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**M<sup>c</sup>ALPINE**  
Plumbing Products

# Product Catalogue



Complete Range of Plumbing Products



## Introduction

M'Alpine commenced manufacturing plumbing products in 1902 and in 1957 was the first United Kingdom Company to manufacture plastic traps

M'Alpine 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 sixty countries worldwide

As market leader, M'Alpine has a reputation for producing innovative products determined by market conditions and customer demand

M'Alpine 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

M'Alpine 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

M'Alpine operates strict quality control systems within all its factories 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

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**The company operate a policy of progressive improvements and reserve the right to alter the specification of any product without notice**



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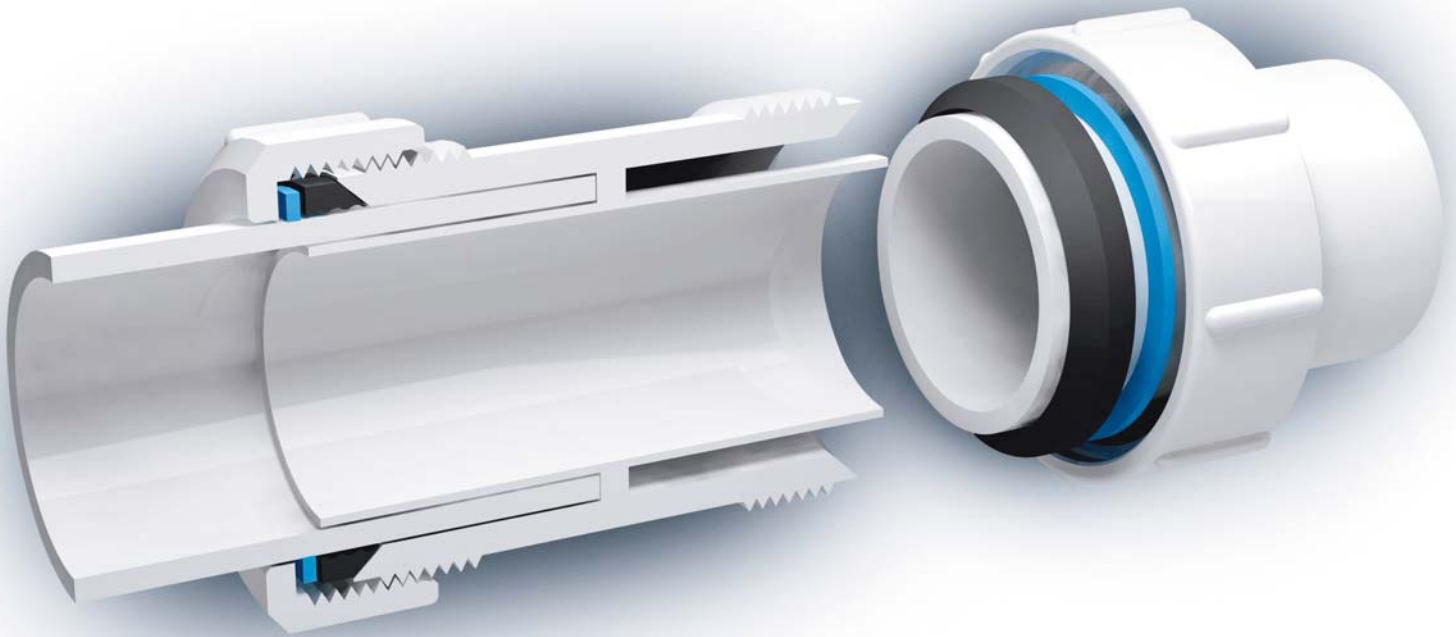
## Technical Details and Index

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## 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



### Multifit Connections

- 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



**Plastic Traps  
Condensate Products**



Plastic Traps and Condensate Products

# Anti-Syphon Traps (Silenttraps)

## General

- By drawing air through the valve, the Silenttrap 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 Silenttrap has been most rigorously tested and will not unseal, even under the most abnormal conditions
- The Silenttrap 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 Silenttrap air and watertight

## Advantages

- The major advantage of the Silenttrap 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
- Silenttrap valves are available on a wide range of Bottle, Tubular and Bath Traps
- Silenttraps allow for greater flexibility in plumbing design

- The products below simply show that the Silenttrap 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 (Silenttrap). 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

