and flow rates of traps, standards and patents has been included in the Technical Section (8) at the back of this catalogue.

McAlpine & Co. Ltd. owns intellectual property rights of the products described in this catalogue. These rights include, but are not limited to, patents, patent applications, registered designs, unregistered design rights, trademarks, unregistered trademarks and copyright.

Unless authorised by McAlpine & Co. Ltd. the contents of this catalogue may not be copied in any way.

The company operates a policy of progressive improvements and reserves the right to alter the specification of any product without notice.

MᶜAlpine Multifit

- Most MᶜAlpine trap outlets and fittings have Multifit connections

- Multifit connections suit all plastic waste pipes to BS EN 1451-1:2000 and BS EN 1329-1:2000, copper pipe (metric or imperial) and lead pipe
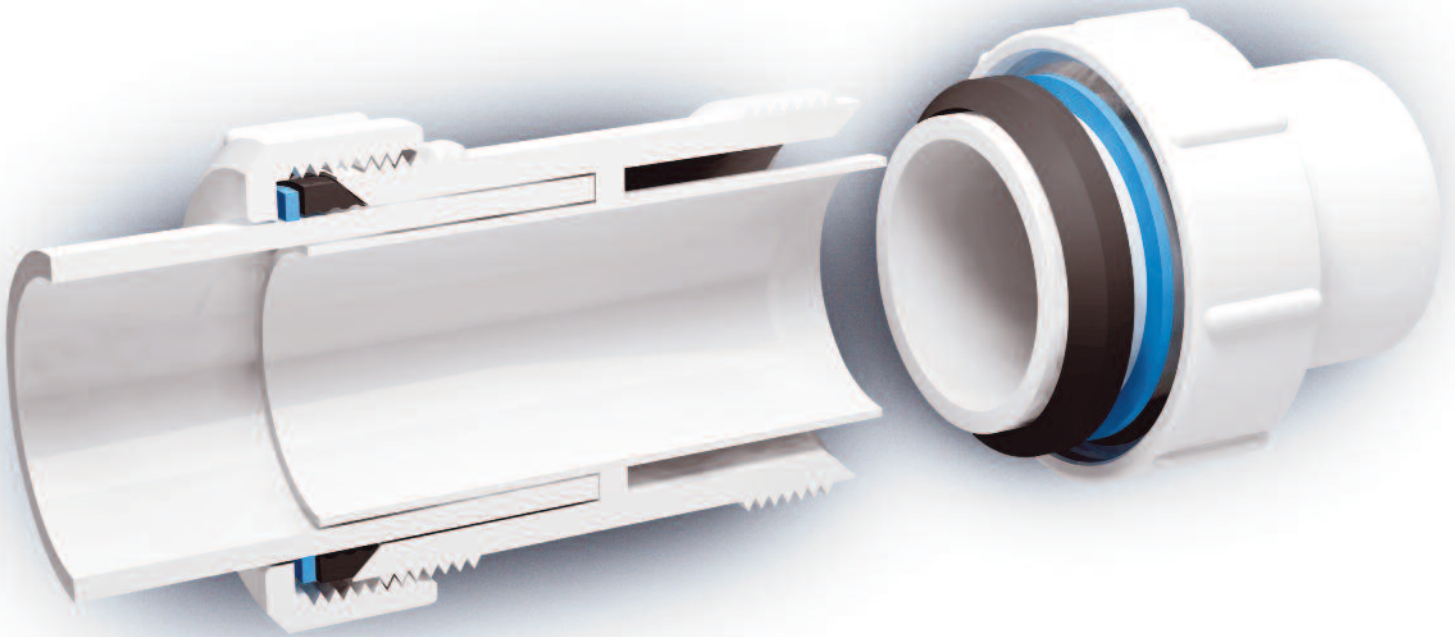
- The moulded internal sleeve of the connection, centres and supports the pipe. The Multifit and friction washers ensure a secure seal is made between the pipe and the wall of the fitting. When the compression nut is turned hand tight the best possible mechanical joint is complete

- If a plastic pipe is undersize, or out of shape, the end may require to be warmed to enable it to be pushed over the internal sleeve

- For technical reasons, it is not possible to manufacture Multifit connections on all traps and fittings. Where Multifit is not provided the description universal is applied. The only difference being that universal does not have an internal sleeve within the trap or fitting

Multifit Connections

Plastic Traps
Condensate Products

Plastic Traps and Condensate Products

Anti-Syphon Traps (Silentraps)

General

- By drawing air through the valve, the Silentrap neutralises syphonic pressure before it reaches the seal of the trap and therefore provides the equivalent of a ventilated system without the installation of costly and unsightly ventilation pipes
- The Silentrap has been most rigorously tested and will not unseal, even under the most abnormal conditions
- The Silentrap should continue to be effective irrespective of the distance between the appliance and the soil pipe

Operation

Whenever syphonic conditions develop, the negative pressure causes the valve to rise, allowing air to be drawn into the discharge pipe. The pressure is thereby neutralised before it can have any effect on the water seal within the trap. On cessation of the syphonic action, the valve closes, making the Silentrap air and watertight.

Advantages

- The major advantage of the Silentrap over Resealing Traps is that because the air is drawn through the valve and not through the water seal, gurgling is eliminated and a much quieter discharge is ensured
- Eliminates the need for secondary ventilation
- Silentrap valves are available on a wide range of Bottle, Tubular and Bath Traps
- Silentraps allow for greater flexibility in plumbing design

- The products below simply show that the Silentrap attachment is available on Bottle, Tubular and Bath Traps. Popular Anti-Syphon Traps are shown throughout this catalogue. All traps marked* are available as Anti-Syphon (Silentrap). Add suffix 'V' to code

- A report of a special investigation by the Building Research Establishment on the performance of these traps under discharge and syphonic conditions is available on request

General

Resealing Bottle Traps are an alternative to Anti-Syphon Traps (Silentraps) and may be used in similar circumstances.

Operation

When the trap is subject to syphonic conditions the automatic hydraulic action allows air to be drawn through the inlet of the trap and through the bypass columns thus breaking the syphonic action. On cessation of syphonic conditions the remaining water falls back to reseal the trap. The Silentrap ventilates by drawing air through a non-return valve, whereas the Resealing Trap ventilates by drawing air through the inlet of the trap and through the water seal.

Advantages

- The simple non-mechanical action ensures retention of adequate water seal even under extreme syphonic conditions
- Eliminates the need for secondary ventilation
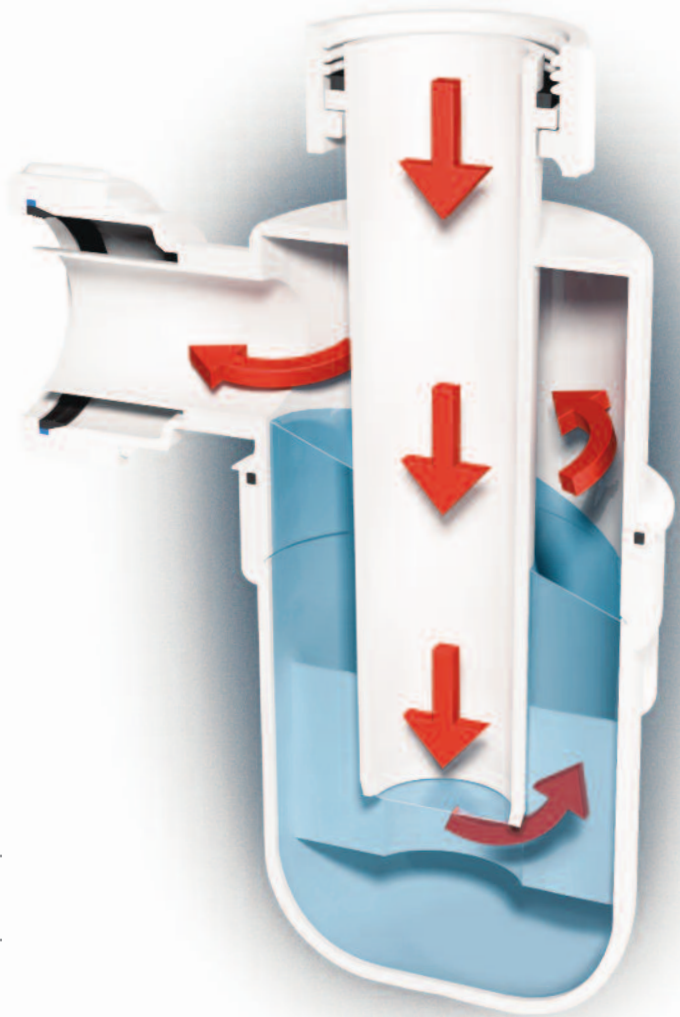
	1¼" Code	1½" Code
Standard		
	A10R	**C10R**

Adjustable Inlet		
	A10AR	**C10AR**

Adjustable Inlet Chrome Plated		
	A10AR-CP	**C10AR-CP**

Resealing Shower Trap

Code	**STW4-RB**

- Full range of Resealing Shower Traps see pages 26-28

- Bends are available for converting 'P' traps to 'S' traps see page 6

Resealing Bottle Traps

Bottle Traps with 75mm Water Seal

	1¼" Code	1½" Code
Standard	A10	C10
Anti-Syphon (Silentrap)	A10V	C10V
Resealing	A10R	C10R
Adjustable Inlet	A10A	C10A
Anti-Syphon (Silentrap) Adjustable Inlet	A10AV	C10AV
Resealing Adjustable Inlet	A10AR	C10AR

	1¼" Code	1½" Code
Adjustable Inlet	AA10	-
Adjustable Inlet Basin Trap with centre pin waste	AA10W	-
50mm Water Seal	E10	-
38mm Water Seal	-	G10
Conversion Bend to convert bottle 'P' trap to 'S' trap	S1M	T1M

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Chrome Plated Bottle Traps

	1¼" Code	1½" Code
Resealing Trap Adjustable Inlet		
	A10AR-CP	**C10AR-CP**
Adjustable Inlet		
	CAA10	-

Anti-Syphon (Silentrap) incorporating a Silicone Valve

- The silicone valve prevents back pressure
- The Silentrap valve ensures retention of the water seal under extreme working conditions and eliminates the need for secondary ventilation
- The Silentrap valve reduces noise (gurgling) during discharge
- The silicone valve prevents foul odour or sewer gas entering the building if the water seal has evaporated which may occur due to lack of use through under occupancy
- Removable cup to facilitate easy cleaning
- Interchangeable with existing McAlpine traps

	1¼" Code	1½" Code
Anti-Syphon (Silentrap) Adjustable Inlet with Non-Return Valve		
	A10AV-SV	**C10AV-SV**

Bottle Traps with 75mm Water Seal

Chrome Plated Basin Traps, Pipe and Wall Flange
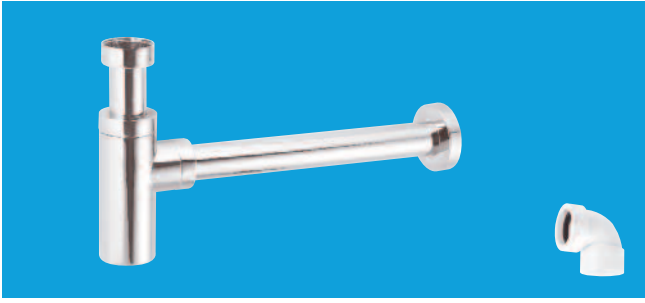
- All kits except TA32UK-CB and TA32VUK-CB supplied with MS4-32SOLVENT fitting as illustrated. For additional fittings see pages 54 and 61
- For Chrome Plated Brass Waste Pipe and Fittings see pages 60 and 61

1¼" x 50mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap with 12" length of 32mm OD CP brass waste pipe and wall flange

Code	CA32MINI-CB
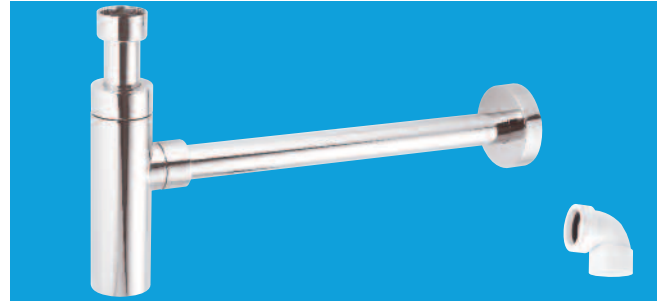
1¼" x 75mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap with 16" length of 32mm OD CP brass waste pipe and wall flange

Code	CA32UK-CB
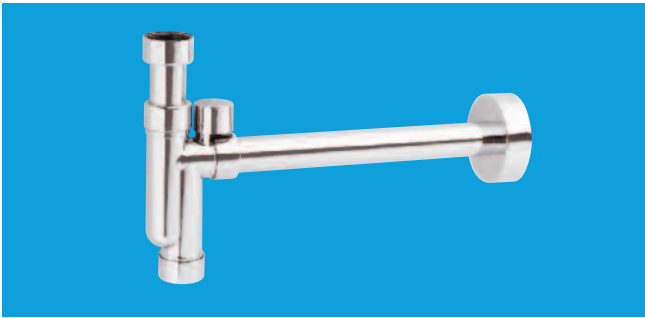
1¼" x 50mm Water Seal Plastic Adjustable Inlet Tubular Anti-Syphon Trap (Silentrap) with 12" length of 32mm OD CP brass waste pipe and wall flange

Code	TA32VUK-CB

1¼" x 75mm Water Seal Plastic Adjustable Inlet Bottle Trap with 16" length of 32mm OD CP brass waste pipe and wall flange

Code	A32UK-CP

1¼" x 50mm Water Seal Brass Adjustable Inlet Square Bottle Trap with 12" length of 32mm OD CP brass waste pipe and wall flange

Code	CA32SQUK-CB

1¼" x 75mm Water Seal Brass Adjustable Inlet Bottle Trap with 16" length of 32mm OD CP brass waste pipe and wall flange

Code	A32UK-CB

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MacValve Self-Closing Waste Valve

Patent Pending

- Can be fitted in horizontal or vertical position
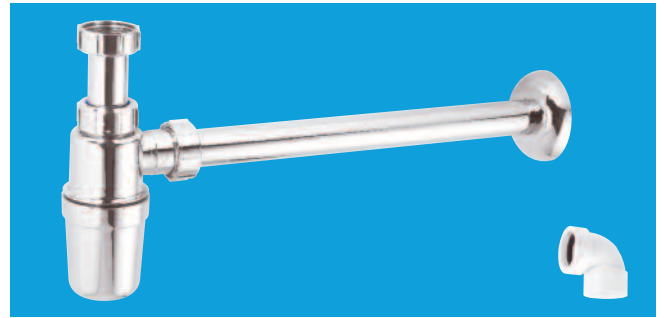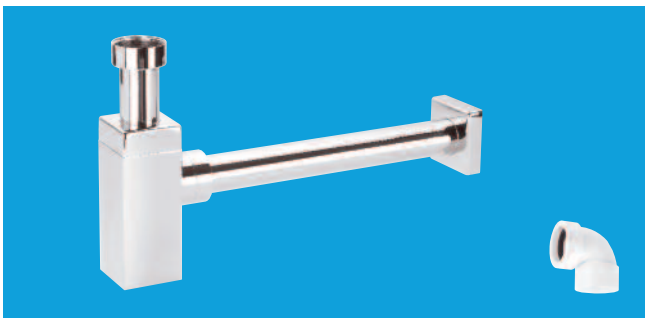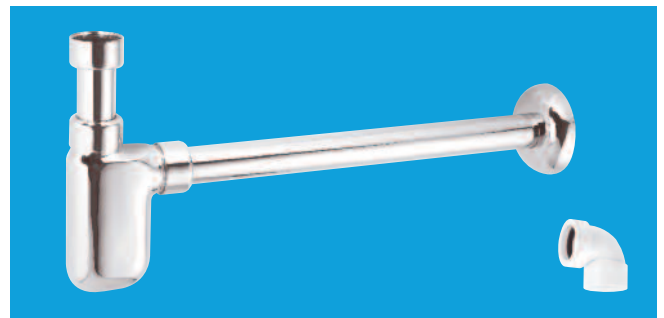- MacValve membrane opens under water pressure to allow discharge to flow freely and then closes to form a seal to prevent foul odour or sewer gas entering the building
- MacValve can be fitted in installations where a non-return valve can be of benefit to the plumbing installation
- MacValve can be used to take the discharge from a pressure relief valve on an unvented domestic hot water storage system. Please refer to guidance notes in approved Document G3 of the Building Regulations

- MacValve having no water seal can never dry out through evaporation or lack of use of an appliance as the membrane remains sealed
- MacValve must not be used for baths or shower trays unless there is access for maintenance

MacValve 1¼" BSP female inlet nut x 1¼" universal compression outlet
Code **MACVALVE-1**

MacValve 1½" BSP female inlet nut x 1½" universal compression outlet
Code **MACVALVE-2**

MacValve 2" universal compression outlet x 2" universal compression outlet
Code **MACVALVE-4**

The **Tundish** adaptor can be cut to give a 22mm plain tail

MacValve 1¼" BSP female inlet nut x 1¼" universal compression outlet including Tundish adaptor 1¼" BSP male thread x 22mm universal inlet

Code **MACVALVE-3**

When installed horizontally the flow arrow must be in the uppermost position

	Code
90° Bend 1¼" female inlet nut x 1¼" BSP male connector	S4U*
90° Bend 1½" female inlet nut x 1½" BSP male connector	T4U*
Straight Connector 1¼" BSP male thread x 1¼" universal compression connection	S31U*
Straight Connector 1½" BSP male thread x 1½" universal compression connection	T31U*
1½" Space Saver MacValve Inlet	SSINLET1
1¼" Space Saver MacValve Inlet	SSINLET2
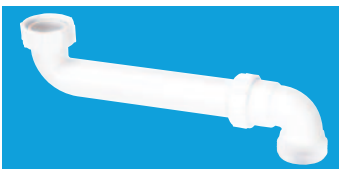
*** S4U, T4U, S31U AND T31U FITTINGS ONLY SUITABLE FOR USE WITH MACVALVE**
Do not pour drain cleaner down these products

MacValve Self-Closing Waste Valve

Wash Hand Basin Space Saver with Self-Closing Waste Valve

- Designed to allow full use of storage space below the basin within the cabinet or furniture
- The internal membrane opens under water pressure to allow discharge to flow freely and then closes to form a seal to prevent foul odour or sewer gas entering the building
- The valve allows air to be drawn into the discharge waste pipe when negative pressures occur and eliminates the need for secondary ventilation to the discharge pipework. This allows for greater flexibility in the plumbing design

- The valve can be easily cleaned without having to disassemble the discharge pipework. Simply remove the split pin at the front of the valve, take out the plug and membrane and clean in hot soapy water. Reassemble and relocate the split pin in the slot provided
- The WHB self-cleaning waste valve having no water seal can never dry out through evaporation or lack of use of the basin as the membrane seal remains closed
- Overall height 62mm
- Do not pour drain cleaner down this product

62mm

1^1/$_4$" BSP female inlet nut x 1^1/$_4$" universal compression outlet

Code	WHB-1

Tubular Traps with 75mm Water Seal

	1^1/$_4$" Code	1^1/$_2$" Code	2" Code
Swivel 'P'			
	SA10	SC10	SE10
Anti-Syphon (Silentrap)			
	SA10V	SC10V	SE10V

	1^1/$_4$" Code	1^1/$_2$" Code	2" Code
Adjustable Inlet			
	ASA10	ASC10	ASE10
Adjustable Inlet Anti-Syphon (Silentrap)			
	ASA10V	ASC10V	ASE10V

	1¼" Code	1½" Code	2" Code
Adjustable Inlet Basin Trap with centre pin waste			
	ASA10W*	-	-
Low Inlet			
	BT3*	-	-
50mm Water Seal			
	BT4	-	-
Adjustable Inlet with connection for 19/23mm pipe			
	ASA10-SP*	ASC10-SP*	-
Swivel 'S'			
	SB10	SD10	SF10
All One			
	SP10	TP10	ZP10
All One Anti-Syphon (Silentrap)			
	SP10V	TP10V	-
Running 'P'			
	SR10*	TR10*	SG10*
Running 'S'			
	SS10	TS10	SH10

	1¼" Code	1½" Code	2" Code
Running suitable for most waste disposal units			
	-	TT10*	-
Running with 20mm water seal			
	-	TRSH10	-
Adjustable Inlet with 19mm water seal			
	BT1	BT2	-

	1¼" Code
Offset Basin Trap with adjustable inlet and cleaning eye	
	OBT1
Offset Anti-Syphon (Silentrap) Basin Trap with adjustable inlet and removable anti-syphon valve for cleaning purposes	
	OBT1V

Straight Through with one cleaning eye

1¼" Inlet x 1¼" outlet **X10**

Straight Through Anti-Syphon (Silentrap) with one cleaning eye

1¼" Inlet x 1¼" outlet **X10V**

Straight Through with two cleaning eyes

1¼" Inlet x 1¼" outlet **X10A**

1¼" Inlet x 1½" outlet **Y10**

MacValve Self-Closing Waste Valve

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Domestic Appliance Traps 1½" x 75mm Water Seal

General

- Domestic Appliance Traps provide the facility to accept the discharge from a washing and/or dishwashing machine(s) and are suitable for new and existing installations

- In all cases a blank cap, plug or blank nozzle is provided with the trap. Should the domestic appliance not be connected at the time of installation, the trap will function as a normal sink trap whilst providing an easily accessible point for the future installation of any appliance(s)

Sink Traps with connection for the discharge from domestic appliance(s)

Code **WM1***	Code **WM2**	Code **WM2V**	Code **WM14***

With Adjustable Inlet

Code **WM11***	Code **WM12***	Code **WM15***	Code **ASC10-CO***

Standpipe Trap and Fittings

Twin Connector for plumbing two domestic appliance discharge hoses into standpipe trap

Code **V33WM**

- Multifit outlet to suit either 1½" or 40mm diameter standpipe

- 135° swivel nozzles for washing and/or dishwashing machine discharge hoses - supplied with blanking plugs

- Discharge hose(s) to be taken to the height stated by the appliance manufacturer(s)

- An air break, as specified by appliance manufacturers is incorporated within the connector

Standpipe Cap with retaining clip

Code **WM3-CAP**

Standpipe Trap

Code **WM3***

All traps marked available as anti-syphon (Silentrap). Add suffix 'V' to code. See page 4 for technical details*

Sink Trap with TeeVent

- The TeeVent system, which incorporates a non-return valve, provides an air break and enables the waste system to be sealed. This system has the advantage over a standpipe arrangement in that should a blockage occur, the non-return valve prevents flooding
- TV1 can be used with domestic appliance trap WM4
- All domestic appliance traps must be fitted in accordance with the fixing instruction leaflet included with each trap
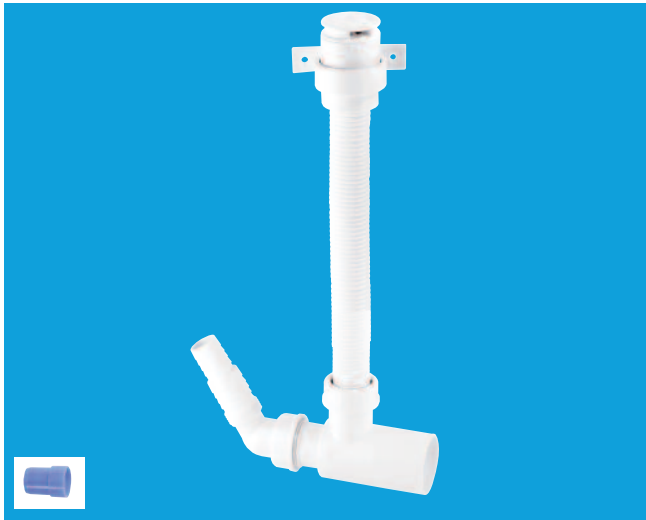
Code	TV1

Code	WM4*

Accessories

Straight Nozzle for connection to 1½" Multifit

Code	WMF3

90° Nozzle for connection to 1½" Multifit

Code	WMF4

135° Nozzle for connection to 1" BSP thread

Code	MA15

Blanking Plug for traps and fittings

Code	228532

Swept Tee BSP nut x BSP thread x nozzle for discharge hose of domestic appliance

1½" x 1½" x ¾"	Code **V33L**
1¼" x 1¼" x ¾"	Code **V34L**

Tee Piece BSP nut x BSP thread x 135° nozzle for discharge hose of domestic appliance

1½" x 1½" x ¾"	Code **V33S**

- When installing domestic appliance traps, care should be taken to observe the instructions of the manufacturer of the appliance, particularly with regard to the height of the discharge hose and the incorporation of an air break or vent to atmosphere

All traps marked* available as anti-syphon (Silentrap). Add suffix 'V' to code. See page 4 for technical details

Appliance Trap and Accessories

Space Saver and Standard Plumbing Kits for Sinks. Plumbing

General

- Space Saver Kits are designed to allow full use of storage space below the sink bowl(s) and are suitable for use with almost all British and European sinks

- All kits have 1½" inlet connections and the provision for the discharge hose(s) of domestic appliance(s). Also supplied with a 1½" x 75mm water seal tubular swivel 'P' trap

- Each kit is boxed individually and supplied with an illustrative drawing
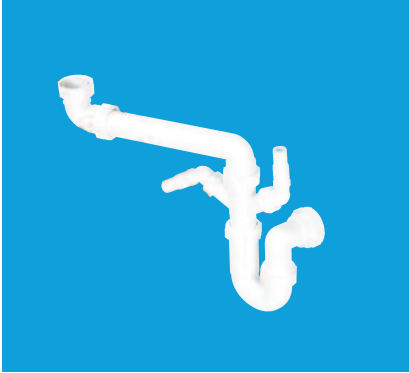
Single Bowl Kit

Code   **SSK1**
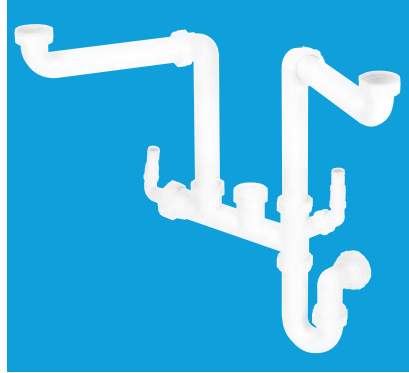
Double Bowl Kit

Code   **SSK2**

Three Bowl Kit

Code   **SSK3**

1½" Space Saver Trap Inlet

Code   **SSINLET1**

1¼" Space Saver Trap Inlet

Code   **SSINLET2**

1¼"/1½" Plumbing Kit for adjustable height basin or sink

(supplied with T16 1½"/1¼" trap inlet reducer)

Code   **FLEXKIT1**

Space Saver Plumbing Kits

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Kit for Adjustable Height Basin or Sink

General

- Standard Kits have the provision for the discharge hose(s) of domestic appliance(s) and are suitable for use with almost all British and European sinks
- All kits have 1½" inlet connections and the provision for the discharge hose(s) of domestic appliance(s). Also supplied with a 1½" x 75mm water seal tubular swivel 'P' trap
- Each kit is supplied in a polythene bag complete with an illustrative drawing
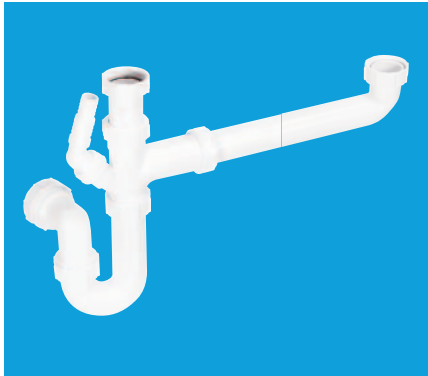
Bowl and a Half Kit
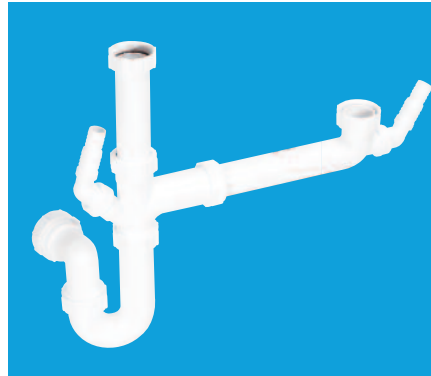
Code   **SK1**

Bowl and a Half Kit

Code   **SK1A**
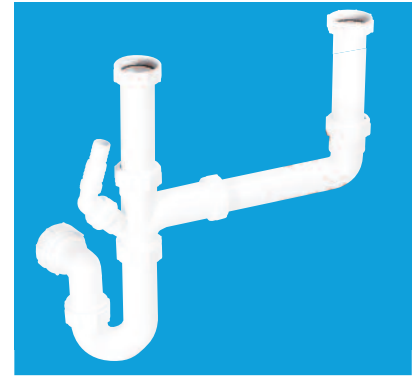
Double Bowl Kit

Code   **SK2**

Double Bowl Kit

Code   **SK2A**
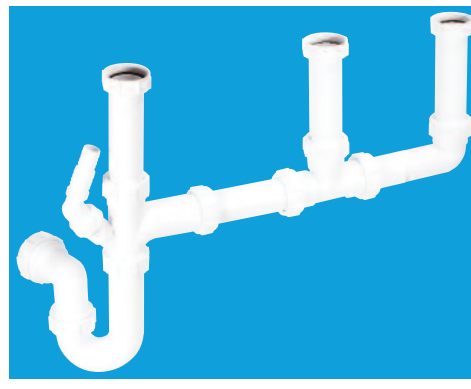
Three Bowl Kit

Code   **SK3**

Blanking Plug(s) included with all plumbing kits

Code   **228532**

Code **SK1**

Standard Plumbing Kits

Condensate Products for Connecting Condensate Discharge

Basin and Sink Traps

1¼" x 75mm Water Seal Tubular Swivel Basin Trap
with adjustable inlet and connection for 19/23mm pipe. Supplied with blanking cap

Code	ASA10-SP*

1½" x 75mm Water Seal Tubular Swivel Sink Trap
with adjustable inlet and connection for 19/23mm pipe. Supplied with blanking cap

Code	ASC10-SP*

1½" x 75mm Water Seal Tubular Swivel Sink Trap
with adjustable inlet, nozzle for discharge hose of domestic appliance and connection for 19/23mm pipe. Supplied with blanking cap

Code	ASC10-CO*

19/23mm Inlet and Outlet x 75mm Water Seal Offset Trap
to receive discharge from a condensing boiler. Supplied with support clip

Code	OBT1-CO

Flexible Connector from Condensing Boiler to Rigid or Flexible Condensate Discharge Pipe

- Easy connection to boiler condensate discharge pipe
- Allows for disconnection in freezing conditions for discharge to be redirected into a receptacle
- Universal compression connections suitable for 19/23mm rigid pipe and 25mm flexible pipe
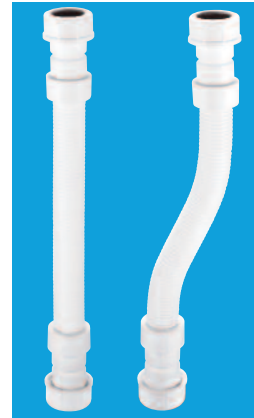
200mm Flexible Connector

Code	CONFLEX-200

300mm Flexible Connector

Code	CONFLEX-300

Flexible Condensate Pipe Kit

- For use in installation of condensing boilers
- Eliminates use of traditional rigid discharge pipe and fittings thereby allowing complete flexibility to discharge point
- Includes fittings to allow for easy connection to sanitary pipework
- Allows for disconnection in freezing conditions for discharge to be redirected into a receptacle
- Particularly useful where installation space is restricted

Flexible Condensate Pipe Kit - contents
- 1 x 3m length of 25mm flexible pipe
- 6 x 25mm pipe clips
- 2 x straight connectors with universal compression connections suitable for 19/23mm rigid pipe and 25mm flexible pipe
- 1 x 1½" plain tail ABS solvent weld reducer to 19/23mm rigid pipe and 25mm flexible pipe

Code	CONFLEX-KIT1

All traps marked* available as anti-syphon (Silentrap). Add suffix 'V' to code. See page 4 for technical details

Soakaway - Container for use with limestone chippings. External use only

110mm x 300mm x 1¼" /1½" Pipe top and side Inlet Connections to receive discharge from a condensing boiler. 19/23mm x 1¼" fitting provided to increase size of discharge pipe before it passes through the external wall

Code	**SOAK1GR**

Auxiliary Fittings

Pipe Clamp to suit 1¼"/1½" Pipe to BS EN 1451-1:2000/ BS EN 1329-1:2000 with universal compression connection for 19/23mm rigid pipe

Code (Grey)	**CLAMP1GR**
Code (White)	**CLAMP1WH**

1½" x 1½" x 19/23mm Universal Slip Tee with universal compression connections for 19/23mm rigid pipe

Code	**V1MX-CO**

In-line Vertical Non-Return Valve with inlet and outlet connection for 19/23mm pipe

Code	**CONVALVE**

Straight Connector with universal compression connections for 19/23mm rigid pipe and 25mm flexible pipe

Code	**R1M-CO**

50mm Tundish with 19/23mm pipe outlet

Code	**TUN-2**

Mechanical Soil Pipe Boss Connectors

Mechanical Soil Pipe Boss Connector 57mm hole saw size. Supplied with fixing tool

4"/110mm x 1¼" pipe	
Code	**BOSSCONN110-BL**
4"/110mm x 1½" pipe	
Code	**BOSSCONN110T-BL**
4"/110mm x 1¼" pipe	
Code	**BOSSCONN110-GR**
4"/110mm x 1½" pipe	
Code	**BOSSCONN110T-GR**

Two-Piece Cast Iron Soil Pipe Boss Connector to suit 22mm drill size. Supplied with fixing tool

4"/100mm x 1¼" pipe	
Code	**BOSS110CAST-BL**
4"/100mm x 1½" pipe	
Code	**BOSS110TCAST-BL**
3½"/90mm x 1¼" pipe	
Code	**BOSS90CAST-BL**
3½"/90mm x 1½" pipe	
Code	**BOSS90TCAST-BL**
3"/82mm x 1¼" pipe	
Code	**BOSS82CAST-BL**
3"/82mm x 1½" pipe	
Code	**BOSS82TCAST-BL**

Mechanical Soil and Rainwater Pipe Boss Connector for 1¼" pipe

Code	**BOSSCONN1.25BL**
Code	**BOSSCONN1.25GR**

Reducer in ABS 1¼" plain tail x 19/23mm universal compression connection

Code	**R16-BL**
Code	**R16-GR**

Mechanical Soil and Rainwater Pipe Boss Connector for 19/23mm pipe

Code	**BOSSCONN-22MM**

Condensate Products

Bath Traps 75mm, 60mm, 50mm and 19mm Water Seal

Bath Traps without Overflows

1½" x 75mm Water Seal

Code	L10

1½" x 75mm Water Seal Anti-Syphon (Silentrap)

Code	L10V

1½" x 60mm Water Seal (Extended Body)

Code	SM10E

1½" x 60mm Water Seal (Extended Body) Anti-Syphon (Silentrap)

Code	SM10EV

1½" x 50mm Water Seal

Code	SM10

1½" x 50mm Water Seal Anti-Syphon (Silentrap)

Code	SM10V

1½" x 50mm Water Seal

Code	SMP10

1½" x 50mm Water Seal Anti-Syphon (Silentrap)

Code	SMP10V

■ For Bath Waste Outlet Fittings suitable for use with the above Traps see pages 93-95

1¼" x 19mm Water Seal

Code	P10

1½" x 19mm Water Seal

Code	Q10

Bath Trap with Top Access

- ■ 1½" x 50mm water seal swivel bath trap
- ■ CP brass waste with top access and spring-loaded mushroom plug
- ■ Matching CP mushroom plug and CP overflow face
- ■ Adjustable flexible overflow tube length 330mm - 580mm
- ■ Overall height of trap only 112mm
- ■ **FOR EXTENSION KIT SEE PAGE 30**

Code	HC2650UK

Bath Traps with Overflows

1½" x 75mm Water Seal with flexible overflow tube and CP overflow grating

Code   **FJ10***

1½" x 75mm Water Seal with flexible overflow tube and CP overflow grating and 70mm flange centre pin waste outlet fitting

Code   **FJ10WC***

1½" x 60mm Water Seal (Extended Body) with flexible overflow tube and CP overflow grating

Code   **FSK10E***

1½" x 50mm Water Seal with flexible overflow tube and CP overflow grating

Code   **FSK10***

■ For Bath Waste Outlet Fittings suitable for use with the above traps see page 95

All traps marked* available as anti-syphon (Silentrap). Add suffix 'V' to code. See page 4 for technical details

Bath Fillers with Trap and Overflow

General

- Filler manufactured in cast brass
- Compact filler design 70mm diameter x 25mm deep suitable for curved baths
- Will fit overflow hole size 46mm to 65mm
- 0.5 bar pressure produces 33 litres per minute
  1.0 bar pressure produces 44 litres per minute
  2.0 bar pressure produces 57 litres per minute
- **650mm WRAS approved braided hose with 90° bend**
- All traps 1$^1/_2$" x 50mm water seal with Multifit outlet
- Compression overflow connection to trap

- **HC2650UK-FIL** has a standard overflow length of 575mm but is available with a 1m length. Incorporates a swivel bath trap and CP brass waste with top access spring-loaded mushroom plug. Overall height 112mm
- **HCN3365UK** has a standard overflow length of 575mm but is available with a 1m length. Incorporates a CP brass waste and spring-loaded mushroom plug
- **HCN3165UK** has a standard cable and overflow length of 575mm but is available with a 1m cable and overflow. Incorporates CP brass waste and mushroom pop-up plug

Code	HCN3365UK
Code	HCN3365UK-1M
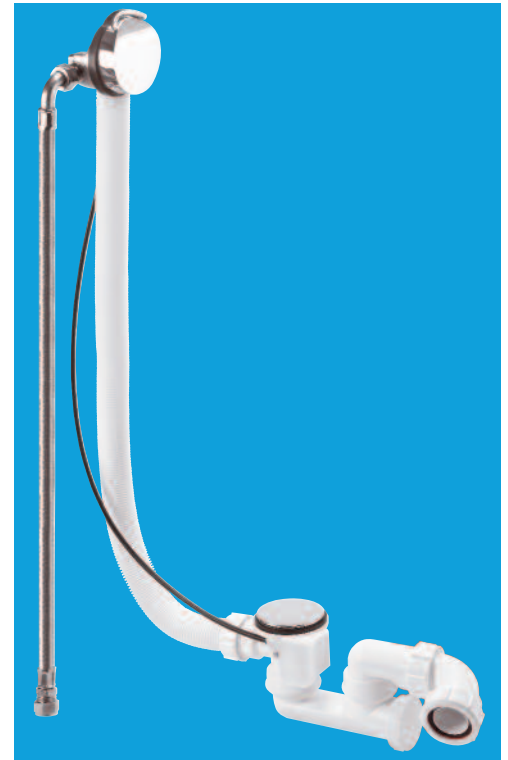
Code	HCN3165UK
Code	HCN3165UK-1M

■ **FOR EXTENSION KIT SEE PAGE 30**

Code	HC2650UK-FIL
Code	HC2650UK-FIL-1M

Overflow Manifold (Wasteflow)

Bath

Overflow from cold water tank/cistern to bath

Overflow from bath

Overflow from bath
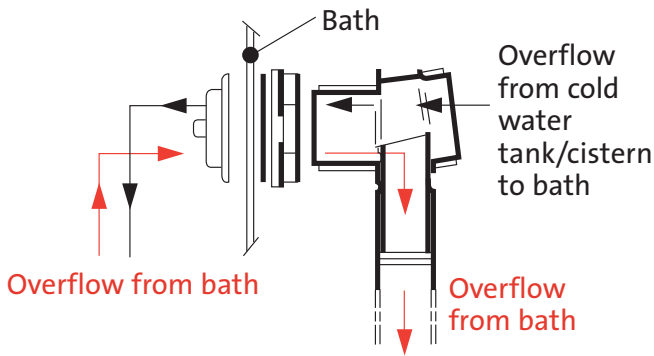
General

■ Bath Wasteflow units enable the overflow and/or warning pipe from a cold water storage cistern and a WC flushing cistern (not fitted with an integral overflow) to be installed so that the discharge is directed into the bath via the bath overflow grating

■ The construction of the Wasteflow is such that whilst acting as a conventional overflow for the bath, any overflow from a connected cistern is discharged through the overflow grating into the bath thereby providing a visible warning

■ A feature of the Wasteflow design ensures that should the overflow grating be blocked, the overflow from the cistern is diverted to discharge directly into the bath trap and not back along the overflow pipe thereby reducing the risk of flooding

■ Wasteflow is also available with connection for condensate

Advantages

■ Wasteflow is available in various forms that allow greater flexibility for the discharge of cistern overflows and condensate

■ No unsightly external overflow pipes

■ No damage to outside walls

■ No risk of freezing

■ No risk to other tenants or public

Installation

■ Wasteflow is supplied with a choice of 50mm, 60mm or 75mm water seal trap

■ Wasteflow is installed under the roll of the bath

■ Wasteflow fittings shown on page 20 enable a range of connections that may be housed within the roll of the bath or if necessary extended into a duct space

■ Overflow pipes connected to Wasteflow should have an adequate and continuous fall to ensure a natural gravity discharge

Wasteflow with pop-up waste and trap, CP brass control knob, CP stainless steel waste flange and plug
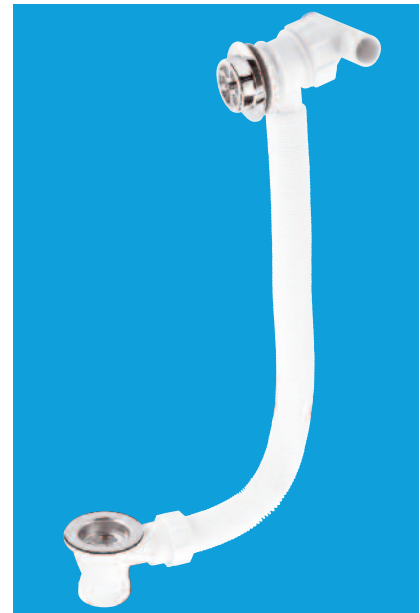
With L10 Trap   **PUWF3-CP***

Wasteflow with trap

With FJ10 Trap   **FJWF1***

■ Bath Waste Outlet Fittings see page 95

Wasteflow with 1½" waste outlet fitting, plug, chain and two way connector

Code   **WF21**

■ Wasteflow Manifolds have a 1½" BSP male thread on the inlet and will normally require an additional fitting from the list on page 22

All traps marked available as anti-syphon (Silentrap). Add suffix 'V' to code. See page 4 for technical details*

Overflow Manifold (Wasteflow)

Overflow Manifold (Wasteflow)
Chrome Plated Bath Trap with Overflow

Wasteflow

Wasteflow can be fitted with R11, R12 or R15 connector (order as required) for connection to overflow warning pipe. Side inlet connection for 19/23mm condensate or condense drain

Code	WF21-SP

Wasteflow Fittings

Straight Connector 1½" loose nut x connection for 19/23mm pipe

Code	R11

Four Way Connector 1½" loose nut x four connections for 19mm pipe, supplied with three plugs

Code	R12

ABS Adaptor to convert 19mm connections on R12 and R15 fittings up to 23mm OD pipe

Code	R13

¾" In-Line Non-Return Valve

Code	R14

2 Way Connector 1½" loose nut x two connections for 19mm pipe, supplied with one plug

Code	R15

■ See page 71 for WC Overflow Kits with Tundish

Chrome Plated Brass Bath Traps with Combined Waste and Overflow

Trap only

1½" x 50mm Water Seal CP Brass Trap: 1½" CP brass combined waste and overflow with 70mm spring-loaded mushroom plug and matching overflow face

Code	BRASSTRAP-50-CP

1½" x 25mm Water Seal CP Brass Trap: 1½" CP brass combined waste and overflow with 70mm spring-loaded mushroom plug and matching overflow face

Code	BRASSTRAP-25-CP

Trap only

1½" x 50mm Water Seal CP Brass Trap x 1½" universal compression outlet

Code	BATHTRAP50-CPB

1½" x 25mm Water Seal CP Brass Trap x 1½" universal compression outlet

Code	BATHTRAP25-CPB

110mm x 50mm Water Seal Pushfit Traps, Urinal Bowl Syphonic Traps and Condensation Trap

110mm x 50mm Water Seal Pushfit Traps

Pushfit Traps are manufactured in high density polyethylene and the inlet and outlet sealing rings from a proven synthetic rubber compound. Pushfit traps will suit WC squatting pans, slop hoppers or similar appliances with 90-114mm plain end outlet and will connect to 110mm pipe

Code	WCTRAP4P

Code	WCTRAP4S

Urinal Bowl Syphonic Traps

Syphonic Traps have inlets to suit continental style syphonic urinal bowl to create a 75mm water seal trap. Outlet to suit 2" BS EN 1329-1:2000 solvent weld pipe

Syphonic 'P' Trap

Code	HCUP50UK

Syphonic 'S' Trap

Code	HCUS50UK

Condensation Trap

Condensation Trap has been designed as a straight socket connector for 110mm and 125mm pipe (commonly used as ducting for basic air extraction systems) and provides an internal trap/diverter which will collect condensation forming on the internal surface of the extract pipework. It allows for the connection of a 19/23mm pipe, which can be installed to drain off the condensation to a convenient position
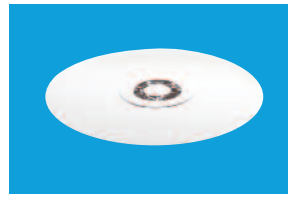

110mm pipe	
Code	CONTRAP1
125mm pipe	
Code	CONTRAP2

90mm Shower Traps with 50mm Water Seal

90mm Shower Traps with 50mm Water Seal and removable 110mm Flange to

CP Plastic Flange	CP Brass Flange	CP Brass Flange

24 — 90mm x 25mm Water Seal with 1½" Solvent Weld Outlet Socket
Overall height 53mm

| ST90CP10-53 | ST90CB10-53 | ST90CPB-P-53 |

34 — 90mm x 50mm Water Seal with 1½" Universal Compression Outlet
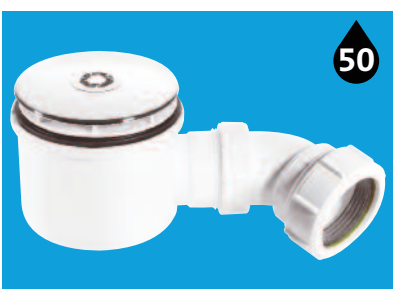Overall height 70mm

| ST90CP10-70 | ST90CB10-70 | ST90CPB-P-70 |

42 — 90mm x 50mm Water Seal with 1½" Universal Compression Outlet
Overall height 90mm

| ST90CP10-HP2 | ST90CB10-HP2 | ST90CPB-P-HP2 |

50 — 90mm x 50mm Water Seal with 2" Universal Compression Outlet
High-flow high-performance trap. Overall height 90mm
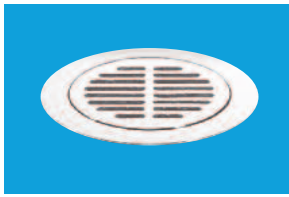
| ST90CP10-HP | ST90CB10-HP | ST90CPB-P-HP |

50 — 90mm x 50mm Water Seal with 2" Vertical Universal Compression Outlet
Overall height 106mm

| ST90CP10-V | ST90CB10-V | ST90CPB-P-V |

Do not pour drain cleaner down these products

facilitate easy cleaning

CP Brass Flange

White Plastic Flange

Flow Rates

All McAlpine shower traps with top access surpass the minimum required flow rate when tested in accordance with clause 5 of BS EN 274-2:2002.

26 Litres per minute tested under a constant **15mm Head of Water**

ST90CPB-S-53   -

ST90CPB-S-70   ST90WH10-70

ST90CPB-S-HP2   ST90WH10-HP2

ST90CPB-S-HP*   ST90WH10-HP*

* NOTE: High Performance (HP) traps to suit trays with maximum thickness of 15mm

ST90CPB-S-V   ST90WH10-V

90mm Shower Traps with 50mm Water Seal

1½" Shower Traps with Top Access

Traps with Standard Waste and Flange

- Waste grid and dip tube removable from top to facilitate easy cleaning
- 70mm or 85mm standard waste and flange - white plastic, CP plastic or CP brass
- Gold plated wastes and grids only supplied as separate items - see page 29

	70mm White Plastic Flange	85mm White Plastic Flange	70mm CP Plastic Flange
19mm Water Seal Trap with 1½" Universal Compression Outlet Overall height 95mm (26 / 50)	STW1-R	STW5-R	STW3-R
20mm Water Seal Trap with 1½" Solvent Weld Outlet Socket Overall height 65mm (22 / 40)	-	-	STW4-65
50mm Water Seal Trap with 1½" Multifit Outlet Overall height 95mm (22 / 40)	STW2-95	STW6-95	STW4-95
50mm Water Seal Resealing Trap with 1½" Multifit Outlet Overall height 118mm (26 / 54)	STW2-R	STW6-R	STW4-R
80mm Water Seal Resealing Trap with 1½" Multifit Outlet Overall height 154mm (26 / 56)	-	-	STW10-R

Do not pour drain cleaner down these products

85mm CP Plastic Flange	70mm CP Brass Flange	85mm CP Brass Flange
STW7-R	STW3-RB	STW7-RB
-	-	-
STW8-95	STW4B-95	STW8B-95
STW8-R	STW4-RB	STW8-RB
-	-	-

Flow Rates

All M^CAlpine shower traps with top access surpass the minimum required flow rate when tested in accordance with clause 5 of BS EN 274-2:2002.

26 Litres per minute tested under a constant **15mm Head of Water**

52 Litres per minute tested under a constant **120mm Head of Water**

Code **STW4-R**
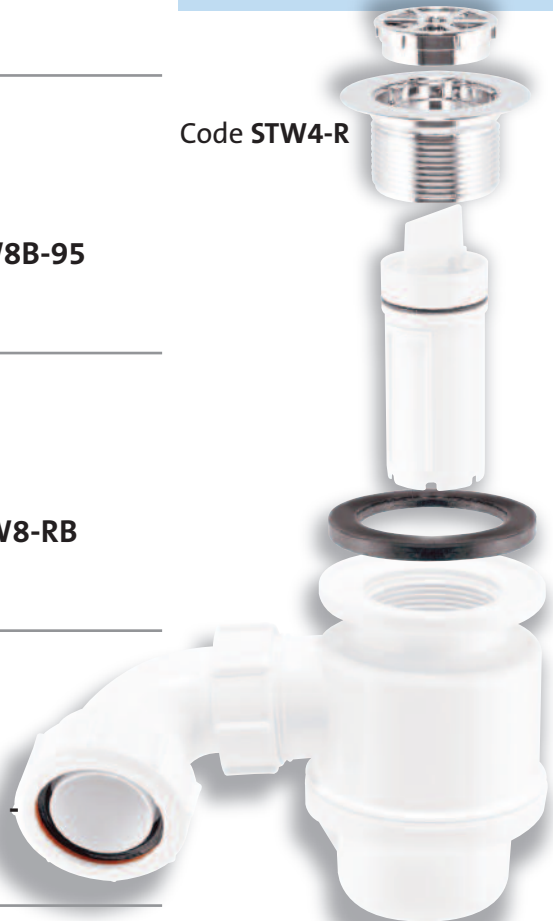
1½" Shower Traps with Top Access

1½" Shower Traps with Top Access

Traps with Waste and Mushroom Flange

- Mushroom flange and dip tube removable from top to facilitate easy cleaning
- 70mm or 85mm mushroom flange available in white plastic or CP stainless steel complete with standard locking nut

70mm White Plastic Mushroom Flange	85mm White Plastic Mushroom Flange	70mm CP Stainless Steel Mushroom Flange	85mm CP Stainless Steel Mushroom Flange
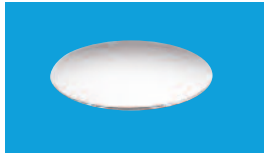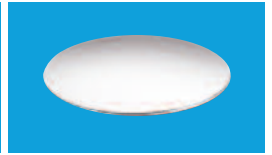
19mm Water Seal Trap with 1½" Universal Compression Outlet
26 **50** Overall height 95mm

STW1-M	STW5-M	STW3-M	STW7-M

50mm Water Seal Trap with 1½" Multifit Outlet
22 **40** Overall height 95mm

STW2M-95	STW6M-95	STW4M-95	STW8M-95

50mm Water Seal Resealing Trap with 1½" Multifit Outlet
26 **54** Overall height 118mm

STW2-M	STW6-M	STW4-M	STW8-M

Flow Rates

All McAlpine shower traps with top access surpass the minimum required flow rate when tested in accordance with clause 5 of BS EN 274-2:2002.