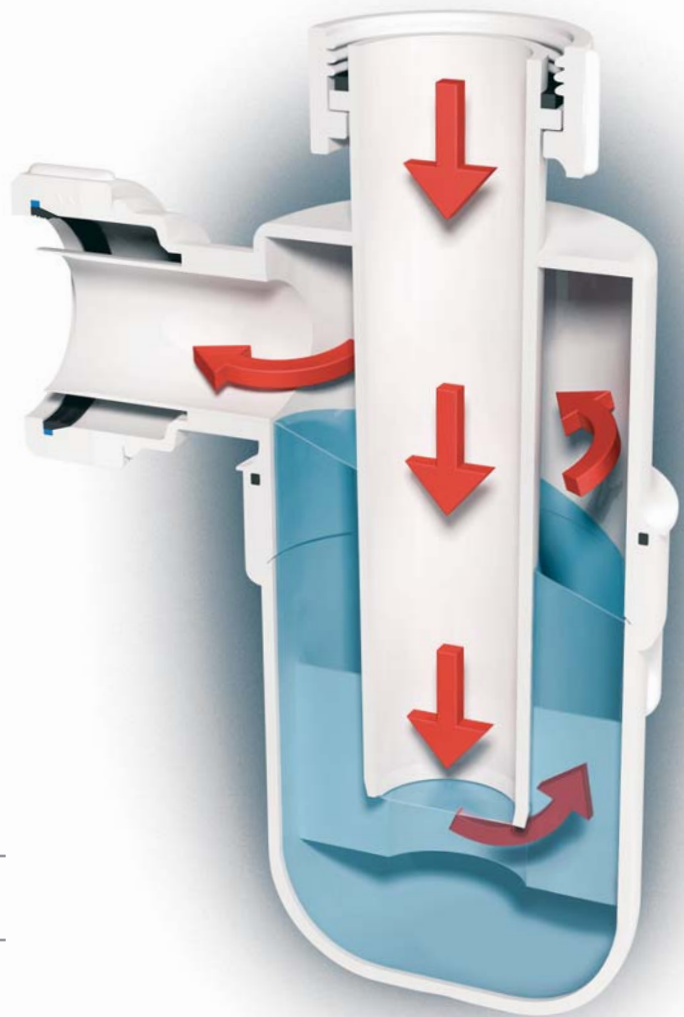
Resealing Bottle Traps are an alternative to Anti-Syphon Traps (Silenttraps) and may be used in similar circumstances

## 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 by pass 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
<b>A10R</b>	<b>C10R</b>

### Standard



### Adjustable Inlet

<b>A10AR</b>	<b>C10AR</b>
--------------	--------------



### Adjustable Inlet Chrome Plated

<b>A10AR-CP</b>	<b>C10AR-CP</b>
-----------------	-----------------



### Resealing Shower Trap

Code	<b>STW4-RB</b>
------	----------------

- Full range of Resealing Shower Traps see pages 24-26

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

# Bottle Traps with 75mm Water Seal

Bottle Traps with 75mm Water Seal



1¼" Code	1½" Code
<b>Standard</b>	
<b>A10</b>	<b>C10</b>



<b>Anti-Syphon (Silentrap)</b>	
<b>A10V</b>	<b>C10V</b>



<b>Resealing</b>	
<b>A10R</b>	<b>C10R</b>



<b>Adjustable Inlet</b>	
<b>A10A</b>	<b>C10A</b>



<b>Anti-Syphon (Silentrap) Adjustable Inlet</b>	
<b>A10AV</b>	<b>C10AV</b>



<b>Resealing Adjustable Inlet</b>	
<b>A10AR</b>	<b>C10AR</b>



1¼" Code	1½" Code
<b>Adjustable Inlet</b>	
<b>AA10</b>	-



<b>Adjustable Inlet Basin Trap with centre pin waste</b>	
<b>AA10W</b>	-



<b>38mm Water Seal</b>	
<b>E10</b>	<b>G10</b>



<b>Conversion Bend to convert bottle 'P' trap to 'S' trap</b>	
<b>S1M</b>	<b>T1M</b>