26 Litres per minute tested under a constant **15mm Head of Water**

52 Litres per minute tested under a constant **120mm Head of Water**

Do not pour drain cleaner down these products

70mm x 25mm Water Seal Trap with Top Access: 85mm CP Stainless Steel Mushroom Flange with 1½" BS EN 1329-1:2000 solvent weld outlet socket. Overall height 50mm

Code	ST70SS85

■ Only suitable for shower trays with a 70mm waste outlet

Standard Waste with grid to suit tray with maximum thickness of 22mm

White Plastic	
	STW70WH
	STW85WH

CP Plastic	
	STW70CP
	STW85CP
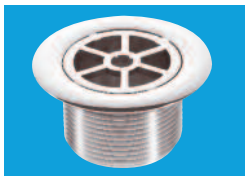
CP Brass	
	STW70CPB
	STW85CPB

GP Plastic	
	STW70GP
	STW85GP

Long Waste with grid to suit tray with maximum thickness of 29mm

White Plastic	
	STW70WHL
	STW85WHL

CP Plastic	
	STW70CPL
	STW85CPL

Grid only

White Plastic	
	STWGR-WH

CP Plastic	
	STWGR-CP

Standard Locking Nut to suit tray with maximum thickness of 22mm

White Plastic	
	STW70LN
	STW85LN

Long Locking Nut to suit tray with maximum thickness of 29mm

White Plastic	
	STW70LNL
	STW85LNL

Mushroom Flange

White Plastic	
	STW70WHM
	STW85WHM

CP Stainless Steel	
	STW70SSM
	STW85SSM

Trap Washers, Bath and Shower Trap Accessories

	1¼" Code	1½" Code	2" Code
Trap Inlet			
	RW1	RW2	RW3

	1¼" Code	1½" Code	2" Code
Multifit Rubber Olive			
	RWM1	RWM2	RWM3
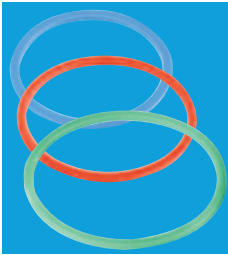
	Blue	Red	Green
Multifit Plastic Friction Washer			
	PWM1	PWM2	PWM3

Rubber Washer

For A10 CUP	ARW10
For C10 CUP	CRW10
For E10 CUP	RW3
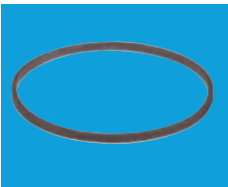
Rubber Seal to suit ST90 dip tube

P-RW-STW90

Rubber 'O' Ring Seal to suit STW dip tube

P-OR-SHOWERTRP

Dip Tube to suit STW trap

19mm water seal	STW19-TUBE
50mm water seal	STW50-TUBE
80mm water seal	STW80-TUBE
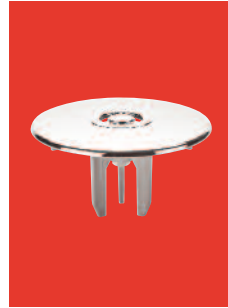
110mm CP Plastic Flange to suit ST90CP10-70, ST90CB10-70 and ST90WH10-70 traps

ST90MECPTOP+SUPP

HC2650UK Extension Kit will lower the HC2650UK trap waste outlet position in a bath which has a thicker reinforced base board or frame

HC2650-EXT-KIT

Shower and Floor Gullies
Channel Drain and Tile Drain

General Information

Shower and Floor Gullies

- McAlpine has responded to market conditions and customer demand by producing an extensive range of gullies suitable for shower and wet floor areas
- The comprehensive range of gullies is suitable for concrete and suspended timber floors finished with sheet flooring, tiles or stone
- Two-piece gullies enable the gully to be plumbed prior to installation of timber floors and wet room floor formers
- McAlpine gullies are ideal for domestic wet rooms, Lifetime Homes, disabled adaptations, student accommodation, bathroom pods, hotels, hospitals, secure accommodation and sport and leisure facilities
- Manufactured in ABS to the highest quality, McAlpine gullies comply to EN 1253-2:2003
- Flow rates of 48 litres per minute exceed the minimum requirement of EN 1253-2:2003 and are variable dependent on the grating or cover plate used
- Range of Trapped Shower Gullies (TSG) available with 50mm, 60mm and 75mm water seal, Untrapped Shower Gullies (USG) for use with pumped waste and Valve Shower Gullies (VSG) for use in floors where depth is restricted
- Choice of horizontal or vertical outlet
- All gullies have top access for easy cleaning
- Choice of white plastic, polished stainless steel and chrome plated finishes for tiles, gratings, clamp rings and cover plates

Channel Drain for Tiled Floors

- The Channel Drain is suitable for concrete and suspended timber floors finished with tiles or stone
- Manufactured in grade 304 stainless steel
- Choice of brushed or polished finish cover plate reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm

Tile Drain for Wet Floor Areas

- The Tile Drain is suitable for concrete and suspended timber floors finished with tiles or stone
- Manufactured in grade 304 stainless steel
- Choice of 150m square stainless steel designer tiles reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm

Code **TSG50T6SS**

Sheet Flooring

① Choice of cover plates with or without securing screws

② Cover plate and dip tube assembly. Choice of cover plate finishes available

③ Removable sediment cup

④ Temporary cover plate. For use during installation as a plug for preliminary air test. Will protect gully from damage by foot traffic and prevent site debris entering the drainage system

⑤ Clamp ring with 4 x M6 stainless steel screws

⑥ Four indentations suitable for size 8 countersunk screws

⑦ Gully body with 2" BS EN 1329-1:2000 solvent weld horizontal outlet

⑧ 2" x 1½" BS EN 1329-1:2000 socket reducer

Tile or Stone Floors

① Choice of tiles and gratings with or without securing screws

② Removable dip tube

③ Removable sediment cup

④ Dust cap/extension ring. For use during installation to prevent site debris entering the drainage system. The fitting can also be used for raising the height of the tile

⑤ Clamp ring for waterproofing membrane and solvent welding tile. The clamp ring has weep holes to allow any moisture at this level to discharge back into the gully and is secured by 4 x M6 stainless steel screws

⑥ Four indentations suitable for size 8 countersunk screws

⑦ Gully body with 110mm vertical outlet

⑧ 110mm x 2" BS EN 1329-1:2000 solvent weld reducer
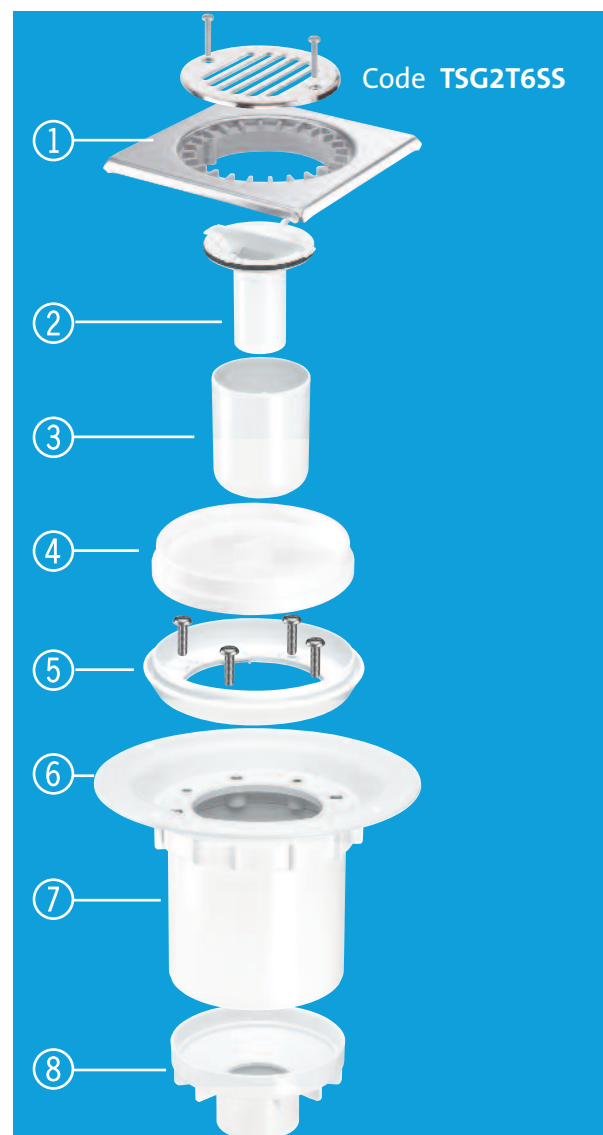
■ The two products shown illustrate the versatility of the McAlpine range of Trapped Shower Gullies. See pages 34-38 for the full range of Trapped and Untrapped Gullies

Code **TSG1-WH**

Code **TSG2T6SS**

Assembly and Features of Trapped Shower Gullies

Gullies for use with Sheet Flooring

Trapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

	White Plastic Clamp Ring and Cover Plate	Polished Stainless Steel Clamp Ring and Cover Plate	CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate

75mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1$\frac{1}{2}$" socket reducer. Overall height 130mm

	White Plastic	Polished Stainless Steel	CP Brass
With securing screws	TSG1-WH	TSG1SS	TSG1SS-SL-SC
Without securing screws	TSG1WH-NSC	-	TSG1SS-SL-NSC

50mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1$\frac{1}{2}$" socket reducer. Overall height 100mm

	White Plastic	Polished Stainless Steel	CP Brass
With securing screws	TSG50WH	TSG50SS	TSG50SS-SL-SC
Without securing screws	TSG50WH-NSC	-	TSG50SS-SL-NSC

Two-Piece Gully, 50mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet, 2" swivel outlet fitting and 2" x 1$\frac{1}{2}$" socket reducer. Overall height 100mm

	White Plastic	Polished Stainless Steel	CP Brass
With securing screws	TSG52WH	TSG52SS	TSG52SS-SL-SC
Without securing screws	TSG52WH-NSC	-	TSG52SS-SL-NSC

75mm Water Seal Trap with 110mm vertical outlet and 110mm x 2" BS EN 1329-1:2000 solvent spigot outlet. Overall height 130mm

	White Plastic	Polished Stainless Steel	CP Brass
With securing screws	TSG2WH	TSG2SS	TSG2SS-SL-SC
Without securing screws	TSG2WH-NSC	-	TSG2SS-SL-NSC

Gullies show white cover plates for illustrative purposes only. See page 52 for gully flow rates

Gullies for use with Sheet Flooring

Trapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

	White Plastic Clamp Ring and Cover Plate	Polished Stainless Steel Clamp Ring and Cover Plate	CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate

50mm Water Seal Trap with 1½" BS EN 1329-1:2000 solvent weld side inlet for the discharge from a wash hand basin with a 110mm vertical outlet to fit 110mm pipe socket or vertical 1½" solvent weld pipework. Overall height 130mm

	White Plastic Clamp Ring and Cover Plate	Polished Stainless Steel Clamp Ring and Cover Plate	CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate
With securing screws	**TSG3-WH**	**TSG3SS**	**TSG3SS-SL-SC**
Without securing screws	-	-	**TSG3SS-SL-NSC**

Gullies show white cover plates for illustrative purposes only

Untrapped Gullies

Untrapped Gully with 22mm horizontal plain outlet for use with pumped waste. Overall height 44.5mm

	White Plastic Clamp Ring and Cover Plate	Polished Stainless Steel Clamp Ring and Cover Plate	CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate
With securing screws	**USG1WH**	**USG1SS**	**USG1SS-SL-SC**

Untrapped Gully with 2" BS EN 1329-1:2000 solvent weld vertical outlet and 2" x 1½" socket reducer. Overall height 70.5mm

	White Plastic Clamp Ring and Cover Plate	Polished Stainless Steel Clamp Ring and Cover Plate	CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate
With securing screws	**USG2WH**	**USG2SS**	**USG2SS-SL-SC**

Untrapped Gully with 1½" BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 70.5mm

	White Plastic Clamp Ring and Cover Plate	Polished Stainless Steel Clamp Ring and Cover Plate	CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate
With securing screws	**USG3WH**	**USG3SS**	**USG3SS-SL-SC**

Gullies show white cover plates for illustrative purposes only. See page 52 for gully flow rates

Gullies for use with Sheet Flooring

Gullies for use with Tiled or Stone Floors where a Waterproofing

Trapped Gullies

Choose the appropriate gully body and cover plate finish required
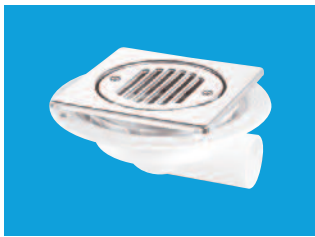
Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

	150mm Square Polished Stainless Steel Tile with removable Grid	150mm Square White ABS Tile with removable Grid	125mm Diameter Polished Stainless Steel Grating with removable Grid

75mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1½" socket reducer. Overall height 130mm
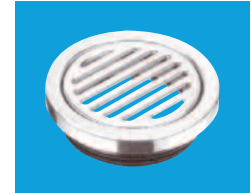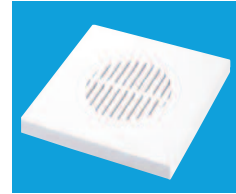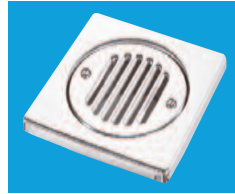
	150mm Square Polished Stainless Steel Tile	150mm Square White ABS Tile	125mm Diameter Stainless Steel Grating
With securing screws	**TSG1T6SS**	-	-
Without securing screws	**TSG1-T150SS**	**TSG1T6WH**	**TSG1-R125SS**

50mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1½" socket reducer. Overall height 100mm

	150mm Square Polished Stainless Steel Tile	150mm Square White ABS Tile	125mm Diameter Stainless Steel Grating
With securing screws	**TSG50T6SS**	-	-
Without securing screws	**TSG50-T150SS**	**TSG50T6WH**	**TSG50-R125SS**

Two-Piece Gully, 50mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet, 2" swivel outlet fitting and 2" x 1½" socket reducer. Overall height 100mm

	150mm Square Polished Stainless Steel Tile	150mm Square White ABS Tile	125mm Diameter Stainless Steel Grating
With securing screws	**TSG52T6SS**	-	-
Without securing screws	**TSG52-T150SS**	**TSG52T6WH**	**TSG52-R125SS**

75mm Water Seal Trap with 110mm vertical outlet and 110mm x 2" BS EN 1329-1:2000 solvent spigot outlet. Overall height 130mm

	150mm Square Polished Stainless Steel Tile	150mm Square White ABS Tile	125mm Diameter Stainless Steel Grating
With securing screws	**TSG2T6SS**	-	-
Without securing screws	**TSG2-T150SS**	**TSG2T6WH**	**TSG2-R125SS**

Gullies show square stainless steel cover plates for illustrative purposes only. All above gullies supplied with white plastic clamp ring. See page 52 for gully flow rates

Untrapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

150mm Square Polished Stainless Steel Tile with removable Grid	150mm Square White ABS Tile with removable Grid	125mm Diameter Polished Stainless Steel Grating with removable Grid
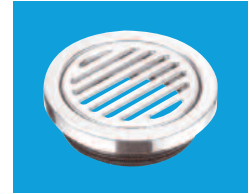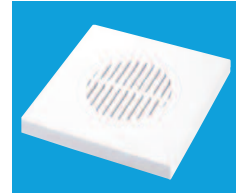
Untrapped Gully with 22mm horizontal plain outlet for use with pumped waste. Overall height 44.5mm

With securing screws	**USG1T6SS**	-	-
Without securing screws	**USG1-T150SS**	-	-

Untrapped Gully with 2" BS EN 1329-1:2000 solvent weld vertical outlet and 2" x 1½" socket reducer. Overall height 70.5mm

With securing screws	**USG2T6SS**	-	-
Without securing screws	**USG2-T150SS**	-	-

Untrapped Gully with 1½" BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 70.5mm

With securing screws	**USG3T6SS**	-	-
Without securing screws	**USG3-T150SS**	-	-

Gullies show square stainless steel cover plates for illustrative purposes only. See page 52 for gully flow rates

Gullies for use with Tiled or Stone Floors

Two-Piece Gully and Gully with Non-Return Valve

- Two-piece gullies have been specifically designed for use with timber floors and floor formers and can be plumbed prior to the installation of the floor or former. See pages 34-40 for product range

- The Valve Shower Gully (VSG) has been developed to satisfy customer demand for a shallow gully suitable for installation in floors where depth is restricted

Code **VSG1WH-NSC**

Code **TSG52T6SS**

Gullies with Non-Return Valve for use where floor depth is restricted

- The Valve Shower Gully (VSG) has been developed to satisfy customer demand for a shallow gully suitable for installation in floors where depth is restricted
- The overall height of the VSG1 is only 75mm and the valve is a substitute for a regulatory water seal trap which cannot be incorporated in a gully of this height
- There are currently no regulations to cover the use of anything other than water seal traps in domestic drainage systems. Although valves have been in existence for some time, it is advisable to seek guidance from the local building control department prior to use
- The valve acts as a non-return valve, the weight of the water discharge will open the valve and it will reseal when the discharge has ceased thus prohibiting foul air from entering the dwelling
- The valve eliminates the release of foul air due to back flow
- The valve can be easily removed to facilitate easy cleaning of the gully
- The VSG range has a minimum flow rate of 30 litres per minute when tested with a 15mm head of water

White Plastic Clamp Ring with Cover Plate and $1\frac{1}{2}$"
BS EN 1329-1:2000 solvent weld horizontal outlet.
Overall height 75mm

	Code
With securing screws	**VSG1WH**
Without securing screws	**VSG1WH-NSC**

Two-Piece Gully, White Plastic Clamp Ring with Cover Plate and $1\frac{1}{2}$" BS EN 1329-1:2000 solvent weld horizontal outlet.
Overall height 85mm

With securing screws	**VSG52WH**

150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws $1\frac{1}{2}$" BS EN 1329-1:2000 solvent weld horizontal outlet.
Overall height 75mm

	VSG1T6SS

See page 52 for gully flow rates

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

Gullies with Non-Return Valve

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Gullies with Non-Return Valve for use where floor depth is restricted

Two-Piece Gully, 150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws
1$\frac{1}{2}$" BS EN 1329-1:2000 solvent weld horizontal outlet.
Overall height 85mm

Code	VSG52T6SS

Gullies with Anti-Ligature Grating for use with Sheet Flooring

- Shower gullies with anti-ligature grating have been designed for use in secure accommodation
- Grating is Home Office approved
- All gullies supplied with security screwdriver bit to release anti-ligature grating

75mm Water Seal Trap 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1$\frac{1}{2}$" socket reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.
Overall height 130mm

Code	TSG1-ANTI/LIG

50mm Water Seal Trap 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1$\frac{1}{2}$" socket reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.
Overall height 100mm

Code	TSG50-ANTI/LIG

Two-Piece Gully, 50mm Water Seal Trap 2" BS EN 1329-1:2000 solvent weld horizontal outlet, 2" swivel outlet fitting and 2" x 1$\frac{1}{2}$" socket reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.
Overall height 100mm

Code	TSG52-ANTI/LIG

75mm Water Seal Trap with 110m vertical outlet and 110mm x 2" BS EN 1329-1:2000 solvent weld reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.
Overall height 130mm

Code	TSG2-ANTI/LIG

Top Access Shower Traps for use with Sheet Flooring, Tiled or Stone Floors

For Sheet Flooring
19mm Water Seal Trap with $1\frac{1}{2}$" universal compression outlet, white plastic clamp ring and cover plate with securing screws.
Overall height 138mm

Code	TSG1WH-STW1R

For Sheet Flooring
50mm Water Seal Trap with $1\frac{1}{2}$" x 90° swivel Multifit outlet bend, white plastic clamp ring and cover plate with securing screws.
Overall height 138mm

Code	TSG1WHSTW295

For Sheet Flooring
50mm Water Seal Resealing Trap with $1\frac{1}{2}$" x 90° swivel Multifit outlet bend, white plastic clamp ring and cover plate with securing screws.
Overall height 167mm

Code	TSG1WH-STW2R

For Tiled or Stone Floors
19mm Water Seal Trap with $1\frac{1}{2}$" universal compression outlet, 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 138mm

Code	TSG1T6SS+STW1-R

For Tiled or Stone Floors
50mm Water Seal Trap with $1\frac{1}{2}$" x 90° swivel Multifit outlet bend, 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 138mm

Code	TSG1T6SSSTW295

For Tiled or Stone Floors
50mm Water Seal Resealing Trap with $1\frac{1}{2}$" x 90° swivel Multifit outlet bend, 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 167mm

Code	TSG1T6SS-STW2R

Do not pour drain cleaner down these products
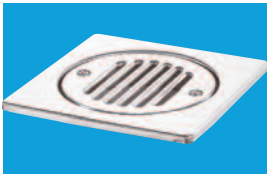
150mm Square Polished Stainless Steel Tile with removable grid and securing screws. Tile has ABS spigot adaptor for solvent welding to clamp ring

Code	FGTOP6SS
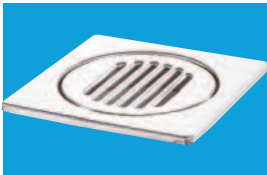
150mm Square Polished Stainless Steel Tile with removable grid. Tile has a removable ABS spigot adaptor for solvent welding to clamp ring leaving a rubber gasket to fit inside 110mm pipe

Code	FGT150TOP
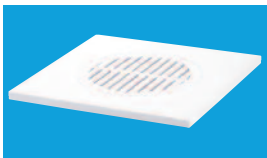
150mm Square White ABS Tile with removable grid. Tile has spigot adaptor for solvent welding to clamp ring

Code	MDTOP-WH

200mm Square White ABS Tile with removable grid. Tile has spigot adaptor for solvent welding to clamp ring

Code	MDTOP20-WH

125mm Diameter Polished Stainless Steel Grating with removable grid. Grating has a removable ABS spigot adaptor for solvent welding to clamp ring leaving a rubber gasket to fit inside 110mm pipe. Suitable for stone shower bases

Code	FGTR125TOP

150mm Stainless Steel Tile with Internal Non-Return Valve

- Suitable for wet floor areas where 4"/110mm drainage pipework has been installed to the finished floor level and no waterproofing membrane is required
- The internal non-return valve prevents foul air entering the building
- The 150mm square tile can be fitted on a trapped or untrapped drain

- Ideal for replacement and repair of a damaged tile or problem systems
- Push-fit or solvent weld spigot suitable for direct connection to 4"/110mm drainage pipework
- Valve easily removed for cleaning and maintenance work
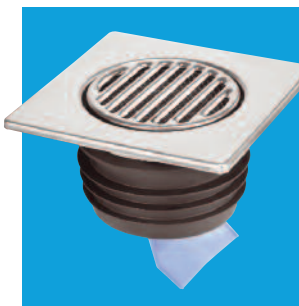
150mm square stainless steel tile with silicone non-return valve and removable grid including removable stainless steel mesh filter

Code	FGT150-SV-110

150mm square stainless steel tile with silicone non-return valve and securing screws. ABS solvent weld connection to 4"/110mm drainage pipework

Code	FGT150-SV-110S

Tiles and Gratings
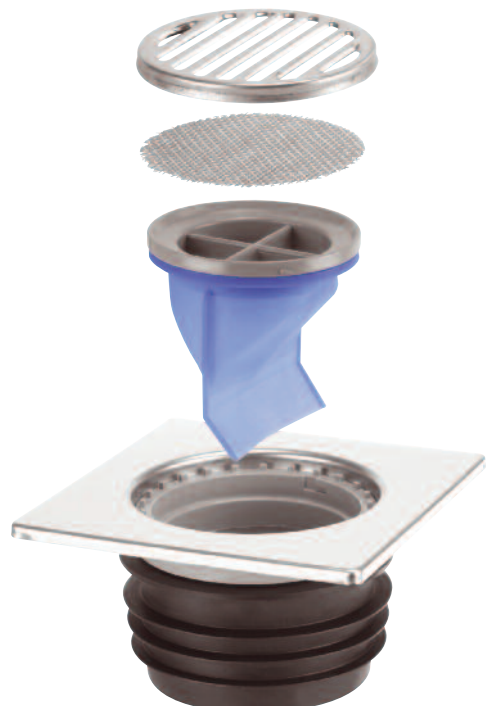
Gullies suitable for Concrete Ground Floors where a Waterproofing Membrane is not required

Trapped Gully Bodies

Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully manufactured in grey ABS with 2"/3" solvent weld horizontal outlet. Height can be extended by solvent welding length of 110mm PVC pipe between gully body and tile. Inlet connections are for solvent welding to 1$\frac{1}{2}$" ABS/PVC pipe, internal fit or 2" ABS/PVC pipe, external fit. Overall height 152mm

For Tiles and Gratings see page 42

Code	MD100

Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully manufactured in grey ABS with 3" solvent weld horizontal outlet. Height can be extended by solvent welding length of 110mm PVC pipe between gully body and tile. Inlet connections are for solvent welding to 1$\frac{1}{2}$" ABS/PVC pipe, internal fit or 2" ABS/PVC pipe, external fit. Overall height 152mm

For Tiles and Gratings see page 42

Code	MD100-3

Adaptors for Inlet and Outlet Connections
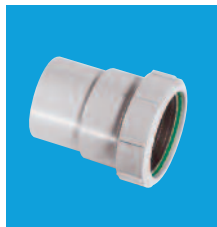
Multi-Drain Inlet Fitting
2" solvent weld x 2" universal compression

Code	MD200
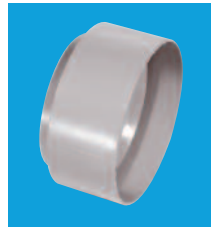
Multi-Drain Outlet Fitting
3" solvent weld x 110mm solvent weld

Code	MD400

Untrapped Gullies with Top Access for Tiled Floors

Untrapped Gully with 1$\frac{1}{2}$" BS EN 1329-1:2000 solvent weld horizontal outlet and 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 68mm

Code	FD90-T6SS

Untrapped Gully with 1$\frac{1}{2}$" BS EN 1329-1:2000 solvent weld horizontal outlet and 150mm square white ABS tile with removable grid.
Overall height 68mm

Code	FD90-T6WH

Do not pour drain cleaner down these products

Gullies suitable for Concrete Ground Floors

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Channel Drain for Tiled Floors

- Supplied with 1½" x 50mm water seal trap with top access for easy cleaning
- Available with polished or brushed finished grade 304 stainless steel cover plate
- Cover plate reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm

- Flow rate 54 litres per minute. Calculated under a constant 120mm head of water
- Supplied with adjustable height support legs for concrete floor installations. Adjustable height 128-170mm
- There are two M^{C}Alpine ranges: Standard and Slimline channel drains. Both are available in a choice of lengths, designs and finishes

Standard Channel Drain for Tiled Floors

31mm | CD1200 - 1148mm | 31mm
CD1000 - 948mm
CD900 - 848mm
CD800 - 748mm
CD700 - 648mm
CD600 - 548mm

85mm

Width of Channel Frame 88mm

20.5 - 25.5mm
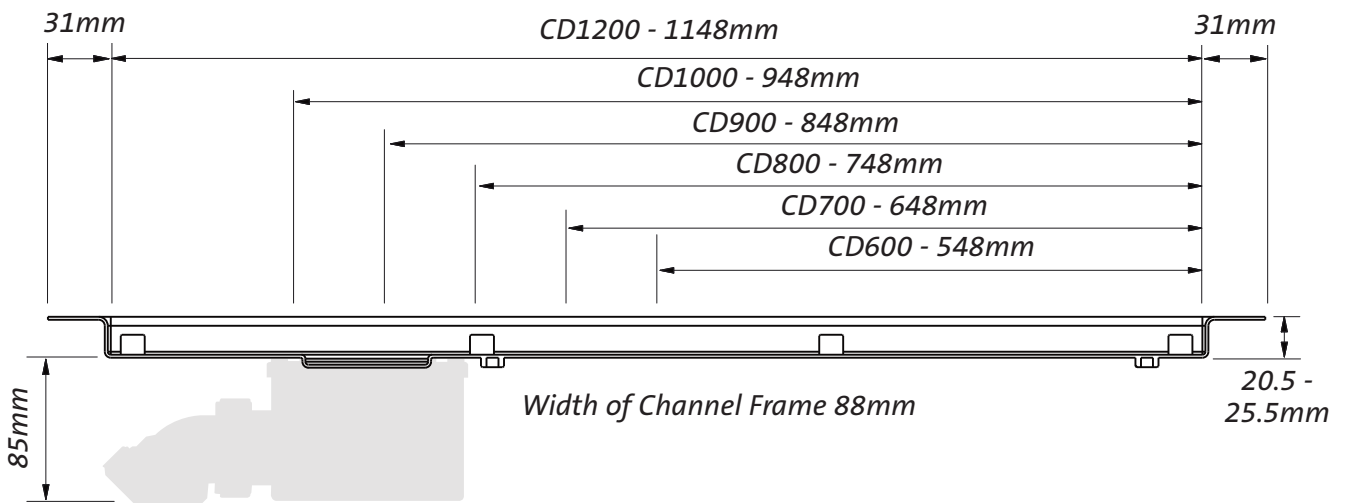
Do not pour drain cleaner down these products
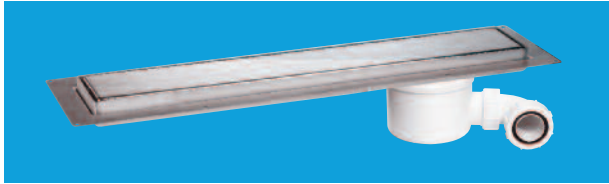
Standard Channel Drain with brushed finish cover plate

Code	**CD600-B**
Code	**CD700-B**
Code	**CD800-B**
Code	**CD900-B**
Code	**CD1000-B**
Code	**CD1200-B**
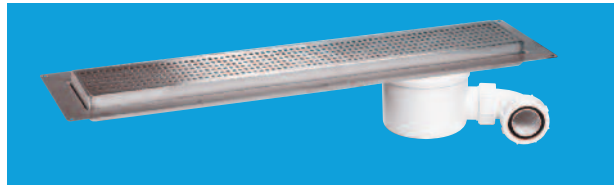
Standard Channel Drain with grid (brushed finish)

Code	**CD600-SQ**
Code	**CD700-SQ**
Code	**CD800-SQ**
Code	**CD900-SQ**
Code	**CD1000-SQ**
Code	**CD1200-SQ**

Standard Channel Drain with polished finish cover plate

Code	**CD600-P**
Code	**CD700-P**
Code	**CD800-P**
Code	**CD900-P**
Code	**CD1000-P**
Code	**CD1200-P**

Cover plates available separately on request

Scan here to view our Installation video or visit our website www.mcalpineplumbing.com

Channel Drain for Tiled Floors

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Do not pour drain cleaner down these products

Channel Drain for Tiled Floors

Slimline Channel Drain for Tiled Floors

31mm

CD1200 - 1148mm
CD1000 - 948mm
CD900 - 848mm
CD800 - 748mm
CD700 - 648mm
CD600 - 548mm

85mm

Width of Channel Frame 51mm

20.5 - 25.5mm
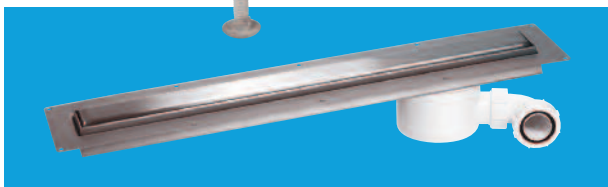
Slimline Channel Drain with brushed finish cover plate

Code	
Code	**CD600-O-B**
Code	**CD700-O-B**
Code	**CD800-O-B**
Code	**CD900-O-B**
Code	**CD1000-O-B**
Code	**CD1200-O-B**

Cover plates available separately on request
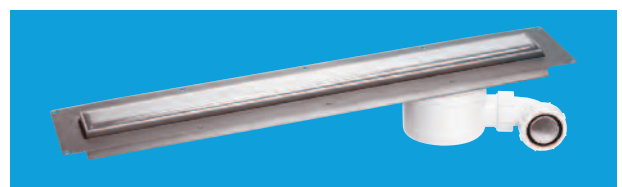
Slimline Channel Drain with polished finish cover plate

Code	
Code	**CD600-O-P**
Code	**CD700-O-P**
Code	**CD800-O-P**
Code	**CD900-O-P**
Code	**CD1000-O-P**
Code	**CD1200-O-P**

Do not pour drain cleaner down these products

Tile Drain for Wet Floor Areas

- Tiles suitable for 50mm water seal traps as illustrated
- Tiles supplied with brushed or polished finish. All in grade 304 stainless steel
- Tiles reversible to accommodate tiles up to 8mm
- Tile frame dimension 150mm square
- Frame height adjustable to suit tiles up to 16mm
- Supplied with adjustable height support legs for concrete floor installations

Code	**TILE-PLAIN-B**
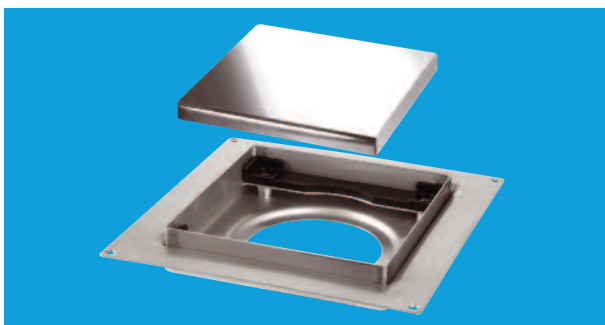
Code	**TILE-PLAIN-P**

50mm Water Seal Trap Body
with 1½" Multifit outlet. Adjustable height 105-168mm. Flow rate 34 l/min*

Code	**ST90-70B**

50mm Water Seal Trap Body
with 1½" Multifit outlet. Adjustable height 120-168mm. Flow rate 42 l/min*

Code	**ST90-HP2B**

50mm Water Seal Trap Body
with 2" Multifit outlet. Adjustable height 120-168mm. Flow rate 50 l/min*

Code	**ST90-HPB**

*Flow rate calculated under a constant 15mm head of water

Do not pour drain cleaner down these products

Tile Drain for Wet Floor Areas

Installation Guidelines

General Notes and Guidance for Shower Gullies

- All Trapped (TSG), Untrapped (USG) and Valve (VSG) shower gullies can be used in concrete or suspended timber floors
- All gullies are ideal for shower and wet floor areas
- Fixing instructions are supplied with each gully

Sheet Flooring

- Set the gully into the floor and ensure that the top surface of the gully flange is flush with, or slightly below, the floor surface on which the flooring is to be laid
- Ensure the gully body is fully supported, do not rely solely on the gully flange for support
- A watertight seal between the underside of the sheet flooring and the gully flange must be achieved with the use of a neutral sealant (not an acetoxy sealant) prior to the clamp ring being screwed into position

Tiled Floors

- The minimum dimension between the gully flange and top surface of the gully tile or grating, which requires to be flush with the flooring, is 13mm. This dimension cannot be reduced but if required the gully tile or grating can be raised. To do this remove the centre from the dust cap/extension ring and solvent weld the extension ring to the upstand of the clamp ring. If additional height is required an appropriate length of 110mm pipe can be solvent welded between the extension ring and the underside of the gully tile or grating
- Ensure the gully body is fully supported, do not rely solely on the gully flange for support
- A good quality waterproofing membrane should be employed to prevent water penetration to the floor structure. Ensure that the underside of the membrane is sealed to the gully flange and secured by the clamp ring to the gully body
- The clamp ring has weep holes to allow any moisture to discharge into the gully

Stone Shower Bases and Trays

- Gullies can be used with stone or marble shower bases and trays. The illustration shows how a 125mm diameter polished stainless steel grating can be connected to a 50mm water seal gully
- A waterproofing membrane should be fitted between the gully body and the underside of the base or tray

Sheet Flooring

1. Flexible sheet flooring
2. Moisture resistant chipboard, marine ply or wet room floor former
3. Floor joist

Tiled Floors

1. Floor tiles
2. Waterproof tile adhesive
3. Waterproofing membrane
4. Concrete floor

Stone Shower Base or Tray

1. Stone base or tray
2. Waterproofing membrane
3. Concrete floor

Installation Guidelines
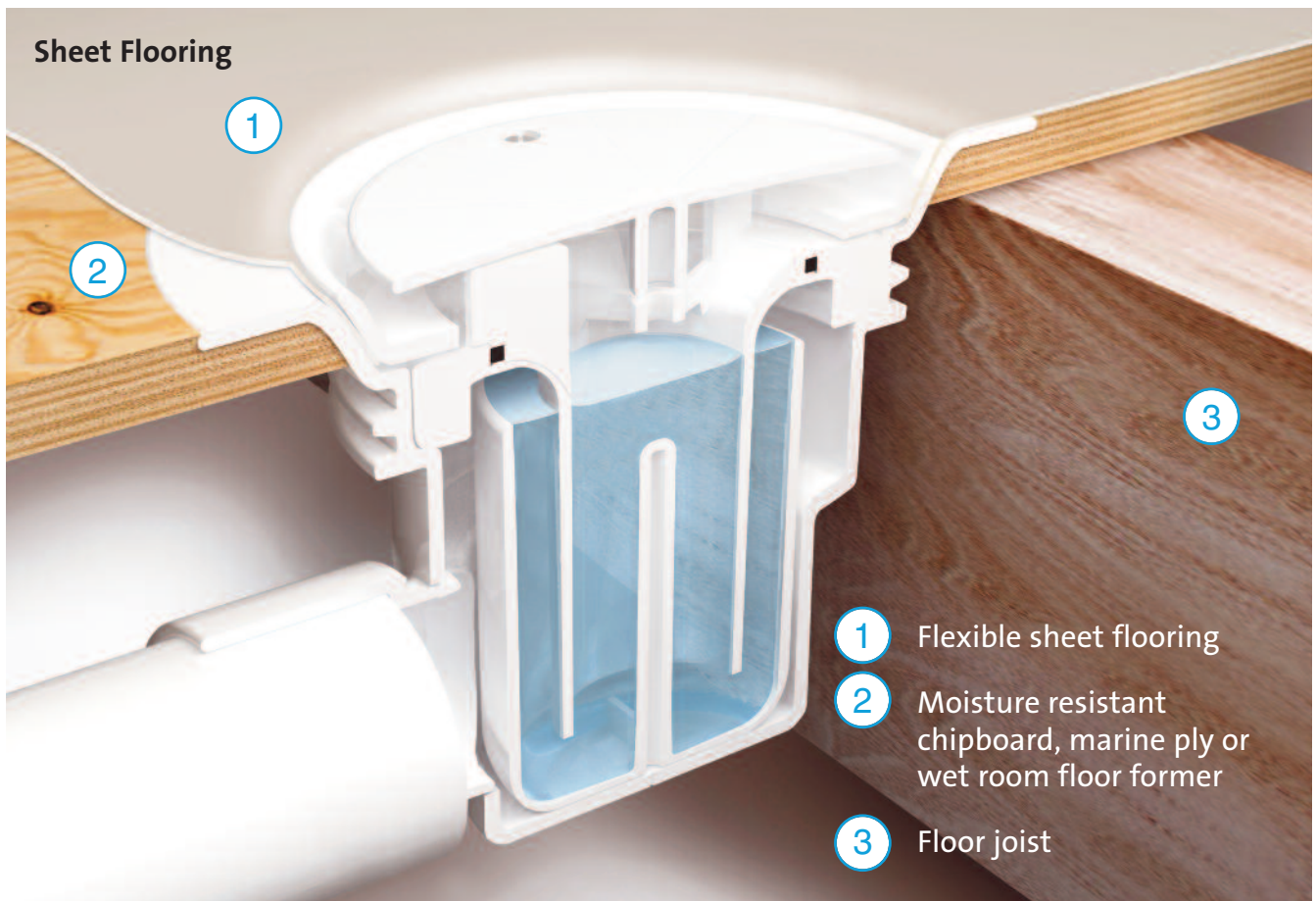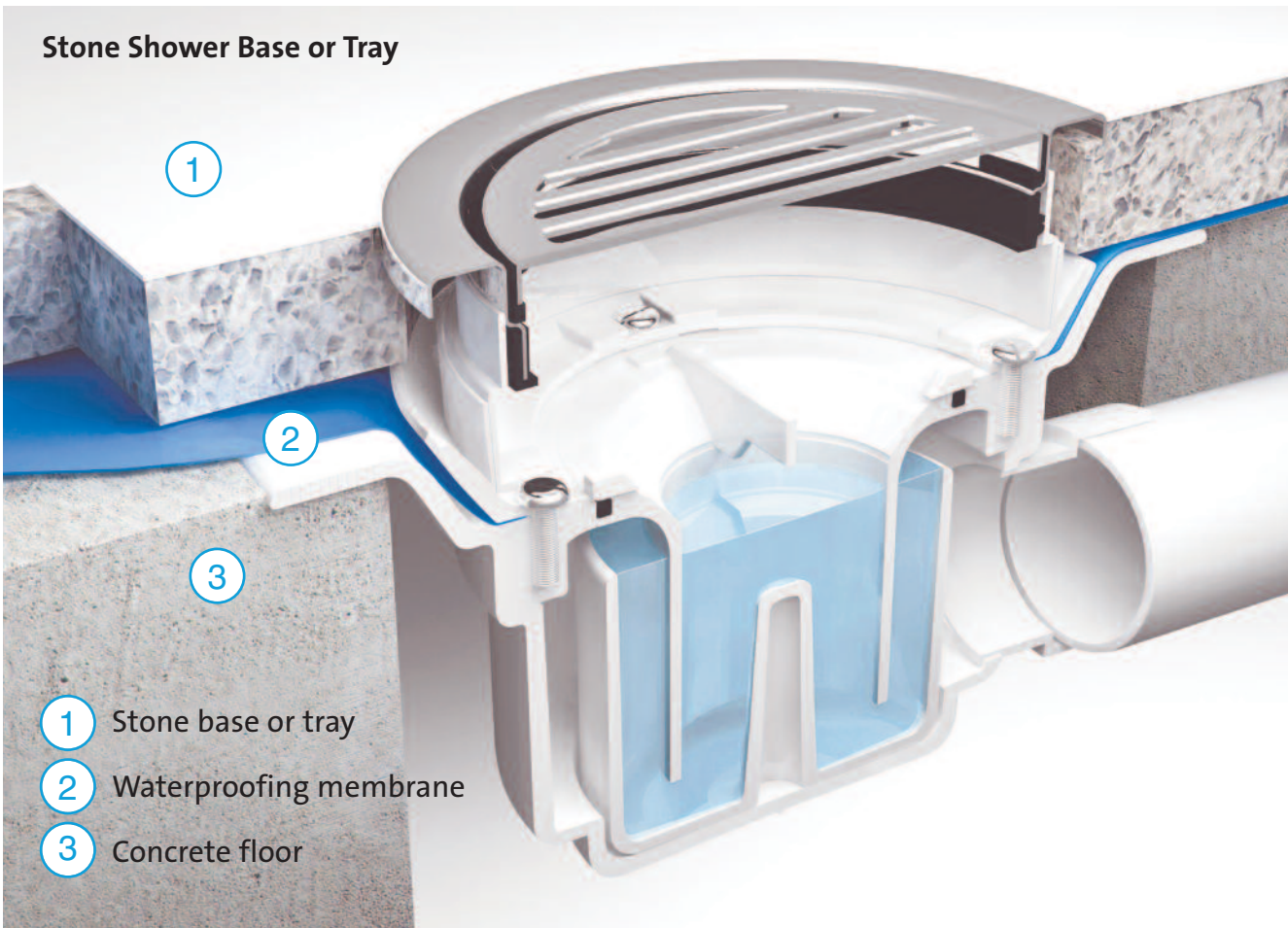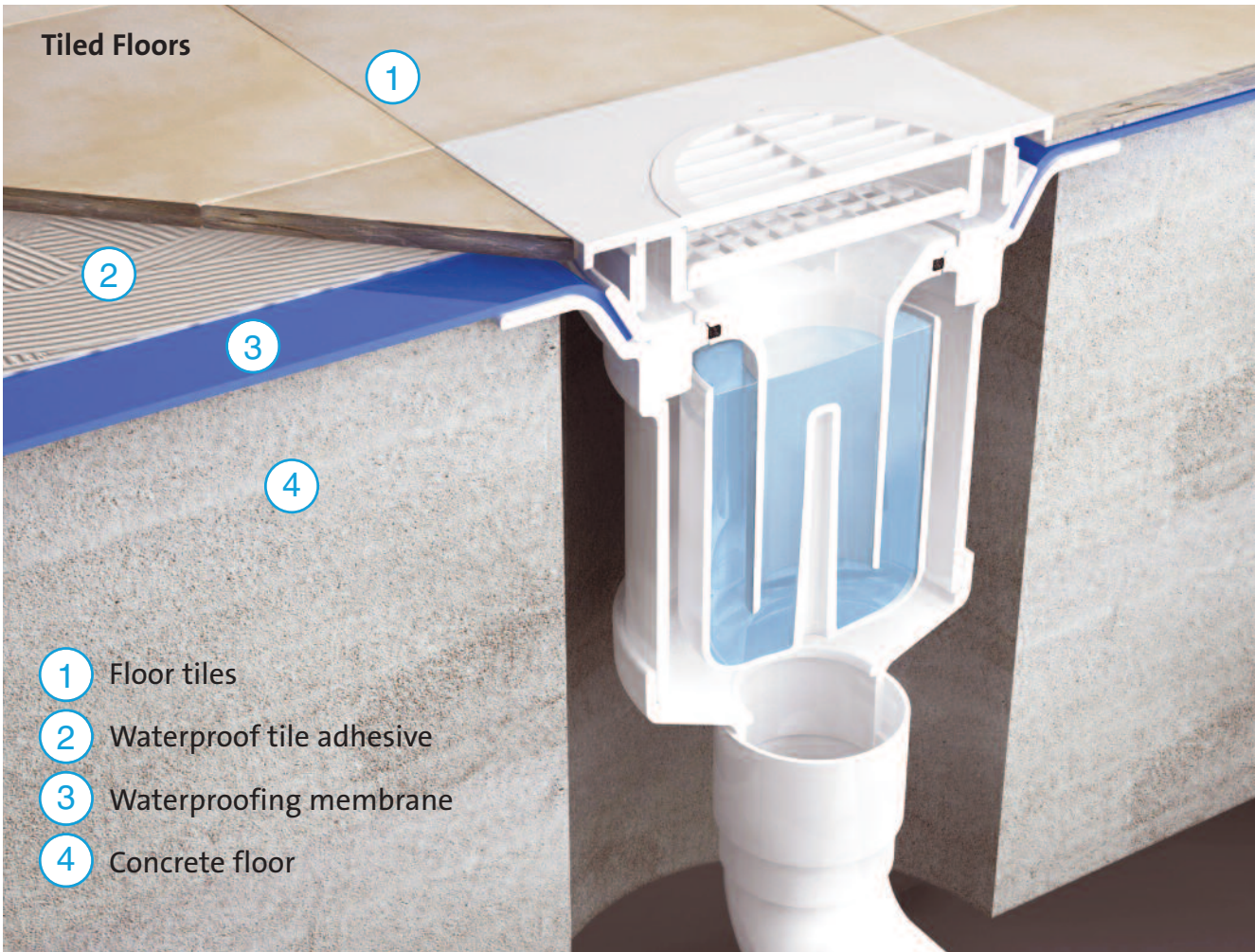
Conversion Kits

Conversion Cover Plate with 1½" Universal Pipe Boss

For use with TSG1, TSG50, TSG52 and TSG2 shower gullies for sheet flooring. Used to seal off gully or to convert to a drain connection to allow for installation of bath waste. By refitting the cover plate and dip tube the drain reverts to a trapped gully

Code	CPTSG

Conversion Kits to enable Gullies except MD100, MD100-3 and FD90 to be converted for different floor finishes

Converts any TSG1 or TSG2 Gully from tiled to a sheet flooring gully with dip tube, CP brass clamp ring, CP stainless steel grated cover plate without securing screws

Code	FGTR118TOP

Converts any TSG50 or TSG52 Gully to a sheet flooring gully with dip tube, CP brass clamp ring, CP stainless steel grated cover plate with securing screws

Code	FGTR118TOP-50

Converts any TSG1 or TSG2 Gully to a sheet flooring gully with white plastic clamp ring, cover plate and dip tube

Code	TSGCONTV

Converts any TSG1 or TSG2 Gully to a sheet flooring gully with polished stainless steel clamp ring, cover plate and dip tube

Code	TSGCONTVSS

Converts any TSG1 or TSG2 Gully to a tiled floor gully with white ABS clamp ring, 150mm square white ABS tile with removable grid and dip tube

Code	TSGCONV

Converts any TSG1 or TSG2 Gully to a tiled floor gully with white ABS clamp ring, 150mm square polished stainless steel tile with removable grid, securing screws and dip tube

Code	TSGCONVSS

Converts any Gully with a 150mm White Plastic Tile to a gully with a 150mm square polished stainless steel tile with removable grid and securing screws

Code	FGTOP6SS

Stopper for TSG Dip Tubes

For use with trapped shower gullies TSG1, TSG50, TSG52 and TSG2 models only, either sheet flooring or tiled floor versions. When after installation the gully is not going to be used there is a possibility that the water seal will evaporate. The stopper when inserted into the dip tube will prevent foul air entering the building

Code	TSGSTOP

Filter Mesh
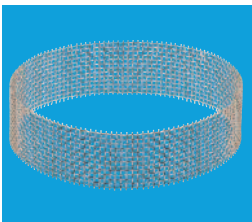
Filter Mesh to suit USG1 range of untrapped gullies

Code	MESH-1

Stability Leg

Optional Stability Leg to suit USG1 range of untrapped gullies

Code	USGLEG1

Accessories

Gully Flow Rates

All McAlpine gullies surpass the minimum required flow rate when tested in accordance with clause 5 of BS EN 274-2:2002. **The flow rate is tested under a constant 15mm head of water** and will vary depending on the tile grating cover plate used.

Code	Flow Rate Litres per minute	Code	Flow Rate Litres per minute	Code	Flow Rate Litres per minute
TSG1-ANTI/LIG	31	TSG3SS-SL-NSC	>70	USG1SS-SL-SC	10
TSG1-R125SS	56.9	TSG3SS-SL-SC	>70	USG1-T150SS	10
TSG1SS	50	TSG3-T150SS	>70	USG1T6SS	10
TSG1SS-SL-NSC	53.6	TSG3T6SS	>70	USG1WH	10
TSG1SS-SL-SC	53.6	TSG3T6WH	>70	USG1WH-NSC	10
TSG1-T150SS	55	TSG3WH	65.1	USG2SS	68
TSG1T6SS	55	TSG50-ANTI/LIG	44	USG2SS-SL-NSC	68
TSG1T6SS+STW1R	35	TSG50-R125SS	54.3	USG2SS-SL-SC	68
TSG1T6SSSTW295	32	TSG50SS	48	USG2-T150SS	68
TSG1T6SS-STW2R	37	TSG50SS-SL-NSC	50.3	USG2T6SS	68
TSG1T6WH	55	TSG50SS-SL-SC	50.3	USG2WH	68
TSG1-WH	53	TSG50-T150SS	53.6	USG3SS	65
TSG1WH-NSC	53	TSG50T6SS	52.6	USG3SS-SL-NSC	65
TSG1WH-STW1R	35	TSG50T6WH	52.5	USG3SS-SL-SC	65
TSG1WHSTW295	32	TSG50WH	50.5	USG3-T150SS	65
TSG1WH-STW2R	37	TSG50WH-NSC	51	USG3T6SS	65
TSG2-ANTI/LIG	>70	TSG52-ANTI/LIG	44	USG3WH	65
TSG2-R125SS	>70	TSG52-R125SS	54.3	VSG1T6SS	30
TSG2SS	>70	TSG52SS	48	VSG1T6WH	30
TSG2SS-SL-NSC	>70	TSG52SS-SL-NSC	50.3	VSG1WH	30
TSG2SS-SL-SC	>70	TSG52SS-SL-SC	50.3	VSG1WH-NSC	30
TSG2-T150SS	>70	TSG52-T150SS	53.6	VSG52T6SS	36
TSG2T6SS	>70	TSG52T6SS	52.5	VSG52T6WH	36
TSG2T6WH	>70	TSG52T6WH	52.5	VSG52WH	36
TSG2WH	>70	TSG52WH	50.5	VSG52WH-NSC	36
TSG2WH-NSC	>70	TSG52WH-NSC	51		
TSG3-R125SS	>70	USG1SS	10		
TSG3SS	64.5	USG1SS-SL-NSC	10		

Gully Flow Rates

Plastic Waste Pipe and Fittings
Chrome Plated Brass Waste Pipe and Fittings
Drain Connectors
Mechanical Soil Pipe Boss Connectors
Aluminium Roof Flashing (MacFlash)

McALPINE
Plumbing Products

Plastic Waste Pipe, Fittings and Drain Connectors

Multifit Waste Fittings

	1¼" Code	1½" Code	2" Code
90° Bend	MS4	MT4	MZ4

	x 32mm	x 40mm	x 50mm
90° Bend Multifit x European pipe size	MS4-ISO	MT4-ISO	MZ4-ISO

90° Bend Multifit x 32mm European pipe size ring seal pushfit	MS4-32MM	-	-

90° Bend ABS solvent weld x 32mm European pipe size ring seal pushfit	MS4-32SOLVENT	-	

	1¼"	1½"	2"
90° Bend Multifit x plain end*	MS4L	MT4L	MZ4L

	1¼"	1½"	2"
135° Bend	MS20	MT20	MZ20

	1¼"	1½"	2"
135° Bend Multifit x plain end*	MS20L	MT20L	MZ20L

	1¼"	1½"	2"
Straight Connector	S28M	T28M	Z28M

	1¼"	1½"	2"
Reducing Connector 1½" x 1¼"	-	ST28M	-

	1¼" Code	1½" Code	2" Code
Straight Connector Multifit x European pipe size	x 32mm	x 40mm	x 50mm
	S28L-ISO	T28L-ISO	Z28L-ISO
	x 40mm	-	-
	ST28L-ISO	-	-