## Chrome Plated Bottle Traps

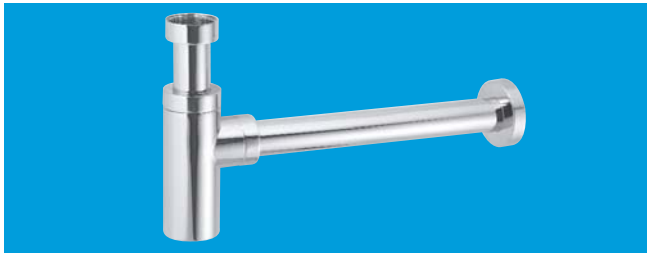


1¼" Code	1½" Code
<b>Resealing Trap Adjustable Inlet</b>	
<b>A10AR-CP</b>	<b>C10AR-CP</b>



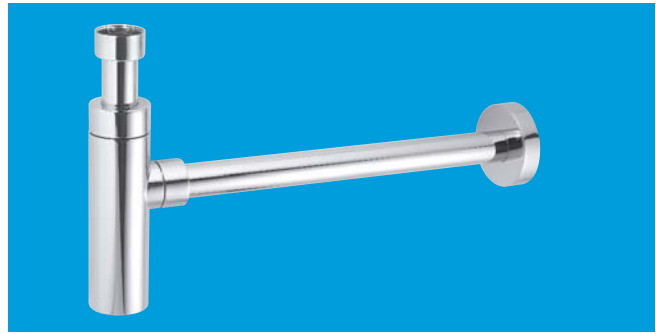
<b>Adjustable Inlet</b>	
<b>CAA10</b>	
<b>Adjustable Inlet to suit 32mm OD European size CP brass waste pipe</b>	
<b>CE31A</b>	





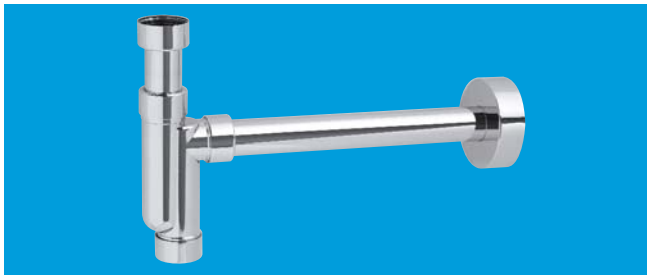
**1 1/4" x 50mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap** with 12" length of 32mm OD CP brass waste pipe and wall flange

Code **CA32MINI-CB**



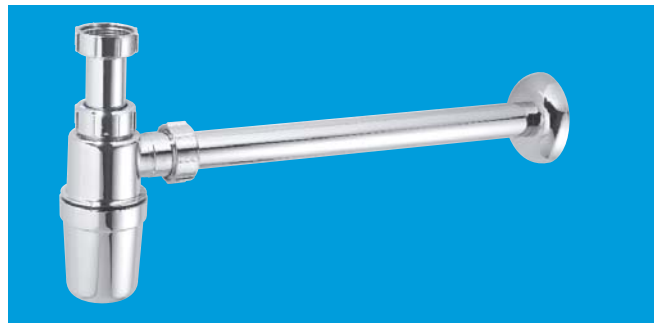
**1 1/4" x 75mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap** with 16" length of 32mm OD CP brass waste pipe and wall flange

Code **CA32UK-CB**



**1 1/4" x 50mm Water Seal Plastic Adjustable Inlet Tubular Trap** with 12" length of 32mm OD CP brass waste pipe and wall flange

Code **TA32UK-CB**



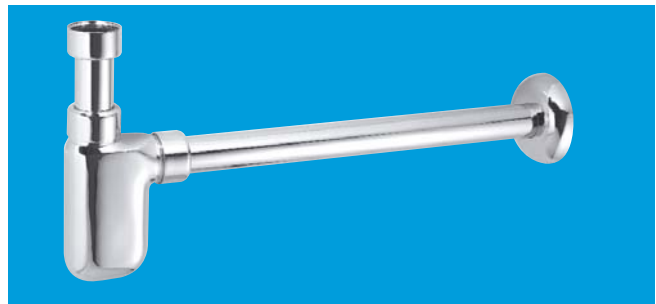
**1 1/4" x 75mm Water Seal Plastic Adjustable Inlet Bottle Trap** with 16" length of 32mm OD CP brass waste pipe and wall flange