	1¼"	1½"	2"
Adjustable Straight Connector	MS18E	MT18E	MZ18E

	1¼"	1½"	2"
Straight Connector Multifit x plain end*	MS18L	MT18L	-

	1¼"	1½"	2"
Swept Tee	V8M	V1M	V15M

	1¼"	1½"	2"
1½" Equal Slip Tee with universal compression connections	-	V1MX	-

Reducer for Fittings*	1¼"	1½"	2"
1½" x 1¼"		T12M	-
2" x 1¼"		-	ZS26L
2" x 1½"		-	ZT26L
2" x 19/23mm		-	TUN-2

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- Fittings marked* have plain ends which are designed to fit into other fittings or traps with Multifit or universal compression connection

	1¼" Code	1½" Code	2" Code
Reducer in ABS* 1¼" plain tail to BS EN 1329-1:2000 x 19/23mm universal compression connection	**R16**	-	-
Reducer in ABS* 1½" plain tail to BS EN 1329-1:2000 x 19/23mm universal compression connection	-	**R17**	-
Rubber Reducer 1¼" x 1"/28mm	**T12R**	-	-
Straight Connector Multifit x BSP female thread	**S29**	**T29**	**Z29**
Straight Connector Multifit x BSP coupling nut	**S29-LN**	**T29-LN**	-
90° Bend Multifit x BSP coupling nut	**S5M**	**T5M**	**Z5M**
95° Bend Multifit x BSP coupling nut	**S5M-A**	**T5M-A**	-
135° Bend universal compression connection x BSP coupling nut	-	**ST90-OUT**	-

	1¼" Code	1½" Code	2" Code
Straight Connector BSP male thread x universal compression connection	**S31M**	**T31M**	-
Multifit Tank Connector	**S11M**	**T11M**	**Z11M**
Multifit Bent Tank Connector	**MS4-TANK**	**MT4-TANK**	**MZ4-TANK**
Blanking Cap for Multifit fittings	**S23M**	**T23M**	**Z23M**
Blanking Cap for waste pipe with universal compression connection	**S23U**	**T23U**	**Z23U**
2" Caulking Ferrule	**S21A**	**T21A**	**Z21A**
In-Line Connector with Filter - Top Access universal compression connection x ABS plain spigot BS EN 1329-1:2000	-	**T28M-FIL**	-
Loose Nut	**S8M**	**T8M**	**Z8M**
Straight Connector pushfit to solvent weld	**S18-ABS**	**T18-ABS**	
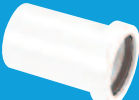
Multifit Waste Fittings

Flexible Waste Fittings and Non-Return Valves

Flexible Connector offers maximum flexibility when conventional fittings cannot be used

- Maximum effective length 18"

- PVC Plain spigot to suit Multifit and universal compression outlet traps or waste fittings. Also suitable for solvent welding to pipe BS EN 1329-1:2000

- Universal compression outlet connection

Flexible Fittings

- These fittings offer complete flexibility for any required angle or offset

165mm Approx

250mm Approx
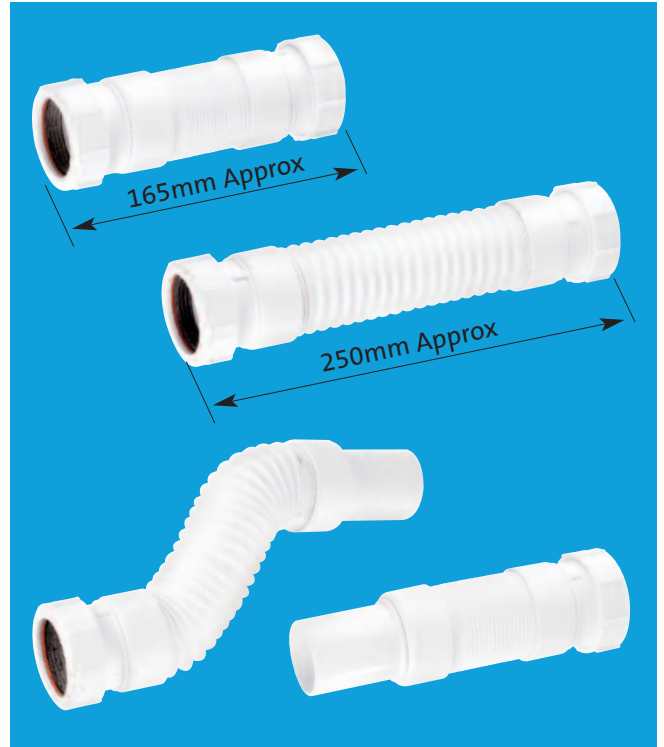
1¼" Code	1½" Code	2" Code

Universal Compression Connection x Universal Compression Connection

FLEXCON3	FLEXCON4	FLEXCON7

1¼" Code	1½" Code	2" Code
FLEXCON1	FLEXCON2	-

Flexible Connector offers maximum flexibility when conventional fittings cannot be used

- Maximum effective length 18"
- Universal compression connection x 1½" BSP coupling nut

Universal Compression Connection x PVC Plain Spigot suitable for solvent welding to pipe BS EN 1329-1:2000

FLEXCON5	FLEXCON6	FLEXCON8

-	FLEXCON2-LN	-
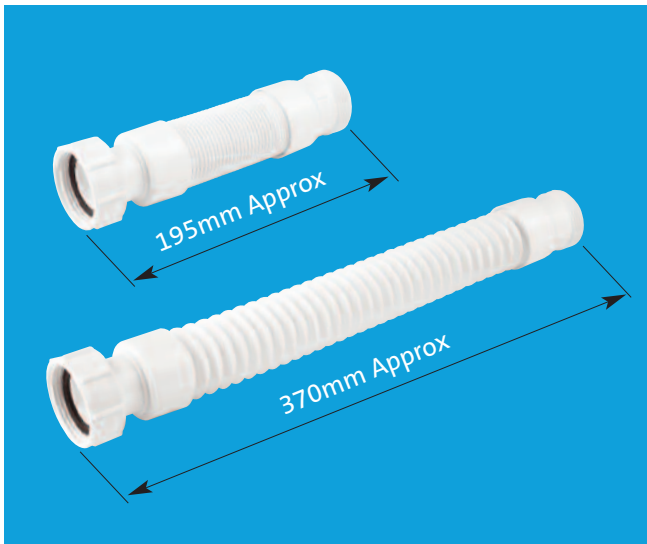
1¼" BSP coupling nut x 1¼" BSP male thread

Code	FLEX-JKS
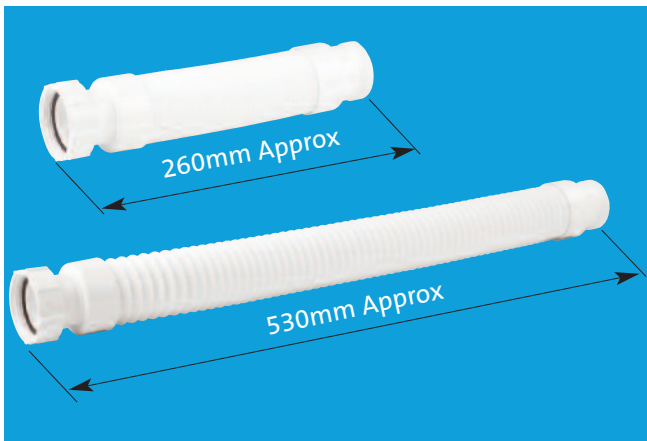
1½" BSP coupling nut x 1½" BSP male thread

Code	FLEXCON9

Non-Return Valves

	1¼" Code	1½" Code	2" Code
In-Line Non-Return Valve with 1½" universal compression connections and top access for cleaning	S28M-NRV	T28M-NRV	-
In-Line Non-Return Valve with 2" universal compression connections and top access for cleaning	-	-	Z28M-NRV
In-Line Non-Return Valve with 2" BS EN 1329-1:2000 solvent weld connections and top access for cleaning	-	-	Z28M-NRVS

■ The above Non-Return Valves are designed to prevent a back flow of water and must be installed in a horizontal position. They must only be used when there is no alternative and on the basis that they are cleaned regularly

FLEXCON9

Flexible Waste Fittings and Non-Return Valves

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Sundry Fittings

	1¼" Code	1½" Code	2" Code
90° Bend with BSP male thread x BSP coupling nut			
	S1	**T1**	**Z1**
BSP Nut ordinary			
	S8A	**T8A**	**Z8A**
BSP Nut compression			
	S8B	**T8B**	**Z8B**
Compression Ring for Imperial Copper			
	S13-ISON	**T13-ISON**	**-**
BSP Coupling to BS EN 1329-1:2000 ABS or PVC pipe, must be solvent welded			
	S25	**T25**	**-**
Trap Inlet Reducer 1¼" x 1"			
	S16	**-**	**-**
1½" x 1¼"	**T16**	**-**	
Blank Cap with nut for BSP threads			
	S23	**T23**	**Z23**
7" Extension Piece effective length 5". Available longer or shorter on application			
	S22L	**T22L**	**-**

BSP Female x BSP Male Couplings

	1¼" Code	1½" Code
BSP Coupling		
1" length	**S12A-1**	**T12A-1**
2" length	**S12A-2**	**T12A-2**
3" length	**S12A-3**	**T12A-3**
BSP Coupling flush spigot European to UK waste adaptor		
	S12A-F	**T12A-F**

BSP Female x BSP Male Couplings

	1¼" Code	1½" Code
BSP Coupling		
1¼" x 1"	**S12C**	**-**
1" x ¾"	**S12D**	**-**
BSP Coupling waste outlet reducer		
1½" x 1¼"	**-**	**T12**
BSP Coupling		
1¾" x 1½"	**-**	**T12B**
2" x 1½"	**-**	**T12C**
2" x 1¼"	**-**	**T12D**
1½" x 1"	**-**	**T12H**
BSP Coupling		
1½" x 2"	**-**	**T12E**
1½" x 1¾"	**-**	**T12F**

¾" Female Blank Cap for blanking off appliance valves with ¾" male thread

Code	**NUT-WMVALVE**

1" Female Blank Cap for traps and fittings with 1" male thread

Code	**NUT-BLANK-WH**

1½" Pipe Clip for floor mounted discharge pipe installations

Code	**T30-CLAMP**

Stackable Gradient Spacer for use with T30-CLAMP allowing for a fall of varying degrees

Code	**T30-SPACER**

Surefit Waste System

	1¼" Code	1½" Code	2" Code
HDPE White Pipe 3m lengths	HD1-3M	HD2-3M	HD3-3M
Pipe Clip	S30	T30	Z30
90° Bend	S4L	T4L	Z4L
Straight Connector	S18L	T18L	Z18L
Straight Connector Multifit x Surefit	S28L	T28L	Z28L
Reducing Connector 1½" x 1¼"	-	T12L	-
Blank Cap without nut	S23L	T23L	Z23L
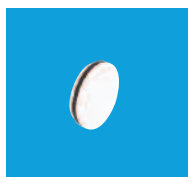
	2"-1¼"	1½"-1¼"	2"-1½"
Reducer for Fittings	S26L	T12S	T26L

	1¼" Code	1½" Code
Swept Tee	V8L	V1L
Swept Tee 1½" x 1½" x 1¼"	-	V21L
Swept Tee Surefit x 19mm pushfit branch		
1½" x 1½" x ¾"	-	V23L
1¼" x 1¼" x ¾"	V24L	-

	1¼" Code	1½" Code	2" Code
Straight Connector to soil pipe boss BS EN 1451-1:2000 size*	S18M	T18M	Z18M
Wall Flange for HDPE pipe	S17	T17	-
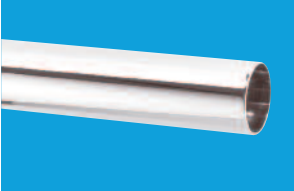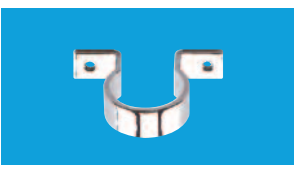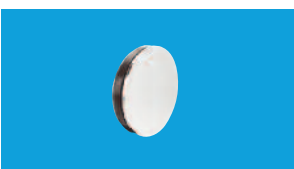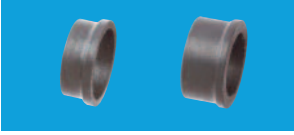
- *BS 5254 size - if connecting to boss size BS 5255 add 5255 to code e.g. S18M 5255
- Surefit waste fittings only suitable for MᶜAlpine HDPE waste pipe

Surefit Waste System

Chrome Plated Brass Waste Pipe and Fittings

	European pipe size	1¼" UK pipe size	1½" UK pipe size
1m length of CP Brass Pipe			
	PIPE32-1000-CB	PIPE35-1000-CB	PIPE42-1000-CB
CP Pipe Clip			
	S32-CP	S35-CP	T42-CP
90° Compression Bend			
	32A-CB	35A-CB	42A-CB
135° Compression Bend			
	-	35B-CB	42B-CB
Compression Tee			
	-	-	42E-CB
Blanking Cap for above fitting			
	-	-	40K-CB
Compression Straight Connector			
	32G-CB	35G-CB	42G-CB
Wall Flange			
	WALLFLANGE-CP32	WALLFLANGE-CP35	WALLFLANGE-CP42
Synthetic Rubber Seal Reducers for above fittings			
		R/SEAL-35X32	R/SEAL-42X32
			R/SEAL-42X35
ABS Solvent Weld Adaptor to convert above fittings to BS EN 1329-1:2000 plastic solvent weld waste pipe			
	ABSCON-32X1.25	ABSCON-35X1.25	ABSCON-42X1.5

NOTE: European sizes only

90° Bend 32/35mm compression CP brass x 1¼" ABS solvent weld

Code	**ABS32/35A-CB**

90° Bend 42/43mm compression CP brass x 1½" ABS solvent weld

Code	**ABS42/43A-CB**

Straight Connector 32/35mm compression CP brass x 1¼" ABS solvent weld

Code	**ABS32/35G-CB**

Straight Connector 42/43mm compression CP brass x 1½" ABS solvent weld

Code	**ABS42/43G-CB**

Elongated 90° Bend 32/35mm compression CP brass x 1¼" ABS solvent weld

Code	**ABS32/35A-CB-L**

90° Bend 32mm European pipe size ring seal pushfit x 1¼" Multifit

Code	**MS4-32MM**

90° Bend 32mm European pipe size ring seal pushfit x 1¼" ABS solvent weld

Code	**MS4-32SOLVENT**

- For Multifit fittings suitable for use with 35mm and 42mm external diameter pipe see pages 54 and 55
- For Chrome Plated Traps see pages 7 and 22

ABS32/35G-CB can be used in conjunction with WALLFLANGE-CP42. As illustrated below

Chrome Plated Brass Waste Pipe and Fittings

Drain Connectors and Blanking Off Caps

- Manufactured in polypropylene

- Finned seal spigot for internal connection to cast iron, plastic or clay 4"/110mm pipe

- Ideal for low level connections

- Reducers allow for connection to BS EN 1451-1:2000 and BS EN 1329-1:2000 pipe

4"/110mm x 4"/110mm Connector with 'O' seal socket to fit 4"/110mm pipe to BS 4514

Code (Black)	**DC1-BL**
Code (Grey)	**DC1-GR**

With 14mm offset

Code (Black)	**DC1BL-OS**
Code (Grey)	**DC1GR-OS**

Drain Connector with Boss

4"/110mm x 4"/110mm Connector with 'O' seal socket to fit 4"/110mm pipe to BS 4514 and 1½" universal pipe boss including blanking cap. **Should only be fitted on ground floor due to a reduction in the internal outlet diameter of the boss pipe connector**

Code (Black)	**DC1-BL-BO**
Code (Grey)	**DC1-GR-BO**

Drain Connector 90° Bend

90° Bend 4"/110mm x 4"/110mm with 'O' seal socket to fit 4"/110mm pipe to BS 4514

Code (Black)	**DC90-BL**
Code (Grey)	**DC90-GR**
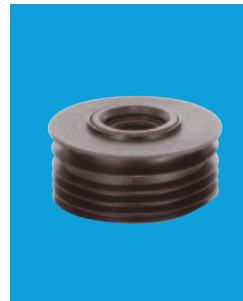
4"/110mm Reducer Connector with sealing ring to fit to plastic waste pipe

	Code
1¼" and 1½"	**DC2-BL**
2"	**DC3-BL**
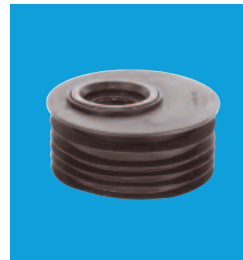
4"/110mm Reducer Connector with offset sealing ring to fit to plastic waste pipe

1¼" and 1½"	**DC2BL-OS**
2"	**DC3BL-OS**

4"/110mm Blanking Cap suitable for sealing cast iron, plastic or clay 4"/110mm pipe

Code	**DC4-BL**

Temporary Blanking Off Caps

Synthetic Rubber Cap for sealing 110mm pipe

Code	**CAP100**

1¼"	1½"	2"
Code	Code	Code

Synthetic Rubber Cap for waste pipe

S23MR	**T23MR**	**Z23MR**

- Suitable for waste water and condensate discharge
- Simple dry fixing mechanical connection
- Universal compression connection for pushfit or solvent weld waste pipe
- All boss connectors supplied with fixing tool

Mechanical Soil Pipe Boss Connectors to suit 57mm hole saw size

Two-Piece Cast Iron Soil Pipe Boss Connector to suit 22mm drill size for CONDENSATE DISCHARGE ONLY

4"/100mm x 1¼" pipe
Code **BOSS110CAST-BL**

4"/100mm x 1½" pipe
Code **BOSS110TCAST-BL**

3½"/90mm x 1¼" pipe
Code **BOSS90CAST-BL**

3½"/90mm x 1½" pipe
Code **BOSS90TCAST-BL**

3"/82mm x 1¼" pipe
Code **BOSS82CAST-BL**

3"/82mm x 1½" pipe
Code **BOSS82TCAST-BL**

4"/110mm x 1¼" pipe
Code **BOSSCONN110-BL**

4"/110mm x 1½" pipe
Code **BOSSCONN110T-BL**

4"/110mm x 2" pipe
Code **BOSSCONN110Z-BL**

3"/82mm x 1¼" pipe
Code **BOSSCONN82-BL**

3"/82mm x 1½" pipe
Code **BOSSCONN82T-BL**

3"/82mm x 2" pipe
Code **BOSSCONN82Z-BL**
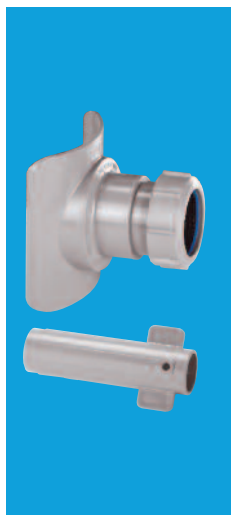
4"/110mm x 1¼" pipe
Code **BOSSCONN110-GR**

4"/110mm x 1½" pipe
Code **BOSSCONN110T-GR**

4"/110mm x 2" pipe
Code **BOSSCONN110Z-GR**

3"/82mm x 1¼" pipe
Code **BOSSCONN82-GR**

3"/82mm x 1½" pipe
Code **BOSSCONN82T-GR**

3"/82mm x 2" pipe
Code **BOSSCONN82Z-GR**

Mechanical Soil and Rainwater Pipe Boss Connectors

Mechanical Soil and Rainwater Pipe Boss Connector for 1¼" pipe

Code **BOSSCONN1.25BL**
Code **BOSSCONN1.25GR**

Reducer in ABS 1¼" plain tail x 19/23mm universal compression connection

Code **R16-BL**
Code **R16-GR**

Mechanical Soil and Rainwater Pipe Boss Connector for 19/23mm pipe

Code **BOSSCONN-22MM**

Threaded Boss Connectors

Straight Connector 2" BSP male thread x Multifit

2" BSP x 1¼" Multifit	**ZS31M**
2" BSP x 1½" Multifit	**ZT31M**
2" BSP x 2" Multifit	**Z31M**

Aluminium Roof Flashing (MacFlash)

General

■ MacFlash Aluminium Roof Flashing offers an alternative to traditional lead roof slates

■ The aluminium flashing is manufactured from high grade aluminium and the collar from synthetic rubber, both to British Standards. The collar is die-formed to the aluminium flashing

Advantages

■ MacFlash is quickly and easily installed and offers cost savings in material and labour

■ MacFlash is suitable for flat roofs and for roof pitches up to 45°

■ MacFlash has special corrugations that can be easily dressed to form a seal

■ MacFlash can be used with flue pipes from condensing boilers

Nominal Pipe Size 4"/110mm pipe
Base Measurements 18" x 18"

Code	RS1

Nominal Pipe Size 3"/75mm pipe
Base Measurements 18" x 18"

Code	RS4

Nominal Pipe Size 4"/110mm pipe
Base Measurements 18" x 24"

Code	RS2

Nominal Pipe Size 2"/50mm pipe
Base Measurements 18" x 18"
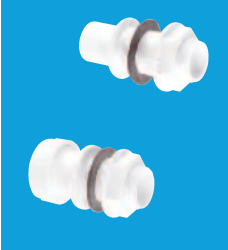
Code	RS7

Nominal Pipe Size 4"/110mm pipe
Base Measurements 24" x 24"

Code	RS3

Aluminium Roof Flashing (MacFlash)

Plastic Overflow Pipe and Fittings

Plastic Overflow Pipe and Fittings

	Code
HDPE White Overflow Pipe ¾" x 3m lengths	
	R-3M

Straight Connectors

¾" pushfit	**R1**
19/23mm universal compression connections	**R1M**

Straight Connector with universal compression connections for 19/23mm rigid pipe and 25mm flexible pipe

	R1M-CO

90° Bends

¾" pushfit	**R2**
19/23mm universal compression connections	**R2M**

135° Bends

¾" pushfit	**R2A**
19/23mm universal compression connections	**R2AM**

Tees

¾" pushfit	**R3**
19/23mm universal compression connections	**R3M**

Straight Tank Connectors

¾" pushfit	**R4**
19/23mm universal compression connections	**R4M**

	Code
Blanking Cap for overflow pipe with universal compression connection	
	R23U

Bent Tank Connectors

¾" pushfit	**R5**
19/23mm universal compression connections	**R5M**

Straight Female Coupling with fixed nut

	R6

Straight Female Coupling with loose nut

	R6A

Straight Female Coupling with fixed nut for converting male BSP outlets to pushfit fittings

	R7

90° Female Coupling with loose nut

	R8A

ABS Adaptor to convert 19mm connections up to 23mm OD pipe

	R13

Reducer in ABS 1¼" plain tail to BS EN 1329-1:2000 x 19/23mm universal compression connection

	R16

Reducer in ABS 1½" plain tail to BS EN 1329-1:2000 x 19/23mm universal compression connection

	R17

	1¼" Code	1½" Code
HDPE White Pipe 3m lengths		
	HD1-3M	HD2-3M
Pipe Clip		
	S30	T30
90° Bend		
	S4A	T4A
90° Knuckle Bend		
	S4E	T4E
90° Bend x BSP coupling nut		
	S5	T5
Straight Connector		
	S18	T18
Adaptor		
	S7	T7
BSP Nut ordinary		
	S8A	T8A
BSP Screwed Adaptor		
	S9	T9

Standing Waste Backnut Model

All standing wastes are supplied with backnut and washers
Standard length of stand pipe 18"
When ordering state:
(1) Code
(2) Height required if not 18"

1¼" x 70mm flange x 3½" tail	
Code	**SWL-18**
1½" x 70mm flange x 3½" tail	
Code	**TWL-18**
1¼" x 70mm flange x 1½" tail	
Code	**SWS-18**
1½" x 70mm flange x 1½" tail	
Code	**TWS-18**

Tank Overflow

Unslotted Waste without Grid

1¼" x 70mm flange x 3½" tail	
Code	**W10**
1½" x 70mm flange x 3½" tail	
Code	**W20**
1¼" x 70mm flange x 1½" tail	
Code	**W11**
1½" x 70mm flange x 1½" tail	
Code	**W21**

1¼" and 1½"Overflow Pipe and Pushfit Fittings

Water Storage Cistern Fittings (Ex Bye-law 30 Fittings)

¾" Code	1" Code	1¼" Code	1½" Code	2" Code
Complete Screened Tank Overflow Connector with quick release filter - standard model				
R30	H28	R40	R45	-
Complete Screened Tank Overflow Connector with quick release filter - extended model				
R30E	-	R40E	R45E	-
Screened Tank Breather				
R31	-	SWLFBR	TWLFBR	ZWLFBR
Screened Breather/Filter with universal compression connection to pipe				
R32	-	-	-	-
Tank Lid Adaptor for expansion pipe				
R33	-	-	-	-
Tank Connector				
R4M	H11M	S11M	T11M	Z11M

All the above products are WRAS Approved

WRAS APPROVED PRODUCT

Water Storage Cistern Fittings (Ex Bye-law 30 Fittings)

	¾" Code	1" Code	1¼" Code	1½" Code	2" Code

Complete ¾" BL30 Kit comprising R30, R31, R33

BL30-3/4	-	-	-	-

Screened Breather/Filter/Frost Cover with universal compression connection to pipe

-	-	SWLFCV	TWLFCV	-

In-Line Screened/Filter Pipe Coupling

RWILF	HWILF	SWILF	TWILF	ZWILF

Frost Protection Dip Tube Bend
Connect pipe to provide length of dip tube required

-	-	S5	T5	-

90° Multifit x Plain End

-	-	MS4L	MT4L	MZ4L

90° Multifit Bend

-	-	MS4	MT4	MZ4

Tundishes and Non-Return Valves

Tundishes

Tundish with ¾" pushfit outlet

Code

TUN-1

Tundish with 19/23mm universal compression outlet

TUN-2

One-Piece Side Inlet Tundish with 19/23mm universal compression outlet

TUN-3

One-Piece Tundish with ¾" loose nut inlet x 19/23mm universal compression outlet

TUN-4

One-Piece Tundish with 19/23mm universal compression inlet x 1¼" universal compression outlet

TUN-6

Non-Return Valves for WC Overflow

Tunvalve (Clear) with ¾" female threaded inlet connection to WC overflow outlet x 19/23mm universal compression outlet

Code   **TUNVALVE**

Tunvalve Straight Through (Clear) with 19/23mm universal compression connections

Code   **TUN5-CL**

In-Line Non-Return Valves

Non-Return Valve with 19/23mm universal compression connections

Code   **R28-NRV**

90° Elbow with integral Non-Return Valve. Plain tail inlet x 19/23mm universal compression outlet

Code   **R29-NRV**

Convalve Non-Return Valve with 1¼" universal compression connections

Code   **CONVALVE-125**

Convalve Non-Return Valve with 1¼" plain tail x 1¼" universal compression outlet

Code   **CONVALVE-125P**

■ Note: All above Non-Return Valves to be installed in the vertical position

WC Overflow Kits with Tundish - Overflow into Flush Pipe

■ Before installation relaxation of Bye-law 84 is required by local water authority

Code **TUNKIT-1**

Code **TUNKIT-3**

WC Overflow Kit comprises TUN-2, V33T, 90° pushfit elbow and two ¾" x 12" lengths of overflow pipe †

Code	TUNKIT-1

WC Overflow Kit comprises TUN-3, V33T, 90° pushfit elbow and two ¾" x 12" lengths of overflow pipe †

Code	TUNKIT-3

† Not suitable for use with high level cisterns as installation into external flush pipe would cause malfunction of the syphonic flushing action

Tee Pieces

Tee Piece 1½" BSP nut x 1¼" universal compression connection x 19/23mm universal compression connection †

Code	V33T

Tee Piece with universal compression connection to flush pipe at both ends x 19/23mm universal compression connection †

Code	V33T-FP

Tee Piece 1½" BSP nut x 1½" BSP thread x 19/23mm universal compression connection †

Code	V33S-22

† Not suitable for use with high level cisterns as installation into external flush pipe would cause malfunction of the syphonic flushing action

Code **TUN-6**

Code **TUNVALVE**

WC Overflow Kits with Tundish and Tee Pieces

WC Connectors
MACFIT, Flexible and Rigid

McALPINE
Plumbing Products

WC Connectors

WC Connectors

WC Connectors General

- M^{C}Alpine is the only European manufacturer to offer EVA (ethylene vinyl acetate), rigid polypropylene and flexible polypropylene WC connectors

- All outlets fit inside diameter pipe sizes as follows:
110mm Plain End:	Ring seal socket of 110mm soil or underground pipe fittings
4"/110mm:	PVC-U and cast iron
3½"/90mm:	Cast iron
3"/75mm:	PVC-U and cast iron

- Fixing instructions and dimensional leaflet for all WC connectors available on request

MACFIT

- MACFIT WC connectors are manufactured in EVA with synthetic rubber and moulded finned seals

- MACFIT incorporates a new 'lock ring' inlet seal (patent pending) to give a superior, tighter connection to the WC pan outlet

- European Patent No. 1655528

Synthetic rubber and moulded finned seals

Lock ring and synthetic rubber seal

MACFIT WC Connectors
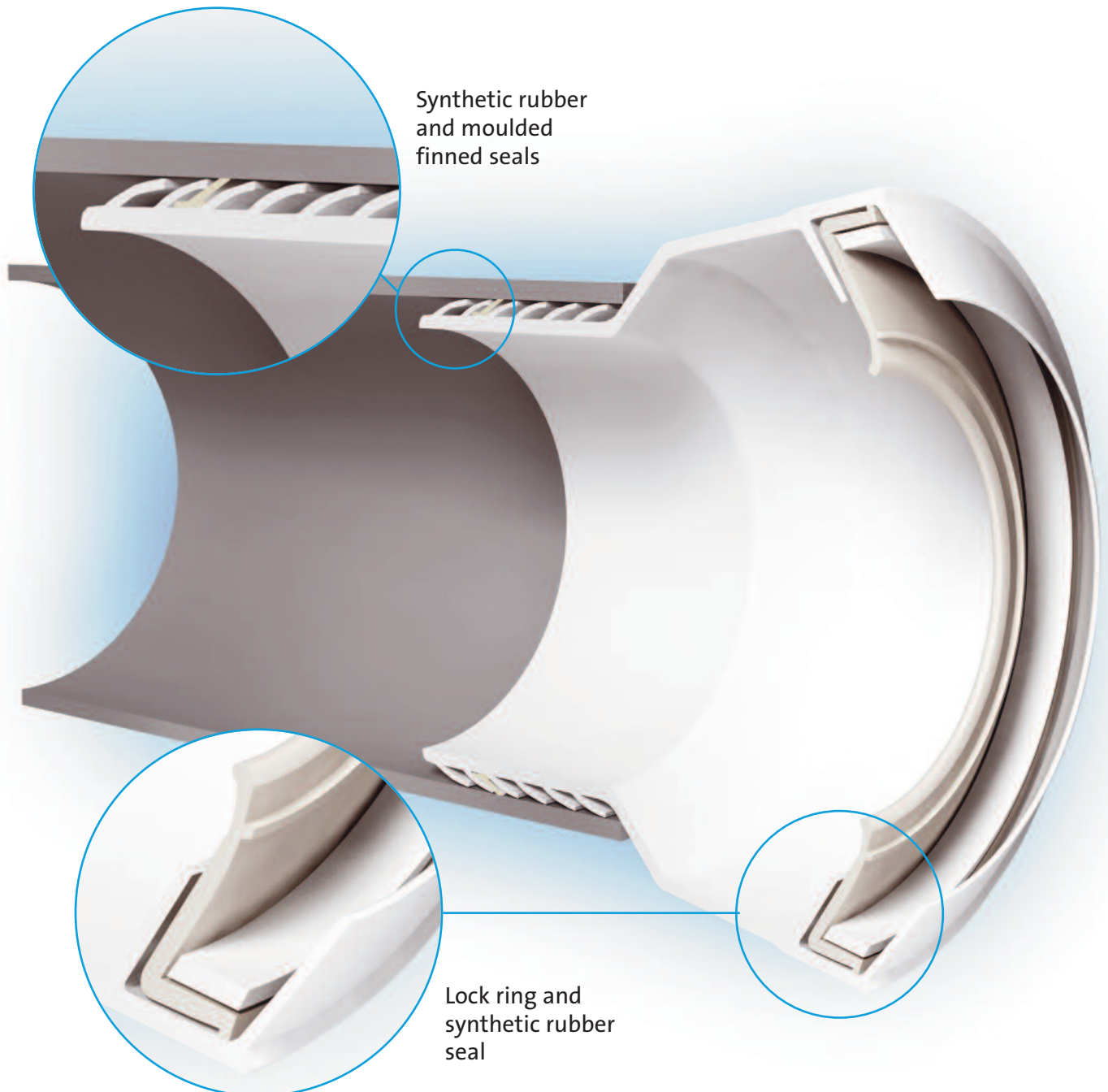
Straight
97-107mm Inlet
4"/110mm Outlet

Code   **MAC-1**

Straight
97-107mm Inlet
3½"/90mm Outlet

Code   **MAC-3**

Straight
97-107mm Inlet
3"/75mm Outlet

Code   **MAC-3C**

20mm Offset
97-107mm Inlet
4"/110mm Outlet

Code   **MAC-4**

40mm Offset
97-107mm Inlet
4"/110mm Outlet

Code   **MAC-4A**

14° Angle
97-107mm Inlet
4"/110mm Outlet

Code   **MAC-7A**

90° Bend
97-107mm Inlet
4"/110mm Outlet

Code   **MAC-8**

90° Bend (Long)
97-107mm Inlet
4"/110mm Outlet

Code   **MAC-8L**

Straight Extension
Adjustable Length
4"/110mm Outlet

Code   **MAC-EXTA**

Straight Extension
Adjustable Length
3½"/90mm Outlet

Code   **MAC-EXTB**

Straight Extension
Adjustable Length
3"/75mm Outlet

Code   **MAC-EXTC**

Linking Connector
Adjustable Length
(Polypropylene)

Code   **MACLINK**

Short Straight Connector

- Connector can be used where the soil pipe has already been installed with only the final fixing of the WC pan to be connected

- Soft synthetic rubber inlet connection secured by a worm drive hose clip provides a secure and reliable connection to the WC pan spigot

Overall length of connector 88mm
97-107mm Inlet -
4"/110mm Outlet

Code   **MAC-1-BTW**

MACFIT WC Connectors

Flexible WC Connectors

■ There is no British Standard for flexible WC connectors but MᶜAlpine connectors comply to German Standard DIN 1389:2000-05 for flexible WC connectors

■ Tested by German Testing House LGA, certificate number 572125072a and other testing houses. Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose

Closed position   Fully extended position

97-107mm Inlet 4"/110mm Outlet

Closed 170mm > Extended 410mm	Closed 140mm > Extended 290mm	Closed 100mm > Extended 160mm
WC-F26R	WC-F23R	WC-F18R

97-107mm Inlet 4"/110mm Outlet 1¼" Universal Vent Boss

180mm > 380mm	150mm > 280mm	
WC-F26RV	WC-F23RV	-
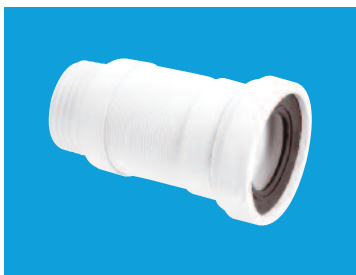
97-107mm Inlet 3½"/90mm Outlet

170mm > 410mm	140mm > 290mm	100mm > 160mm
WC-F26S	WC-F23S	WC-F18S

97-107mm Inlet 3½"/90mm Outlet 1¼" Universal Vent Boss

180mm > 380mm	150mm > 280mm	
WC-F26SV	WC-F23SV	-

Flexible WC Connectors

Closed position | Fully extended position
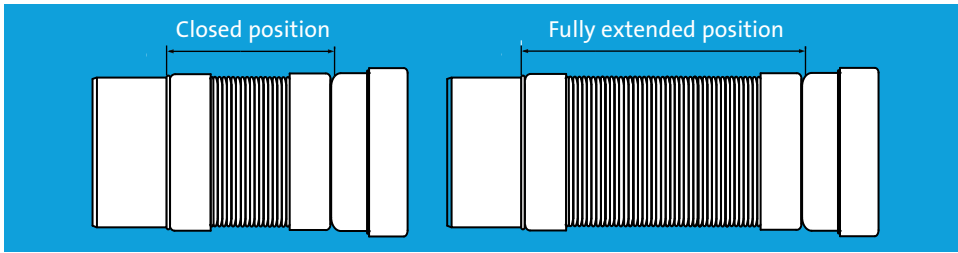
97-107mm Inlet 110mm Plain End Outlet

Closed 160mm	>	Extended 380mm	Closed 130mm	>	Extended 260mm	
WC-F26P			**WC-F23P**			-

97-107mm Inlet 110mm Plain End Outlet 1¼" Universal Vent Boss

170mm	>	380mm	140mm	>	260mm	
WC-F26PV			**WC-F23PV**			-

90° Flexible WC Connectors

97-107mm Inlet 4"/110mm Outlet

Closed 190mm	>	Extended 270mm
Code		**WC-CON8F18**

97-107mm Inlet 4"/110mm Outlet

220mm	>	400mm
Code		**WC-CON8F**

97-107mm Inlet 4"/110mm Outlet 1¼" Universal Vent Boss

220mm	>	400mm
Code		**WC-CON8FV**

Flexible Extensions for WC Connectors

110mm Inlet 4"/110mm Outlet

Closed 95mm	>	Extended 195mm
Code		**EXTA-F**

110mm Inlet 3½"/90mm Outlet

95mm	>	195mm
Code		**EXTB-F**

Flexible WC Connectors

Flexible WC Connectors for Back to Wall WC Pan

Flexible WC Connectors for Back to Wall WC Pan

- Soft synthetic rubber inlet connection secured by a worm drive hose clip provides a secure and reliable connection to the WC pan spigot prior to the final placement against wall or furniture

- There is no British Standard for flexible WC connectors but McAlpine WC connectors comply to German Standard DIN 1389:2000-05 for flexible WC connectors

- Tested by German Testing House LGA, certificate number 572125072a and other testing houses. Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose

90° Short Bend in vertical position

Closed position   Fully extended position
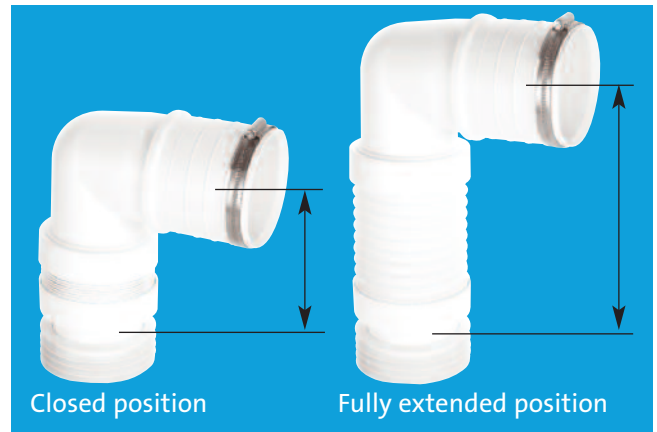
Closed 170mm   Extended 250mm

97-107mm Inlet - 4"/110mm Outlet
Code   **WC-CON8F18-BTW**

97-107mm Inlet - 3½"/90mm Outlet
Code   **WC-CON8F18-S-BTW**

90° Long Bend in horizontal position

Closed position

Fully extended position
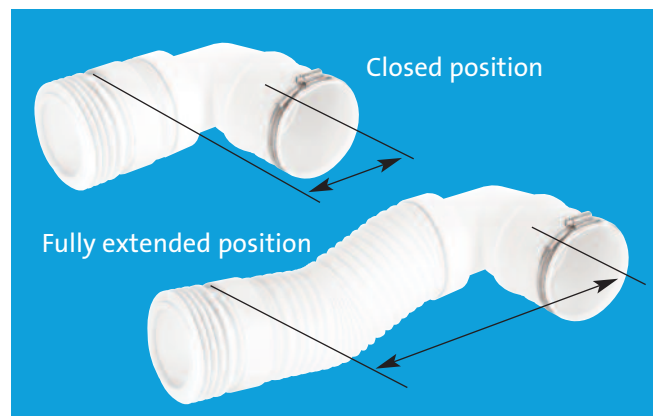
Closed 230mm   Extended 480mm

97-107mm Inlet - 4"/110mm Outlet
Code   **WC-CON8F-BTW**

97-107mm Inlet - 3½"/90mm Outlet
Code   **WC-CON8F-S-BTW**

Closed 150mm   Extended 310mm

97-107mm Inlet - 4"/110mm Outlet
Code   **WC-F21R**

97-107mm Inlet - 3½"/90mm Outlet
Code   **WC-F21S**

Patents pending

Rigid WC Connectors

■ Dimensional leaflet available on request

Straight
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON1**

Straight
with Vent Boss
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON1V**

Straight
Adjustable Length
97-107mm Inlet
4"/110mm Outlet
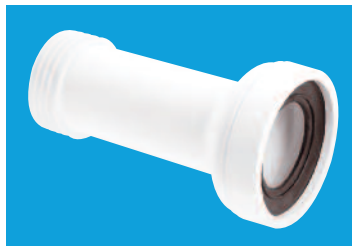
Code   **WC-CON2**

Straight
Adjustable Length
97-107mm Inlet
3½"/90mm Outlet

Code   **WC-CON2B**
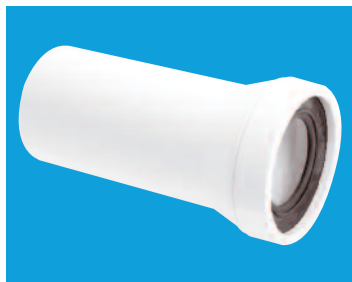
Straight
Adjustable Length
97-107mm Inlet
110mm Plain End
Outlet

Code   **WC-CON3**

20mm Offset
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON4**

40mm Offset
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON4A**

40mm Offset
97-107mm Inlet
110mm Plain End
Outlet

Code   **WC-CON4B**

20mm Offset
Adjustable Length
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON5**

20mm Offset
Adjustable Length
97-107mm Inlet
3½"/90mm Outlet

Code   **WC-CON5B**
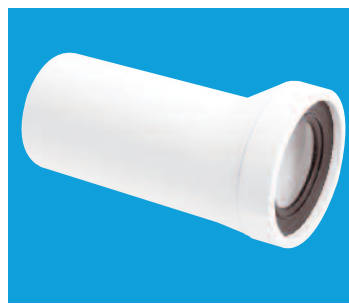
10mm Offset
Adjustable Length
97-107mm Inlet
110mm Plain End
Outlet

Code   **WC-CON6**

14° Angle
Adjustable Length
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON7**

14° Angle
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON7A**

14° Angle
Adjustable Length
97-107mm Inlet
3½"/90mm Outlet

Code   **WC-CON7B**

45° Angle
97-107mm Inlet
4"/110mm Outlet

Code   **WC-CON16**

Rigid WC Connectors

Rigid WC Connectors

90° Bend Adjustable Length 97-107mm Inlet 4"/110mm Outlet

Code   **WC-CON8**

90° Space Saving Bend Adjustable Length 97-107mm Inlet 4"/110mm Outlet

Code   **WC-CONQ**

90° Bend Adjustable Length with Vent Boss 97-107mm Inlet 4"/110mm Outlet

Code   **WC-CON8V**

90° Space Saving Bend Adjustable Length 97-107mm Inlet 110mm Plain End Outlet

Code   **WC-CONQP**

90° Bend Adjustable Length Extended Inlet 97-107mm Inlet 4"/110mm Outlet

Code   **WC-CON8E**

Extension Pieces

Straight Extension Adjustable Length 4"/110mm Outlet

Code   **WC-EXTA**

90° Bend Adjustable Length 97-107mm Inlet 110mm Plain End Outlet

Code   **WC-CON9**

Straight Extension Adjustable Length 3½"/90mm Outlet

Code   **WC-EXTB**

10mm Offset Extension Adjustable Length 4"/110mm Outlet

Code   **WC-EXTC**

90° Bend Adjustable Length with Vent Boss 97-107mm Inlet 110mm Plain End Outlet

Code   **WC-CON9V**

10mm Offset Extension Adjustable Length 3½"/90mm Outlet

Code   **WC-EXTD**

Straight Telescopic WC Socket Extension

- Short telescopic socket extension connector to fit the socket of any MACFIT, Rigid or Flexible WC connector

- Can extend a WC connector already installed and requiring alteration before final placement to the WC pan

- Provides adjustment to the required length where soil pipe already installed

Overall length of telescopic socket extension piece 133mm

Code **WC-CON-EXT**

WC Connector Accessories

Boss Pipe for use with WC Connectors

- Finned seal spigot for internal connection to cast iron, plastic or clay 4"/110mm pipe

- Ideal for low level connections

3½"/90mm x 4"/110mm Connector with 'O' seal socket to fit any MᶜAlpine rigid or flexible WC connector with 4"/110mm rubber outlet seal when rubber seal is removed. With 1½" universal pipe boss including blanking cap. *As illustrated opposite with WC-CON8 **(cut down to required length)***

Code **WC-BP1**

Rigid WC Connectors and WC Connector Accessories

WC Connector Accessories

Anti Cross-Flow and Rodent Barrier Valve

- Will prevent cross-flow if fitted to WC pans that are installed back to back

- For use where special measures are necessary for control of rodents as recommended in Approved Document H1 The Building Regulations 2000 (2002 edition)

- Manufactured in black polypropylene to prevent light penetration

- Deters rodents from entering building through WC

- For use with any MᶜAlpine rigid or flexible WC connector with 4"/110mm rubber outlet seal

- Can be installed in horizontal or vertical position

Open position	Closed position

Code	**ARB-1**

WC Connector Wall Flange
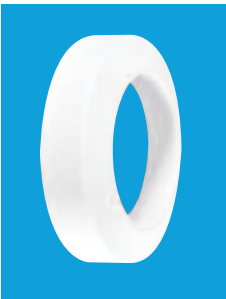
To fit over Rigid WC Connector with 4"/110mm Rubber Seal Outlet	
Code	**WC17-90**
To fit over 4"/110mm Soil Pipe or Rigid WC Connectors with Plain End Outlet	
Code	**WC17-110**
To fit over Collar of Flexible WC Connector	
Code	**WC17-114**

WC Frame Connector Kit

WC Frame Connector Kit comprises WC connector with 90mm end, 110mm outlet seal, flush pipe with finned seal connector and fixing bolts and caps. Suitable for in-wall WC frames

Code	**FPKIT-3**

WC Connector Accessories

Air Admittance Valves (Ventapipe)
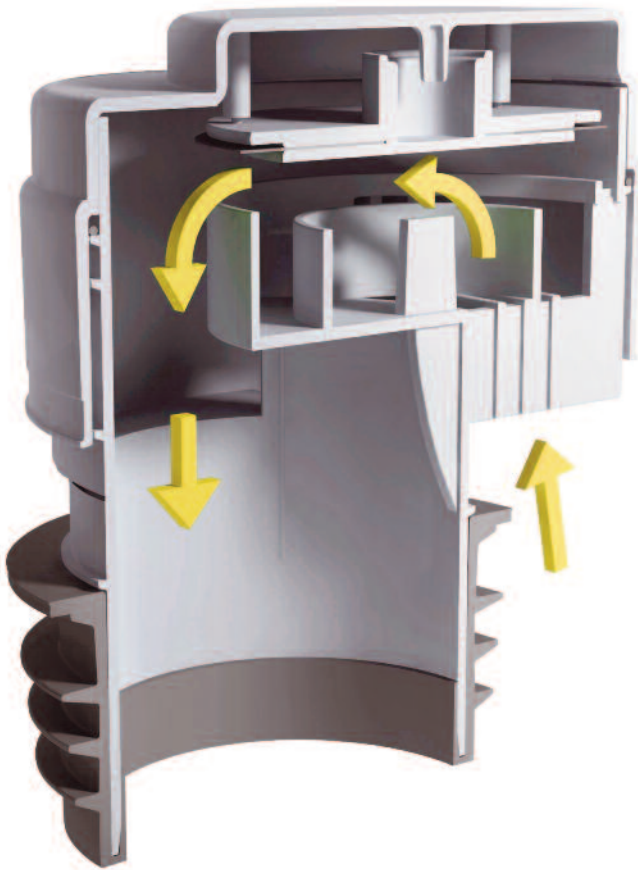
Valve open
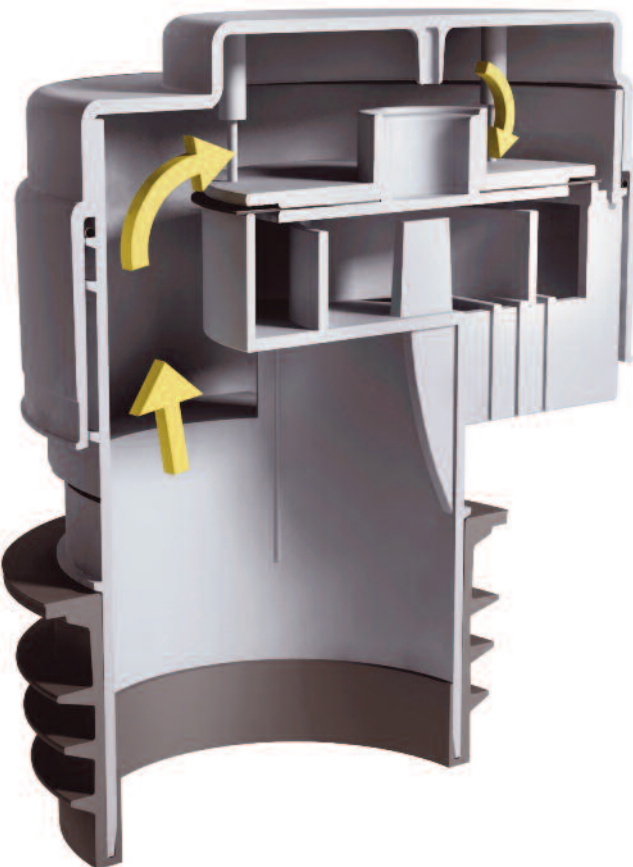
Valve closed   Code **VP100**

Ventapipe 100 and Ventapipe 50 Application

Ventapipe 100 and Ventapipe 50 Air Admittance Valves are for use in above ground drainage systems. They are designed to:

■ Provide a means of ventilation to the drainage system under conditions of reduced pressure when ventilating pipes are terminated inside buildings in accordance with BS EN 12056-2:2000

Operation

The two diagrams illustrate how Ventapipe functions. The valve diaphragm lifts and allows air to be drawn into the system when it is subjected to negative pressure. On cessation of negative pressure the diaphragm returns to the closed position thereby preventing the escape of foul air into the building.

The valve is designed to open and close spontaneously when required thereby allowing a supply of air to adequately ventilate the system thus ensuring a smooth discharge.

Approval

Approved Document H of The Building Regulations 2000 (2002 edition) requires that air admittance valves comply with BS EN 12380:2002.

All McAlpine Ventapipe air admittance valves listed have been independently tested by the LGA Testing House and certified as being compliant with BS EN 12380:2002 and designated as Class A1.

This means that Ventapipe can be installed:

■ Above or below the flood level of connected appliances

■ Ventapipe has an operating temperature range of -20ºC to + 60ºC

■ Ventapipe was granted A1 classification without the necessity of a polystyrene cover

■ Ventapipe has been tested at -250 Pa for their air flow capacity and the flow rate is stated alongside each valve listed

Quality Certificate

The LGA Quality Certificate certifies a product's high and consistent quality. It confirms the performance capability (functional characteristics, wear and tear and service life) of a product and therefore its comprehensive quality. Annual production inspections ensure its consistent quality. Whenever the LGA Quality Certificate is on a product it ensures it has been thoroughly tested.

Advantages

- Ventapipe enables ventilating pipes to be terminated inside the building thereby avoiding roof penetration

- Ventapipe allows greater flexibility in design of new drainage systems

- Ventapipe allows greater flexibility when installing additional appliances to existing drainage systems

- Ventapipe eliminates problems of freezing associated with external pipes

- Ventapipe is suitable for use with either plastic or metal pipes

- Ventapipe offers cost savings in both material and labour

Information for General Guidance only

- Underground foul drainage should be ventilated by a flow of air. A ventilating pipe should be provided at or near the head of each main drain

- An open ventilating pipe, without an air admittance valve, should be provided on any drain fitted with an intercepting trap, particularly on a sealed system and on any drain subject to surcharge

- Air admittance valves should not be used when the soil stack provides the only ventilation to septic tanks or cesspools

- Air admittance valves should not be used where there is no open ventilation on a drainage system or through connected drains and therefore alternative arrangements to relieve positive pressures should be considered

- Air admittance valves should not be used outside buildings or in dust laden atmospheres. They should be located preferably in a non-habitable space, such as a duct or roof. The space should have adequate ventilation and be accessible for maintenance

- Air admittance valves should be removable to give access for clearance of blockages

- Air admittance valves can indicate the probability of blockages within the drainage system. This can be indicated by high water levels in WC bowls following flushing and the slow draining of appliances upstream from the blockage

- Sizes and limitations upon the use of air admittance valves are subject to national and local regulations and practice. If further detail is required check with the local authority building control office

- Kinetic ram guns should not be used to shift blockages on installations where air admittance valves are fitted as undue pressure and blowback may cause malfunction

Ventapipe 15, 25, 40 and 50 Application

VP15, 25, 40 and 50 air admittance valves can be used as alternatives to anti-syphon and resealing traps to ventilate the waste pipe system in order to overcome problems such as noisy discharge or loss of trap seal caused by induced or self-syphonage. They are particularly advantageous when installing additional appliances to existing waste pipe(s).