Code **A32UK-CP**



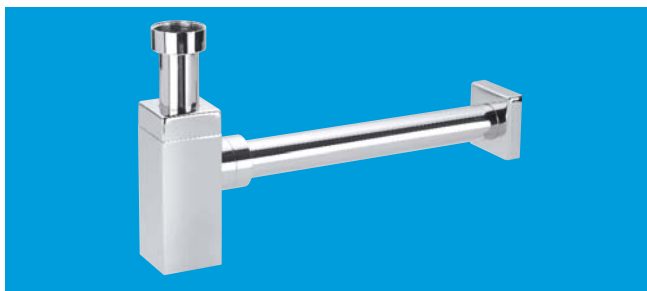
**1 1/4" x 50mm Water Seal Plastic Adjustable Inlet Tubular Anti-Syphon Trap (Silentrap)** with 12" length of 32mm OD CP brass waste pipe and wall flange

Code **TA32VUK-CB**



**1 1/4" 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**



**1 1/4" 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**

- All kits except TA32UK-CB and TA32VUK-CB supplied with MS4-32SOLVENT fitting see pages 48 and 52
- For Chrome Plated Brass Waste Pipe and Fittings see page 52

# Tubular Traps with 75mm Water Seal

Tubular Traps with 75mm Water Seal



1¼" Code	1½" Code	2" Code
<b>Swivel 'P'</b>		
<b>SA10</b>	<b>SC10</b>	<b>SE10</b>



1¼" Code	1½" Code	2" Code
<b>Low Inlet</b>		
<b>BT3*</b>	-	-



1¼" Code	1½" Code	2" Code
<b>Anti-Syphon (Silentrap)</b>		
<b>SA10V</b>	<b>SC10V</b>	<b>SE10V</b>



1¼" Code	1½" Code	2" Code
<b>50mm Water Seal</b>		
<b>BT4</b>	-	-



1¼" Code	1½" Code	2" Code
<b>Adjustable Inlet</b>		
<b>ASA10</b>	<b>ASC10</b>	<b>ASE10</b>



1¼" Code	1½" Code	2" Code
<b>Adjustable Inlet with connection for 19/23mm pipe</b>		
<b>ASA10-SP*</b>	<b>ASC10-SP*</b>	-



1¼" Code	1½" Code	2" Code
<b>Adjustable Inlet Anti-Syphon (Silentrap)</b>		
<b>ASA10V</b>	<b>ASC10V</b>	<b>ASE10V</b>



1¼" Code	1½" Code	2" Code
<b>Swivel 'S'</b>		
<b>SB10</b>	<b>SD10</b>	<b>SF10</b>



1¼" Code	1½" Code	2" Code
<b>Adjustable Inlet Basin Trap with centre pin waste</b>		
<b>ASA10W*</b>	-	-



1¼" Code	1½" Code	2" Code
<b>All One</b>		
<b>SP10</b>	<b>TP10</b>	<b>ZP10</b>



1¼" Code	1½" Code	2" Code
<b>Adjustable Inlet Sink Trap with centre pin waste</b>		
-	<b>FST1WP*</b>	-



1¼" Code	1½" Code	2" Code
<b>All One Anti-Syphon (Silentrap)</b>		
<b>SP10V</b>	<b>TP10V</b>	<b>ZP10V</b>



1¼" Code	1½" Code	2" Code
<b>All One Basin Trap with centre pin waste</b>		
<b>SP10W*</b>	-	-





Code **SA10**



1¼" Code	1½" Code	2" Code
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Running 'P'

SR10*	TR10*	SG10*
-------	-------	-------



Running 'S'

SS10	TS10	SH10
------	------	------



1¼" Code
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**Offset Basin Trap** with adjustable inlet and cleaning eye

<b>OBT1</b>
-------------

**Offset Anti-Syphon (Silentrap) Basin Trap** with adjustable inlet and removable anti-syphon valve for cleaning purposes

<b>OBT1V</b>
--------------



Running suitable for most waste disposal units

-	TT10*	-
---	-------	---



Running with 20mm water seal

-	TRSH10	-
---	--------	---



Adjustable Inlet with 19mm water seal

<b>BT1</b>	<b>BT2</b>	-
------------	------------	---



**Straight Through** with one cleaning eye

1¼" Inlet x 1¼" outlet	<b>X10</b>	-	-
------------------------	------------	---	---

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

1¼" Inlet x 1¼" outlet	<b>X10V</b>	-	-
------------------------	-------------	---	---

**Straight Through** with two cleaning eyes

1¼" Inlet x 1¼" outlet	<b>X10A</b>	-	-
------------------------	-------------	---	---