Code **VP100**

Air Admittance Valves (Ventapipe)

Air Admittance Valves (Ventapipe)

Code	Class	Air Flow Capacity (Litres per second)	Colour

Ventapipe 100 with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe
4"/110mm pipe - push over rubber seal
3"/75mm pipe - push into rubber seal

Code	Class	Air Flow Capacity	Colour
VP100	A1	47.2	Grey

Ventapipe 100 with solvent weld outlet for 4"/110mm pipe

Code	Class	Air Flow Capacity	Colour
VP100N	A1	19.4	Grey

Ventapipe 50 with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe. Also incorporates 2" universal compression outlet
4"/110mm pipe - push over rubber seal
3"/75mm pipe - push into rubber seal

Code	Class	Air Flow Capacity	Colour
VP50-100	A1	16.3	Grey

Ventapipe 50 with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe
4"/110mm pipe - push over rubber seal
3"/75mm pipe - push into rubber seal

Code	Class	Air Flow Capacity	Colour
VP50P	A1	15.5	Grey

Ventapipe 50 with 2" universal compression outlet

Code	Class	Air Flow Capacity	Colour
VP50	A1	14.2	Grey

Ventapipe 40/50 solvent weld outlet for 1¼", 1½" or 2"
BS EN 1329-1:2000 solvent weld waste pipe

Code	Class	Air Flow Capacity	Colour
VPSF-40/50	A1	9.1	White

Code	Class	Air Flow Capacity (Litres per second)	Colour

Ventapipe 25 with 1½" BSP thread on outlet

| VP1 | A1 | 3.0 | Grey |
| VP1W | A1 | 3.0 | White |

Ventapipe 25 with 1½" universal compression outlet

| VP2 | A1 | 3.0 | Grey |
| VP2W | A1 | 3.0 | White |

Ventapipe 25 with integral 1½" Multifit tee

| VP3 | - | 4.5 | White |

Ventapipe 25 with integral 1¼" Multifit tee

| VP4 | - | 2.0 | White |

Ventapipe 15 with 1¼" universal compression outlet

| VP15M | - | 0.5 | Grey |

Air Admittance Valves (Ventapipe)

Air Admittance Valves (Ventapipe)

Internal/External Air Admittance Valve for 110mm Soil Pipe

- Incorporates a stainless steel mesh in the air intake which eliminates insect and debris ingress
- Complies with BS EN 12380:2002
- Designation Class A1
- Air Flow Capacity (litres per second) 40

- Range of temperature: -20°C to +60°C
- Can be installed above or below the flood level of connecting appliances
- LGA Quality Certificate - certifies the product's high and constant quality and confirms the performance capability

Code	Class	Air Flow Capacity (Litres per second)	Colour
Ventapipe 100 with dual-fit synthetic rubber finger seal outlet for 4"/110mm pipe			
VP100E	A1	40	Black

Internal Air Admittance Valve

McAlpine recommends that Air Admittance Valves be installed internally within the building.

AAVs should be located preferably in a non-habitable space such as a duct or roof space with adequate ventilation and must be accessible for maintenance.

AAVs must be installed in the vertical position.

Internal Advantages

- Enables ventilating pipes to be terminated inside the building thereby avoiding roof penetration
- Allows greater flexibility in design of new drainage systems
- Allows greater flexibility when installing additional appliances to existing drainage systems
- Eliminates problems of freezing associated with external pipes
- Suitable for use with either plastic or metal pipes
- Offers cost savings in both material and labour

External Air Admittance Valve

Although there are no regulations for an AAV to be installed externally, it may be advantageous in certain circumstances, be it design or otherwise, to allow installation into an external soil stack and some of the advantages are as follows:

External Advantages

- The external soil stack may be terminated below the roofline which reduces the amount of soil pipe and fittings required
- The AAV may be installed at a minimum height of 200mm above the highest wet branch connection
- Fitted externally the AAV is easy to access for maintenance if required
- Reduces installation time and materials
- It may be prudent to seek guidance from the local building department

Valve open
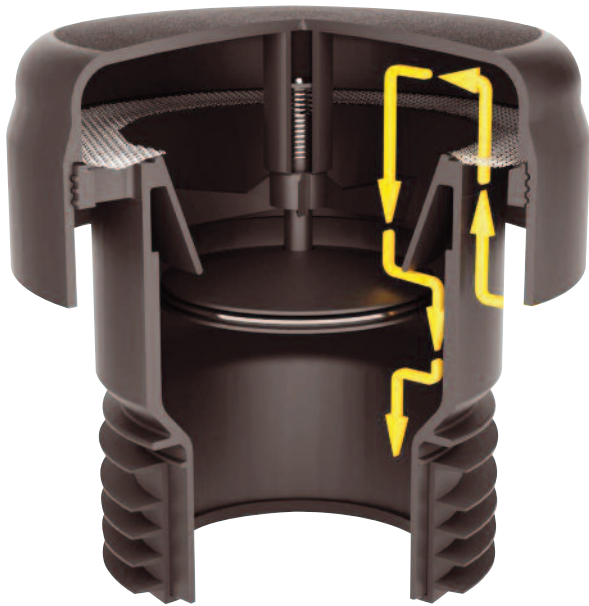
Valve closed
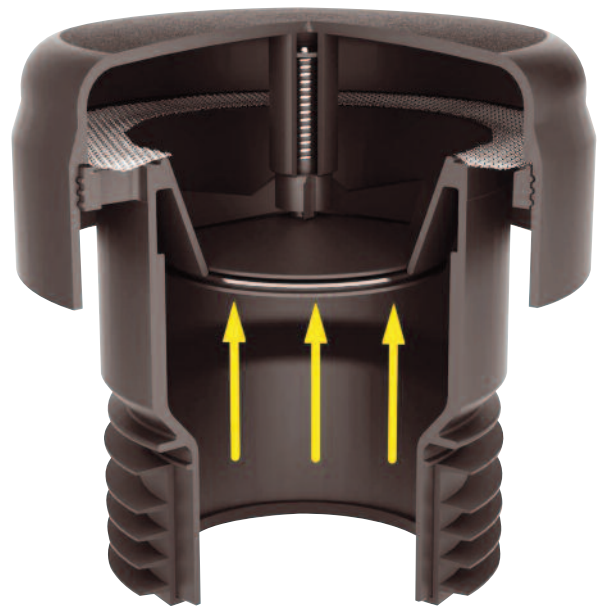
Operation

The two diagrams illustrate how Ventapipe functions. The valve diaphragm lifts and allows air to be drawn into the system when it is subjected to negative pressure. On cessation of negative pressure the diaphragm returns to the closed position thereby preventing the escape of foul air into the building.

The valve is designed to open and close spontaneously when required thereby allowing a supply of air to adequately ventilate the system thus ensuring a smooth discharge.

Air Admittance Valves (Ventapipe)

Installation Guidelines

Illustrations from BS EN 12056-2:2000 Gravity Drainage Systems Inside Buildings to demonstrate installation variations for Air Admittance Valves

Primary Ventilated System Configuration
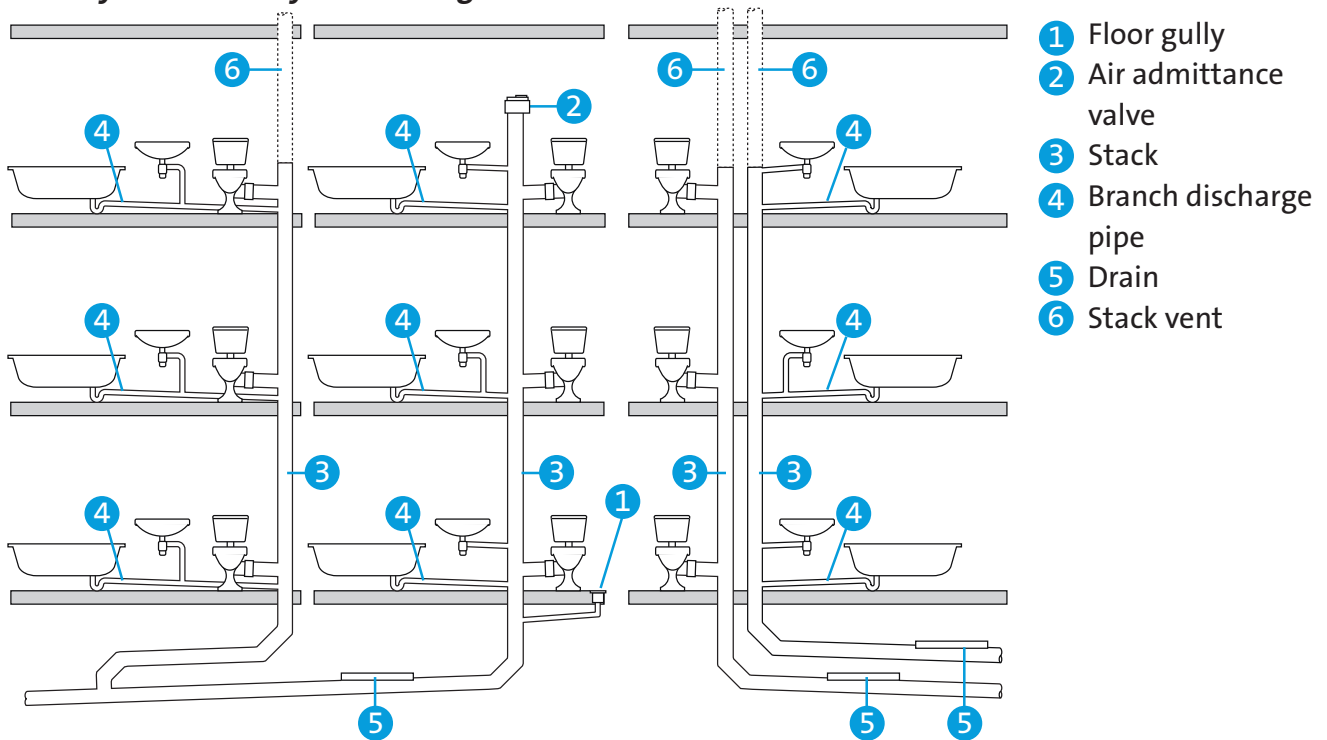
1. Floor gully
2. Air admittance valve
3. Stack
4. Branch discharge pipe
5. Drain
6. Stack vent

Secondary Ventilated System Configuration
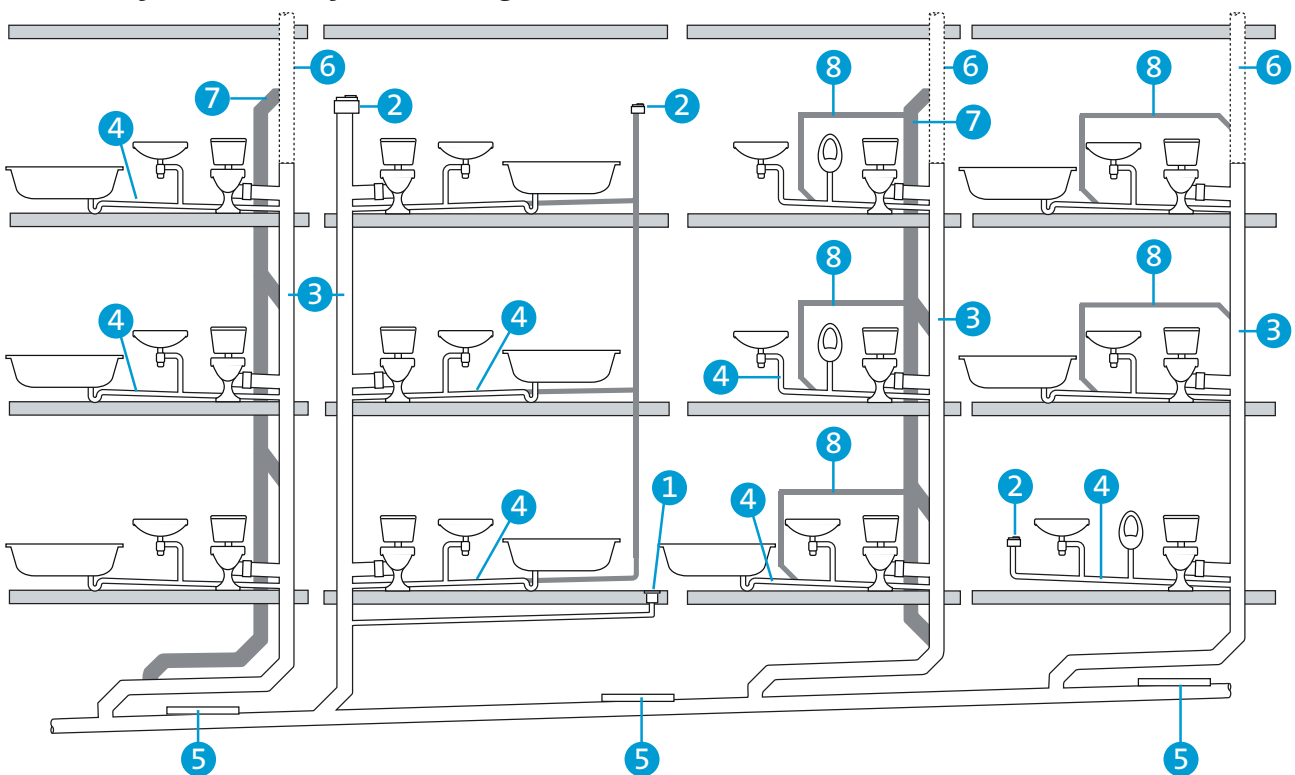
1. Floor gully
2. Air admittance valve
3. Stack
4. Branch discharge pipe
5. Drain
6. Stack vent
7. Ventilating stack
8. Branch ventilating pipe

Control of pressure in the discharge stack is achieved by use of separate ventilating stacks and/or secondary branch ventilating pipes in connection with stack vents.

Alternatively, air admittance valves may be used.

Installation Guidelines

Waste Outlet Fittings, Waste Accessories and Handipak

McALPINE
Plumbing Products

Waste Outlet Fittings

General

- Waste outlets are moulded in polypropylene unless otherwise stated
- Centre pin models are supplied with dry fixing washers and backnut models are supplied with backnuts and washers
- Centre pin and backnut models are supplied with PVC plugs unless otherwise stated
- Waste outlets incorporating an overflow are supplied with flexible tube with an OD of 25mm unless otherwise stated
- All chains are supplied with two triangles

Chrome Plated Brass Basin Wastes with Chrome Plated Brass Backnuts

Backnut Model 1¼" x 60mm flange x 3½" slotted tail with spring-loaded mushroom plug

Code	**CW60-CB**

Backnut Model 1¼" x 60mm flange x 3½" slotted tail with swivel plug

Code	**CW60SP-CB**
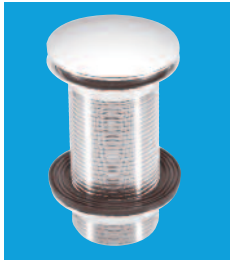
Backnut Model 1¼" x 60mm flange x 3½" unslotted tail with spring-loaded mushroom plug

Code	**CWU60-CB**
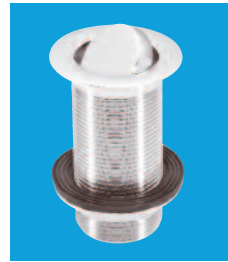
Backnut Model 1¼" x 60mm flange x 3½" unslotted tail with swivel plug

Code	**CWU60SP-CB**

Backnut Model 1¼" x 60mm flange x 3½" unslotted tail, free flowing (open) with mushroom cover plate

Code	**DWU60-CB**

Backnut Model 1¼" x 60mm flange x 3½" slotted tail with swivel handle plug

Code	**BW60SPH-CB**

Backnut Model 1¼" x 60mm flange x 3½" slotted tail with square spring-loaded plug

Code	**CW60SQ-CB**

Backnut Model 1¼" x 60mm flange x 3½" unslotted tail with swivel handle plug

Code	**BWU60SPH-CB**
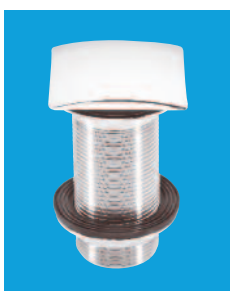
Backnut Model 1¼" x 60mm flange x 3½" unslotted tail with square spring-loaded plug

Code	**CWU60SQ-CB**

Extended Backnut 1¼" x 55mm tail: threaded shroud and extension piece

Code	**GWAL-CB**

Basin Waste Outlets

Centre Pin Basin Wastes - Multi Function with Stainless Steel Flange and Plug

- Centre pin dry fixing connection for a quick and simple installation
- Suitable for basins with or without overflow
- Polished stainless steel mushroom plug
- CP brass or white plastic waste body
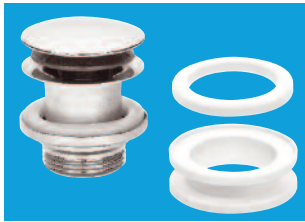
Centre Pin Model	Code
1¼" x 60mm polished stainless steel flange with spring-loaded mushroom plug - CP brass body	**CWP60-SS**
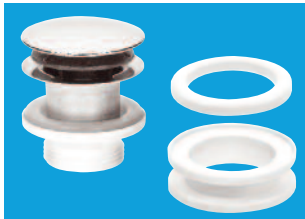
Centre Pin Model	Code
1¼" x 60mm polished stainless steel flange with spring-loaded mushroom plug - white plastic body	**CWP60-SSP**

Centre Pin Basin Wastes - Stainless Steel Flange

- The centre pin dry fixing connection has the advantage of a quick, simple and neat installation and affords a saving in material and labour costs. Additionally the polished stainless steel flange eliminates the problem of chrome plating deterioration

Centre Pin Model	Code
1¼" x 60mm flange with plug	**BSW1P**
1¼" x 60mm flange, plug with CP chain and stay	**BSW1PC**
1½" x 60mm flange with plug	**BSW2P**
1½" x 60mm flange, plug with CP chain and stay	**BSW2PC**

Centre Pin Model with backnut and washer for basin bracket if required	Code
1¼" x 60mm flange with plug	**BSW11P**
1¼" x 60mm flange, plug with CP chain and stay	**BSW11PC**

Backnut Basin Wastes - Chrome Plated Plastic
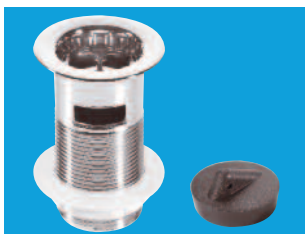
Backnut Model	Code
1¼" x 60mm flange x 3½" slotted tail with plug	**BW1**
1¼" x 60mm flange x 3½" unslotted tail with plug	**BW1A**

Backnut Model	Code
1¼" x 60mm flange x 3½" slotted tail with CP plug	**CW1**

Basin Waste Outlets

Basin Waste Outlets

Backnut Basin Wastes

Stainless steel flange - white plastic body

	Code
1¼" x 60mm flange x 3½" slotted tail with plug	**BSW1**
1¼" x 60mm flange x 3½" unslotted tail with plug	**BSW2**

Stainless steel flange - black plastic body

1¼" x 60mm flange x 3½" slotted tail with plug	**BSW12**
1¼" x 60mm flange x 3½" slotted tail, plug with triangle	**BSW12T**
1¼" x 60mm flange x 3½" slotted tail, plug with CP chain and stay	**BSW12C**

White plastic

1¼" x 60mm flange x 3½" slotted tail with plug	**W1**
1¼" x 60mm flange x 3½" unslotted tail with plug	**W1A**

Combined Wastes and Overflows for Vanity Basin

Centre Pin Models - stainless steel flange

Banjo Model - white plastic

1¼" x 60mm flange, CP overflow grid, plug and CP chain

Code **FVW1P***

1¼" x 60mm flange, CP overflow grid, plug and CP chain

Code **FVW1PC**

1¼" x 60mm flange x 3½" tail, plug and CP chain

Code **FVW1PW**

* Nut and bolt overflow connection and compression connection to flexible tube

Bath Waste Outlets

Bath Wastes

Backnut Model CP brass 1½" x 70mm flange x 44mm tail with spring-loaded mushroom plug

| Code | **CBW70-CB** |

Backnut Model 1½" x 70mm CP brass flange x 58mm tail with spring-loaded mushroom plug

| Code | **CBW70-CLK** |

Centre Pin Model 1½" x 70mm CP brass flange x 60mm tail with spring-loaded mushroom plug

| Code | **CWS70-CB** |

Combined Waste and Overflow Centre Pin Model 1½" x 70mm CP brass flange x 60mm tail with spring-loaded mushroom plug and matching overflow cover plate

| Code | **CBWF70CB** |

Backnut Model 1½" x 70mm CP brass flange x 58mm tail with swivel plug

| Code | **CBW70-SW** |

Centre Pin Bath Wastes - Stainless Steel Flange

Centre Pin Model

1¼" x 70mm flange with plug
| Code | **BSW9P** |

1¼" x 70mm flange with plug and CP chain
| Code | **BSW9PC** |

1½" x 70mm flange with plug
| Code | **BSW10P** |

1½" x 70mm flange with plug and CP chain
| Code | **BSW10PC** |

1½" x 70mm flange with plug
| Code | **BSW15P** |

1½" x 70mm flange with plug and CP chain
| Code | **BSW15PC** |

Backnut Bath Wastes

Backnut Model - stainless steel flange

1½" x 70mm flange x 1½" unslotted tail with plug
| Code | **BSW10** |

Backnut Model - chrome plated plastic

1½" x 70mm flange x 1½" unslotted tail with plug
| Code | **BW5** |

1½" x 70mm flange x 1½" unslotted tail with CP plug
| Code | **CW5** |

Backnut Model - white plastic

1¼" x 70mm flange x 1½" unslotted tail with plug
| Code | **W4** |

1½" x 70mm flange x 1½" unslotted tail with plug
| Code | **W5** |

■ All the above waste outlet fittings are suitable for use with traps listed on pages 18-19

Bath Waste Outlets

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Pop-Up Bath Wastes and Overflows

Pop-Up Bath Wastes and Overflows, Centre Pin Models - Stainless Steel Flange

1½" x 70mm flange with CP brass overflow/command knob

Code **PUB-CPB**

1½" x 70mm flange with CP plastic overflow/command knob

Code **PUB-CP**

1½" x 70mm CP flange and mushroom plug with CP brass overflow/command knob

Code **PUB-CPX**

1½" x 70mm colour matched white plastic flange and overflow/command knob
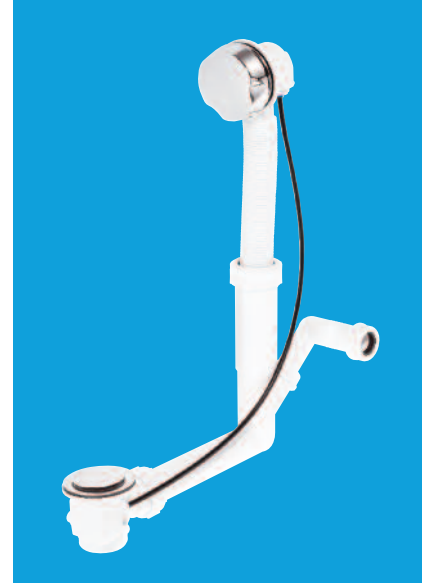
Code **PUB-WH**

1½" x 70mm CP stainless steel flange, CP brass control knob and mushroom plug. Side inlet connection for 19/23mm condensate or condense drain

Code **PUBX-SP**

- The CBWF70-CB and all pop-up bath wastes have 34mm diameter overflow tubes

Push Button Bath Pop-Up Waste with Trap and Overflow

- CP brass overflow with push button action to operate CP brass mushroom plug
- 1½" x 50mm water seal trap with Multifit outlet
- Overall height of trap 110mm
- Cable and overflow length 575mm, 700mm and 1m
- Compression overflow connection to trap

Code	**PUB-PB-575**
Code	**PUB-PB-700**
Code	**PUB-PB-1M**

Combined Wastes and Overflows

Code **FBW2P**   Code **FBW2PC**
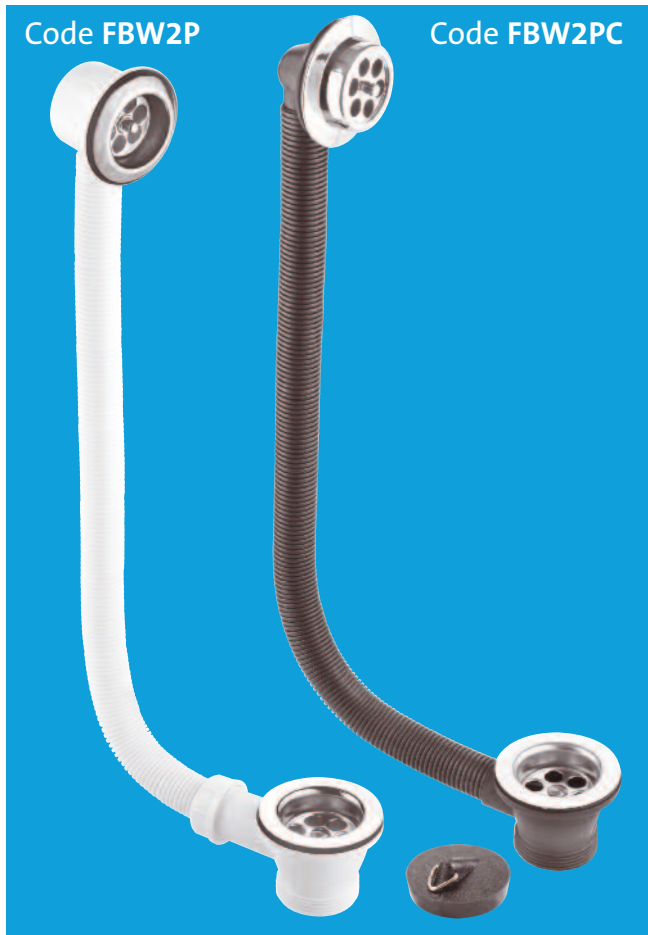
Centre Pin Model - stainless steel flange

	Code
1¼" x 70mm flange, SS overflow grating, plug and CP chain	**FBW1P***
1½" x 70mm flange, SS overflow grating, plug and CP chain	**FBW2P***

* Nut and bolt overflow connection and compression connection to flexible tube

1¼" x 70mm flange, CP overflow grating, plug and CP chain	**FBW1PC**
1½" x 70mm flange, CP overflow grating, plug and CP chain	**FBW2PC**