1¼" Inlet x 1½" outlet	<b>Y10</b>	-	-
------------------------	------------	---	---

# 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 **WM11\***



Code **WM12\***



Code **WM14\***



Code **WM15\***



Code **ASC10-CO\***

## Standpipe Trap and Fittings



**Standpipe Cap** with retaining clip

Code **WM3-CAP**



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

- 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

Code **V33WM**



**Standpipe Trap**

Code **WM3\***



## 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
- TeeVent fittings may 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 **TV2**

- **TV1** can be connected direct to the trap
- **TV2** can be extended away from the trap by inserting a length of 1½" waste pipe between Multifit connections of the TeeVent and the trap

### 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**

Code

**WM4\***

**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"

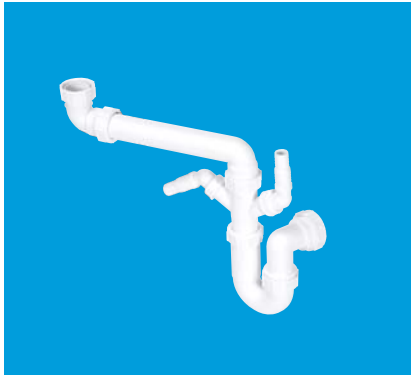
Code **V33S**

- 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

# Space Saver and Standard Plumbing Kits for Sinks. Plumbing

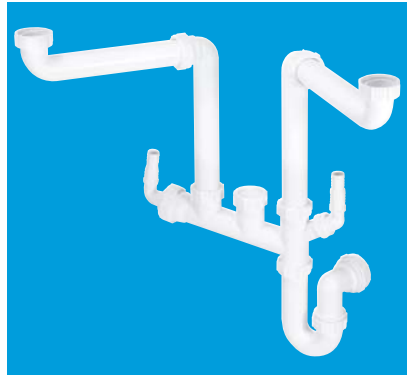
## General

- 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 an 1½" x 75mm water seal tubular swivel 'P' trap
- Each kit is boxed individually and supplied with an illustrative drawing



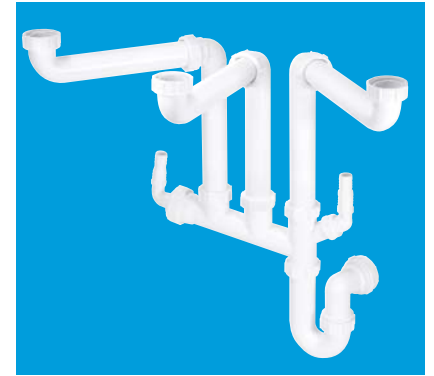
Single Bowl Kit

Code **SSK1**



Double Bowl Kit

Code **SSK2**



Three Bowl Kit

Code **SSK3**

Space Saver Plumbing Kits

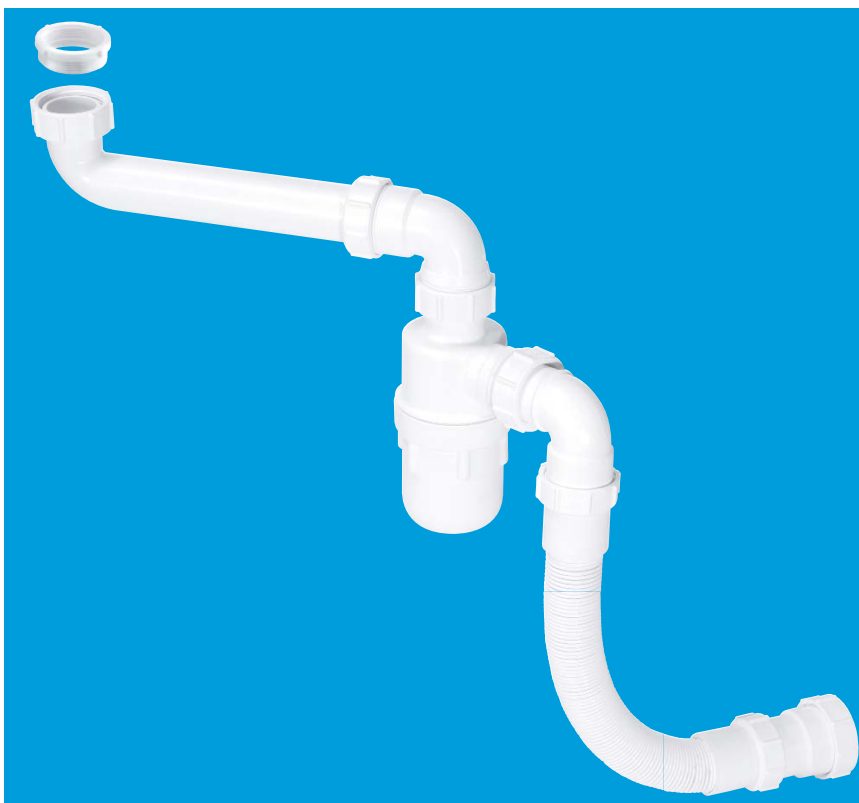


1½" Space Saver Trap Inlet

Code **SSINLET1**

1¼" Space Saver Trap Inlet

Code **SSINLET2**

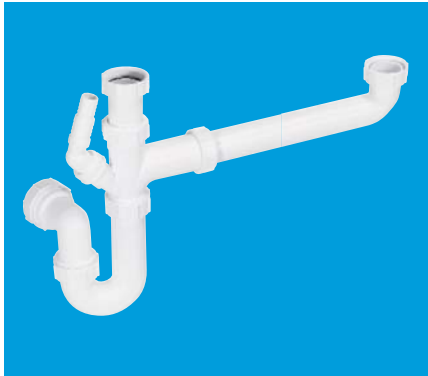


Plumbing Kit for adjustable height basin or sink

Code **FLEXKIT1**

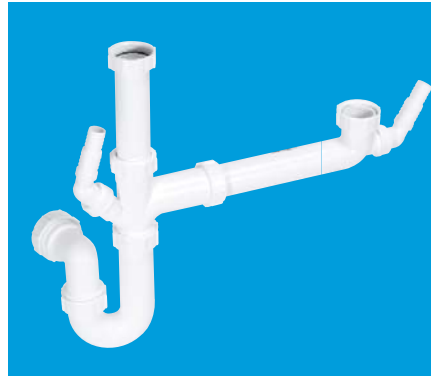
### General

- 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 an 1½" x 75mm water seal tubular swivel 'P' trap
- Each kit is supplied in a polythene bag complete with an illustrative drawing



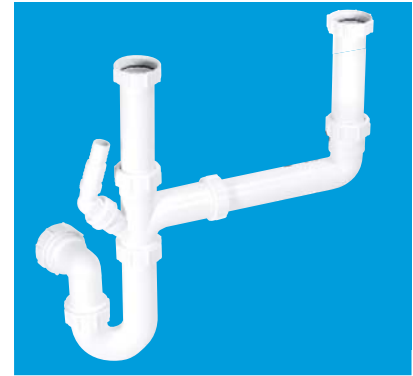
**Bowl and a Half Kit**

Code **SK1**



**Bowl and a Half Kit**

Code **SK1A**



**Double Bowl Kit**

Code **SK2**



Code **SK1**



**Three Bowl Kit**

Code **SK3**



**Blanking Plug(s)**  
included with all  
plumbing kits

Code **228532**



# Condensate Products for Connecting Condensate Discharge

## Basin and Sink Traps



**1 1/4" x 75mm Water Seal Tubular Swivel Basin Trap** with adjustable inlet and connection for 19/23mm pipe. Supplied with blanking cap

Code **ASA10-SP\***



**1 1/2" x 75mm Water Seal Tubular Swivel Sink Trap** with adjustable inlet and connection for 19/23mm pipe. Supplied with blanking cap

Code **ASC10-SP\***



**1 1/2" 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 condensing boiler. Supplied with support clip

Code **OBT1-CO**

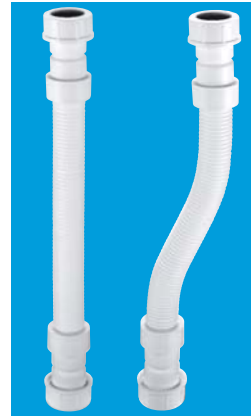


**34mm Open Inlet x 75mm Water Seal Offset Trap** to accept flexible pipe from condensing boiler. Supplied with support clip

Code **OBT2-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 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 connections suitable for 19/23mm rigid pipe and 25mm flexible pipe
- 1 x 1 1/2" plain tail ABS solvent weld reducer to 19/23mm rigid pipe and 25mm flexible pipe