Code **FBW2R-C**   Code **FBW2PW**
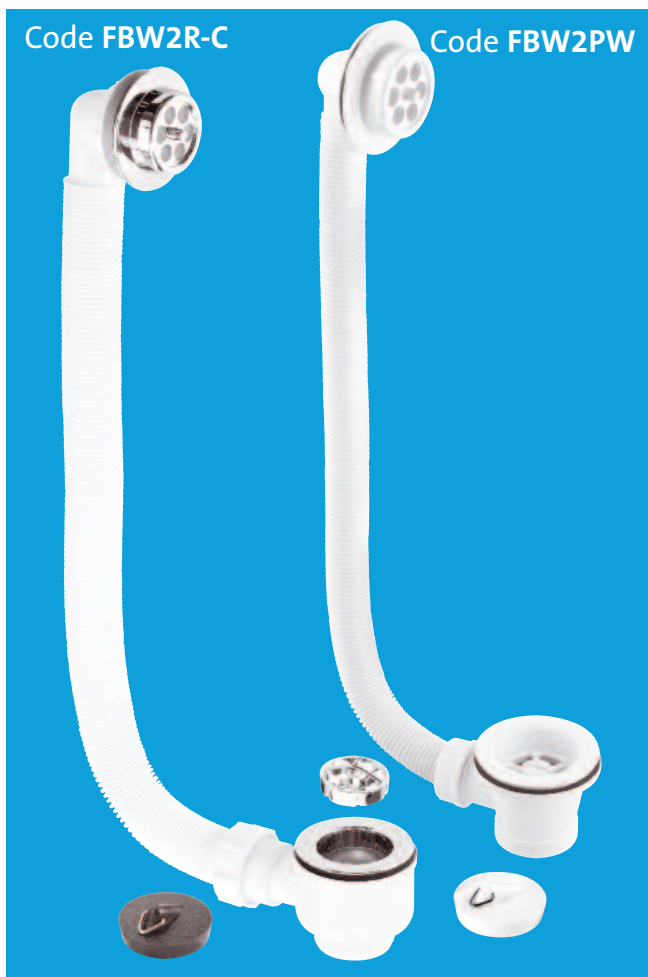
Combined Wastes and Overflows with removable Grid for cleaning

1½" x 70mm CP plastic flange, CP overflow grating and 34mm diameter overflow tube, plug and CP chain	**FBW2R-C**
1½" x 70mm white plastic flange and 34mm diameter overflow tube, plug and CP chain	**FBW2R-W**

Centre Pin Model

1½" x 70mm white plastic waste and overflow, plug and CP chain	**FBW2PW**

■ All the above waste outlet fittings are suitable for use with traps listed on page 18

Sink Waste Outlets

Centre Pin Sink Wastes - Stainless Steel Flange

Centre Pin Model

	Code
1¼" x 85mm flange with plug	**BSW3P**
1¼" x 85mm flange, plug with CP chain and stay	**BSW3PC**
1½" x 85mm flange with plug	**BSW6P**
1½" x 85mm flange, plug with CP chain and stay	**BSW6PC**

Centre Pin Model

1½" x 85mm flange with black PVC handle plug	**BSW6PR**

Centre Pin Model

1½" x 70mm flange with black PVC handle plug	**BSW10PR**

Centre Pin Model

2" x 85mm flange with plug	**BSW21P**
2" x 85mm flange, plug with CP chain and stay	**BSW21PC**

Centre Pin Model
Waste for Belfast Sink

1½" x 85mm flange with CP handle plug	**BSW6CP2H**

Centre Pin Model
Reducer Waste

1½" x 113mm flange with black ABS handle plug	**SW45P**
1½" x 113mm flange, plug with CP chain and stay	**BSW45P**

Backnut Sink Waste

Backnut Model - white plastic

1½" x 85mm flange x 3½" unslotted tail with plug	**W3**

Centre Pin Model - stainless steel flange

	Code
1¼" x 85mm flange, CP overflow grid, plug and CP chain	**FSW1PC**
1½" x 85mm flange, CP overflow grid, plug and CP chain	**FSW2PC**
1½" x 70mm flange, CP overflow grid, plug and CP chain	**FSW2PC-70**

Centre Pin Model - stainless steel flange

1¼" x 85mm flange, black overflow grid, plug and CP chain	**FSW1PP**
1½" x 85mm flange, black overflow grid, plug and CP chain	**FSW2PP**
1½" x 70mm flange, black overflow grid, plug and CP chain	**FSW2PP-70**

Centre Pin Model - stainless steel flange

1½" x 85mm flange, rectangular overflow (no overflow grid), plug with CP chain and stay, supplied with reversible dual purpose overflow washer for curved or flat sink bowl	**FSW2PR**
1½" x 70mm flange, rectangular overflow (no overflow grid), plug with CP chain and stay, supplied with reversible dual purpose overflow washer for curved or flat sink bowl	**FSW2PR-70**

Centre Pin Model - stainless steel flange

1¼" x 85mm flange, CP overflow grid, plug with CP chain and stay	**FSW1P***
1½" x 85mm flange, CP overflow grid, plug with CP chain and stay	**FSW2P***

* Nut and bolt overflow connection and compression connection to flexible tube

Reducer Waste and Overflow
Centre Pin Model - stainless steel flange

1½" x 113mm flange, CP overflow grid, plug and CP chain	**FSW45P**

Basket Strainer Wastes

Basket Strainer Wastes

Centre Pin Model - stainless steel flange
Stemball plug

	Code
1½" x 113mm flange	**BWSTSS**
1½" x 113mm flange, PVD finish (gold)	**BSWPVD**

Centre Pin Model - stainless steel flange
Spring-Loaded plug

1½" x 113mm flange	**BSWCLS**

Backnut Model - chrome plated brass
Spring-Loaded plug

1½" x 113mm flange	**BSW-BR-CP**

Basket Strainer Waste and Overflow
Centre Pin Model - stainless steel flange
Stemball plug

1½" x 113mm flange, rectangular overflow, (no overflow grid)	**BWSTOFRS**
1½" x 113mm flange with CP overflow grid	**BWSTOFSS**
1½" x 113mm flange, overflow grid, PVD finish (gold)	**FBSWPVD**

Centre Pin Model - stainless steel flange
Spring-Loaded plug

1½" x 113mm flange with CP overflow grid	**BSWCLS-OFSS**

Mini Basket Strainer Waste
Centre Pin Model - stainless steel flange
Stemball plug

1½" x 85mm flange	**MBSWSS85**
1½" x 85mm flange, PVD finish (gold)	**MBS85PVD**

Mini Basket Strainer Waste and Overflow
Centre Pin Model - stainless steel flange
Stemball plug

1½" x 85mm flange with CP overflow grid	**FMBSWSS85**

■ Basket strainer wastes are supplied with a 41mm long fixing ferrule and mini basket strainer wastes with a 55mm long fixing ferrule. Longer fixing ferrules available as follows: 70mm long Code: BRBOLT70 and 90mm long Code: BRBOLT90

Basket Strainer Wastes - Plugs

**Stainless Steel Strainer plug
for Basket Strainer Waste**
stemball model

Code	**BWSTSS-TOP**

**Stainless Steel Strainer plug
for Basket Strainer Waste**
with rubber finger seal
connection

Code	**BSKTOP**

Pop-Up Sink Wastes

**Pop-Up Wastes and Overflows
Centre Pin Model** - stainless steel flange

	Code
1½" x 70mm flange with CP plastic command knob	**PUS70-CP**
1½" x 70mm flange, flexible overflow, CP plastic grid and command knob	**PUFS70-CP**

**Pop-Up Basket Strainer Wastes and Overflows
Centre Pin Model** - stainless steel flange

1½" x 113mm flange basket strainer waste with CP plastic command knob	**PUS113-CP**
1½" x 113mm flange basket strainer waste, flexible overflow, CP plastic grid and command knob	**PUFS113-CP**

Basket Strainer Wastes and Pop-Up Sink Wastes

Shower Waste Outlets

Centre Pin Shower Wastes - Stainless Steel Flange

Centre Pin Model - stainless steel flange

	Code
1¼" x 70mm flange	**BSW9P-F**
1½" x 70mm flange	**BSW10P-F**

Backnut Wastes
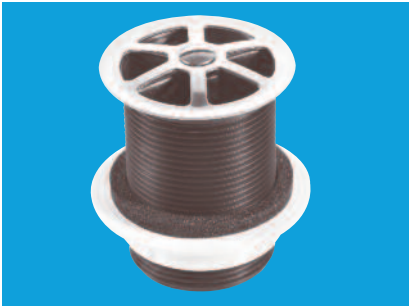
Backnut Model - stainless steel flange

1½" x 60mm flange x 70mm tail	**CSWU3P**

Backnut Model - CP plastic

1½" x 70mm flange x 1½" tail	**CWS5**

Backnut Model - white plastic

1½" x 70mm flange x 1½" tail	**WS5**

Backnut Model - white plastic

1½" x 85mm flange x 3½" tail	**WS3**

High-Flow Shower Waste - Top Access
Backnut Model - white plastic

1½" x 113mm flange x 2⅜" tail	**SWHF1-WH**
2" x 113mm flange x 2⅜" tail	**SWHF2-WH**

High-Flow Shower Waste - Top Access Backnut Model - standard cover flange

	Code
1½" x 113mm flange x 2⅜" white plastic flange	**SWHF3-WH**
1½" x 113mm flange x 2⅜" CP plastic flange	**SWHF3-CP**
2" x 113mm flange x 2⅜" white plastic flange	**SWHF4-WH**
2" x 113mm flange x 2⅜" CP plastic flange	**SWHF4-CP**

Code **SWHF3-CP**

High-Flow Shower Waste - Top Access Backnut Model - plain cover flange

	Code
1½" x 113mm flange x 2⅜" white plastic flange	**SWHF5-WH**
1½" x 113mm flange x 2⅜" CP plastic flange	**SWHF5-CP**
2" x 113mm flange x 2⅜" white plastic flange	**SWHF6-WH**
2" x 113mm flange x 2⅜" CP plastic flange	**SWHF6-CP**

Code **SWHF6-WH**

Code **BSW10P-F**

Code **CSWU3P**

Code **CWS5**

Shower Waste Outlets

Pumped Shower Waste Outlets

Untrapped Shower Wastes with Top Access

■ For use with pumped waste where normal gravity discharge is not possible

Centre Pin Model - 70mm polished stainless steel flange with plastic strainer grid and 15mm 'O' ring pushfit outlet

Code	UPSW-1

70mm CP brass flange with top access x 15mm plain tail outlet

Code	UPSW-2

85mm CP brass flange with top access x 15mm plain tail outlet

Code	UPSW-3

70mm CP brass flange with top access x 22mm plain tail outlet

Code	UPSW-2-22MM

85mm CP brass flange with top access x 22mm plain tail outlet

Code	UPSW-3-22MM

113mm CP brass flange with top access x 22mm plain tail outlet

Code	UPSW-4-22MM

Code **UPSW-3-22MM**

Urinal Waste Outlets

Backnut Urinal Wastes

Backnut Model - domed flange

	Code
1¼" x 60mm flange x 3½" white plastic tail	**WU10**
1½" x 60mm flange x 2" white plastic tail	**WU11**

Backnut Model - domed flange with removable dome

2" x 85mm flange x 1⅝" grey plastic tail	**GWU20**
2" x 85mm flange x 1⅝" white plastic tail	**WU20**

Backnut Model - flush flange

1¼" x 60mm flange x 3½" CP plastic tail	**CWU1A**
1¼" x 60mm flange x 3½" white plastic tail	**WU1A**
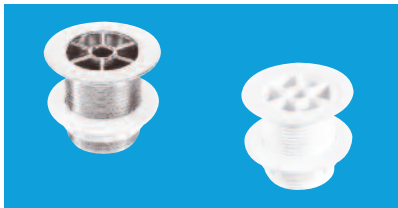
Backnut Model - flush flange

1¼" x 60mm flange x 2⅛" CP plastic tail	**CWU1S**
1¼" x 60mm flange x 2⅛" white plastic tail	**WU1S**

Waste with plug for Caravans and Boats
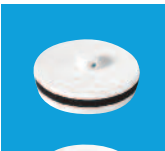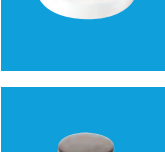
This waste has a plain tail and can be fitted into any 1¼" x 75mm water seal adjustable inlet trap - e.g. AA10 see page 6. Remove standard adjustable inlet supplied and substitute fitting

50mm plastic flange, ¾" BSP thread, plug with special locking nut **CTW1**

Urinal Waste Outlets
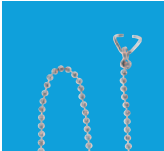
Waste Accessories and Soap Dispenser

Plugs

Black Plastic with Rubber Seal

	Code
1¾" with handle	**BP2H**

Black PVC

1½" with handle	**BP3H**
1¾" with handle	**BP4H**

White Plastic with Rubber Seal

1¾" with handle	**WP2H**

CP Plastic with Rubber Seal

1½" with handle	**CP1H**
1¾" with handle	**CP2H**

CP Plastic with Rubber Seal

1½"	**CP1**
1¾"	**CP2**

Black PVC

1½"	**BP3**
1½" with triangle	**BP3T**
1¾"	**BP4**
1¾" with triangle	**BP4T**
2"	**BP5**

White Plastic with Rubber Seal

1½"	**WP1**
1½" with triangle	**WP1T**
1¾"	**WP2**
1¾" with triangle	**WP2T**

White PVC

1½"	**WP3**
1½" with triangle	**WP3T**
1¾"	**WP4**
1¾" with triangle	**WP4T**

Captive Plug - Black Plastic

1½"	**BP1-CAP†**
1¾"	**BP2-CAP†**

† Note: BP1-CAP and BP2-CAP are only for use with McAlpine wastes which have a centre pin fixing

Chains

	Code
10" CP chain and two triangles	**CH5**
16" CP chain and two triangles	**CH4**
18" CP chain and two triangles	**CH4-18**
10" CP chain and two triangles, stay and nut	**CH10**

Backnuts

White Plastic with Rubber Washer

1¼" x 60mm flange	**BN1**
1½" x 70mm flange	**BN2**
1½" x 85mm flange	**BN3**
2" x 75mm flange	**BN5**

Tap Hole Stoppers

Stainless Steel

16mm long thread	**TAPSTOP-SS**
40mm long thread	**TAPSTOP-SS40**

White Plastic

17mm long thread	**TAPSTOP-WH**

Overflow Stopper

Black Plastic

17mm long thread	**O/FSTOP-BL**

Soap Dispenser

Sink ½ litre bottle with CP plastic top

Code	**SOAP-CP**

Handipak Carded Plumbing Range

Card Description

1 Two Basin Plugs
2 Two Sink or Bath Plugs
3 Basin Plug, Chain & Stay
4 Bath Plug & Chain
5 Sink Plug & Chain
6 Chrome Plated Basin & Bath Plugs
7 Chrome Plated Handle Basin Plug
8 Chrome Plated Handle Sink or Bath Plug
9 White Handle Sink or Bath Plug
10 Indian Ivory Handle Sink or Bath Plug
11 Mocca Handle Sink or Bath Plug
12 Basin Chain & Stay
13 Bath Chain
14 White Pop-Up Plug
15 Indian Ivory Pop-Up Plug
16 Mocca Pop-Up Plug
17 Stainless Steel Pop-Up Plug
18 Tap Hole Stopper
19 Sink Overflow Stopper
20 $1^1/_4$" Backnut & Washer
21 $1^1/_2$" Backnut & Washer
22 Two $1^1/_4$" Multifit Washer Sets
23 Two $1^1/_2$" Multifit Washer Sets
24 Five $1^1/_4$" Rubber Washers
25 Five $1^1/_2$" Rubber Washers
26 $1^1/_2$" x $1^1/_4$" Reducer
27 $1^1/_2$" x $1^1/_4$" Trap Inlet Reducer
28 $1^1/_4$" BSP Coupling 2" Long
29 $1^1/_2$" BSP Coupling 2" Long
30 $1^1/_2$" European to UK Waste Adaptor
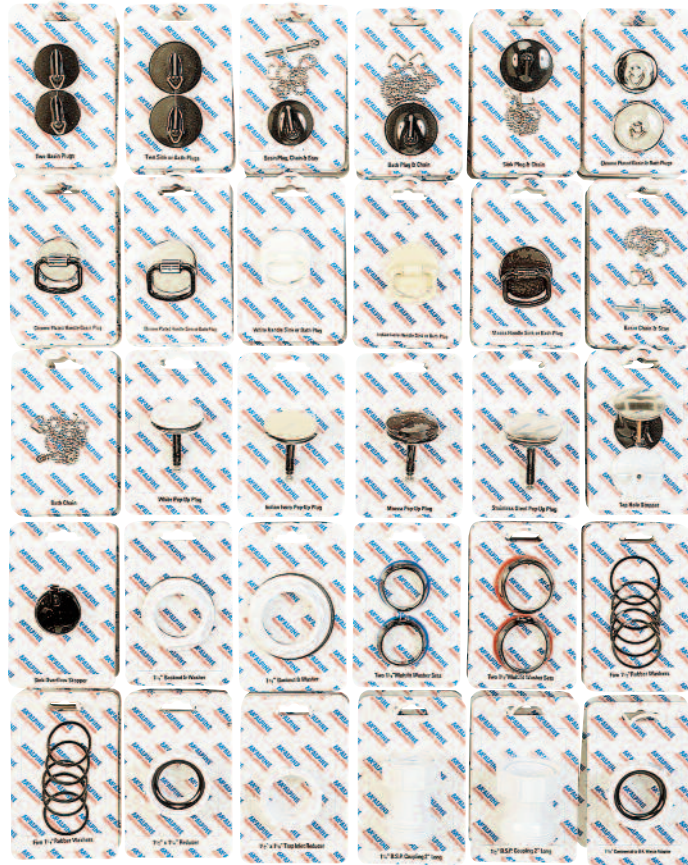
31 Five Rubber 'O' Rings for Shower Trap Dip Tube
32 Two CP Grids for Shower Traps
33 Two White Grids for Shower Traps
34 Two Gold Grids for Shower Traps
49 Stainless Steel Strainer Plug (Stemball)
50 White Strainer Plug
51 Indian Ivory Strainer Plug
52 Mocca Strainer Plug
53 Stainless Steel Strainer Plug
54 Gold Waste & Grid for McAlpine Access Shower Trap

55 Tundish with 19/23mm Universal Compression Outlet
56 Side Inlet Tundish with 19/23mm Universal Compression Outlet
57 Top Inlet Tundish with 19/23mm Universal Compression Outlet
58 $^3/_4$" Overflow x $1^1/_2$" Flushpipe Tee
59 Nozzle for McAlpine Washing Machine Trap
60 $1^1/_2$" Tee Piece with Adaptor for Washing or Dishwashing Machine Discharge Hose

Handipak pre-packed carded range with Euroslot
Cards 1-34: 140mm x 90mm   Cards 49-60: 220mm x 140mm

Handipak Carded Plumbing Range

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McALPINE
Plumbing Products

Technical Details

Installation Guidelines

■ **Building Regulations** require that all points of discharge into a drainage system should be fitted with a trap (e.g. a water seal trap) to prevent foul air from the system entering the building. Under working and test conditions traps should retain a minimum seal of 25mm of water

Installation Requirements

All traps, waste pipe, waste fittings and soil fittings when installed in buildings should be installed in compliance with:

■ Building Regulations 2000 (2002 edition) Approved Document H England and Wales

■ The Building Standards (Scotland) Regulations 1990 (as amended)

■ The Building Regulations (Northern Ireland) 2000 Alternatively the relevant recommendations of BS EN 12056-2:2000 should be followed

All traps should be accessible and provided with an adequate facility for cleansing, for example, traps are capable of being readily removed or dismantled. In general a trap which is not an integral part of an appliance should be attached to, and be immediately beneath, its outlet. However, traps that are not connected to the appliance should be as close as possible. There should be no more than one trap on the discharge pipework from any appliance.

Code **ASA10**

Trap Seals

■ Traps with outlets for pipes up to and including DN50 should have a minimum water seal of 50mm on baths and showers, provided they are fitted with flush-grated wastes without plugs on spray-tap basins; 75mm trap seals should be used with all other appliances

■ Traps with outlets for pipes over DN50 should have a minimum water seal of 50mm

■ Traps used on appliances with flat bottoms (trailing waste discharge) and discharging to a gully with a grating may have a reduced water seal of not less than 38mm

M^{C}Alpine manufactures 19mm water seal traps to meet market demand for replacement traps or for situations where space is limited. These traps should **not** be used in situations where a minimum 50mm water seal trap is required or where the waste pipe is connected to a soil stack.

■ **The table opposite is an extract for BS EN 12056-2:2000 Gravity Drainage Systems Inside Buildings**

Notes relating to table opposite

(1) Steeper gradients permitted if pipe is less than maximum permitted length

(2) If length is greater than 3m noisy discharge may result with an increased risk of blockage

(3) Should be as short as possible to limit problems with deposition

(4) Sharp throated bends should be avoided

(5) For slab urinal for up to 7 persons. Longer slabs to have more than one outlet

(6) Swept - entry branches serving WC's

(7) Includes small potato-peeling machines

(8) Tubular not bottle or resealing traps

(9) Spray tap basin shall have flush-grated wastes without plugs

Appliance	Diameter (DN)	Min. Trap Seal Depth (mm)	Max. Length (L) of Pipe from Trap Outlet to Stack (m)	Pipe Gradient (%)	Max. Number of Bends (no)	Max. Drop (m)
Washbasin, Bidet (30mm diameter trap)	30	75	1.7	2.2[1]	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	1.1	4.4[1]	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	0.7	8.7[1]	0	0
Washbasin, Bidet (30mm diameter trap)	40	75	3.0	1.8 to 4.4	2	0
Shower, Bath	40	50	No Limit[2]	1.8 to 9.0	No Limit	1.5
Bowl Urinal	40	75	3.0[3]	1.8 to 9.0	No Limit[4]	1.5
Trough Urinal	50	75	3.0[3]	1.8 to 9.0	No Limit[4]	1.5
Slab Urinal[5]	60	50	3.0[3]	1.8 to 9.0	No Limit[4]	1.5
Kitchen Sink (40mm diameter trap)	40	75	No Limit[2]	1.8 to 9.0	No Limit	1.5
Household Dishwasher or Washing Machine	40	75	3.0	1.8 to 4.4	No Limit	1.5
WC with Outlet up to 80mm[6]	75	50	No Limit	1.8 Min.	No Limit[4]	1.5
WC with Outlet greater than 80mm[6]	100	50	No Limit	1.8 Min.	No Limit[4]	1.5
Food Waste Disposal[7]	40 Min.	75[8]	3.0[3]	13.5 Min.	No Limit[4]	1.5
Sanitary Towel Disposal Unit	40 Min.	75[8]	3.0[3]	5.4 Min.	No Limit[4]	1.5
Floor Drain	50	50	No Limit[3]	1.8 Min.	No Limit	1.5
Floor Drain	70	50	No Limit[3]	1.8 Min.	No Limit	1.5
Floor Drain	100	50	No Limit[3]	1.8 Min.	No Limit	1.5
4 Basins	50	75	4.0	1.8 to 4.4	0	0
Bowl Urinals[8]	50	75	No Limit[3]	1.8 to 9.0	No Limit[4]	1.5
Maximum of 8 WC's[6]	100	50	15.0	0.9 to 9.0	2	1.5
Up to 5 Spray Tap Basins[9]	30 Max.	50	4.5[3]	1.8 to 4.4	No Limit[4]	0

Installation Information

Most individual products are supplied with detailed installation instructions. The following is general information.

Trap Inlets

When connecting the trap inlet to the waste outlet, it is important to ensure that a proper 'seating' is obtained and it is therefore recommended that the waste outlet used be to British Standard or equivalent, otherwise difficulty may be experienced in obtaining a water tight joint. All traps are supplied complete with inlet washers.

Trap Outlets and Multifit Fittings see Page 2

For use with plastic pipes to BS EN 1451-1:2000 and BS EN 1329-1:2000, copper pipe (metric or imperial) and lead pipe. Fit as follows:

- Chamfer inside of pipe, if required to remove any burr or to enable plastic pipe to be eased over internal sleeve
- Remove nut, plastic friction washer and rubber olive from trap or fitting
- Push nut, plastic friction washer and rubber olive over pipe
- Push pipe over internal sleeve and into trap or fitting
- Connect nut and hand tighten

If a plastic pipe is undersize, or out of shape, the end may require to be warmed to enable it to be pushed over the internal sleeve and into the trap or fitting.

Universal Trap Outlets and Fittings

Fit as Multifit but internal sleeve not applicable

Surefit Fittings see Page 59

To BS EN 1329-1:2000

For use with McAlpine HDPE waste pipe only. Fit as follows:

- Chamfer inside of pipe, if required to remove burr
- Remove nut and rubber washer from fitting
- Push nut and rubber washer over pipe

- Push pipe into socket
- Connect nut and hand tighten

Pushfit Fittings see Page 67

For use with McAlpine overflow pipe. Fit as follows:

- Gently warm end of pipe - say 25mm
- Push Fitting inside or outside of pipe dependent on type of fitting

Pipe Clipping

It is of the utmost importance that plastic pipe be properly supported as recommended below:

		Waste (m)	Overflow (m)
Horizontal:	Every	0.5	0.5
Vertical:	Every	1.2	1.2

Code **CAA10**

Code **35A-CB**

Code **PIPE35-1000-CB**

Product Information

Traps and Waste Outlet Fittings see Sections 1 and 7

All traps, waste outlets and overflows for kitchen sinks, shower trays, wash basins, bidets and baths meet the dimensional, performance, materials and marking requirements of EN 274-1:2002.

Condensate Products see Pages 16-17

McAlpine traps and fittings for connecting condensate discharge from condensing boilers to sanitary pipework meet the requirements of BS 6798:2009 and Building Regulations Approved Document H.

Bath Fillers see Page 20

McAlpine bath fillers have the following flow rates:

0.5 bar pressure produces 33 litres per minute

1.0 bar pressure produces 44 litres per minute

2.0 bar pressure produces 57 litres per minute

Shower and Floor Gullies see Section 2

Shower and floor gullies are manufactured to comply with EN 1253-2:2003.

Surefit Waste System see Page 59

Surefit waste system is manufactured to comply with BS EN 1329-1:2000.

MACFIT WC Connectors see Pages 74-75

MACFIT WC connectors are manufactured to comply with BS 5627:1984.

Flexible WC Connectors see Pages 76-78

Flexible WC connectors are manufactured to comply with German Standard DIN 1389:2001-05 and have LGA Approval, certificate number 7311072.

Rigid WC Connectors see Pages 79-81

Rigid WC connectors are manufactured to comply with BS 5627:1984 and German Standard DIN 1389-2.

Air Admittance Valves (Ventapipe) see Section 6

Air admittance valves (Ventapipe) are manufactured to comply with BS EN 12380:2002 and have LGA Approval.

Code **WC-CON8F18**

Code **VP50P**

Technical Details

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