Code

**CONFLEX-KIT1**

**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 condensing boiler. 19/23mm x 32mm solvent weld fitting provided to increase size of discharge pipe before it passes through the external wall  
 Code **SOAK1GR**

**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**

**Auxiliary Fittings**



**Pipe Clamp to suit 1¼"/1½"**  
**Pipe** to BS EN 1451-1:2000 /BS EN 1329-1:2000 with universal connection for 19/23mm rigid pipe and 25mm flexible pipe  
 Code (Grey) **CLAMP1GR**  
 Code (White) **CLAMP1WH**



**1½" x 1½" x 19/23mm Universal Slip Tee** with universal connection for 19/23mm rigid pipe and 25mm flexible 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 connections for 19/23mm rigid pipe and 25mm flexible pipe  
 Code **R1M-CO**



**50mm Tun Dish** with 19/23mm pipe outlet  
 Code **TUN-2**



**Two-Piece Cast Iron Soil Pipe Boss Connector to suit 22mm drill size.** Supplied with fixing tool  
 4"/110mm x 1¼" pipe  
 Code **BOSS110CAST-BL**  
 4"/110mm 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 connection**  
 Code **R16-BL**  
 Code **R16-GR**



**Mechanical Soil and Rainwater Pipe Boss Connector** for 19/23mm pipe  
 Code **BOSSCONN-22MM**

For full range of Boss Connectors see page 55

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

## Bath Traps without Overflows



1 1/2" x 75mm Water Seal

Code **L10**



1 1/2" x 75mm Water Seal Anti-Syphon (Silentrap)

Code **L10V**



1 1/2" x 60mm Water Seal (Extended Body)

Code **SM10E**



1 1/2" x 60mm Water Seal (Extended Body) Anti-Syphon (Silentrap)

Code **SM10EV**



1 1/2" x 50mm Water Seal

Code **SM10**



1 1/2" x 50mm Water Seal Anti-Syphon (Silentrap)

Code **SM10V**



1 1/2" x 50mm Water Seal

Code **SMP10**



1 1/2" x 50mm Water Seal Anti-Syphon (Silentrap)

Code **SMP10V**

■ For Bath Waste Outlet Fittings suitable for use with the above Traps see pages 83-85



1 1/4" x 19mm Water Seal

Code **P10**

1 1/2" x 19mm Water Seal

Code **Q10**

## Bath Trap with Top Access

- 1 1/2" 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 109mm



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 Anti-Syphon (Silentrap)** with flexible overflow tube and CP overflow grating

Code **FJ10V**



**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**



**1½" x 50mm Water Seal Anti-Syphon (Silentrap)** with flexible overflow tube and CP overflow grating

Code **FSK10V**

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

■ For Bath Waste Outlet Fittings suitable for use with the above traps see page 83

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

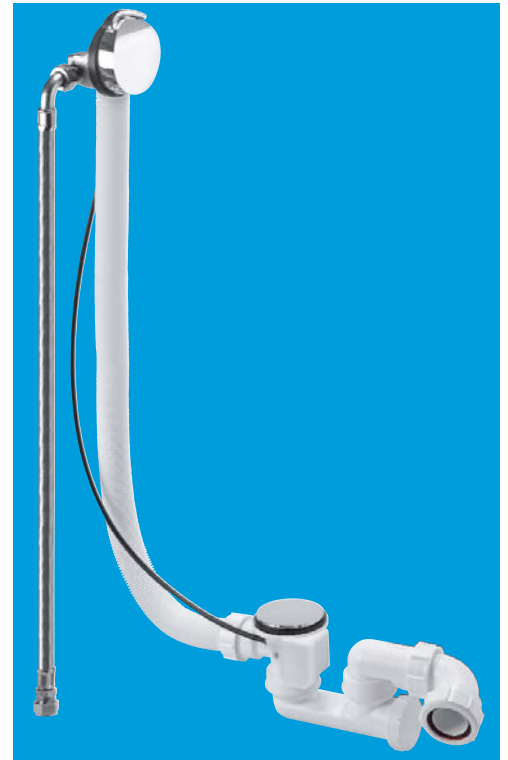
## General

- 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 1½" 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 1099mm
- **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

Bath Fillers with Trap and Overflow



Code **HCN3365UK**  
Code **HCN3365UK-1M**

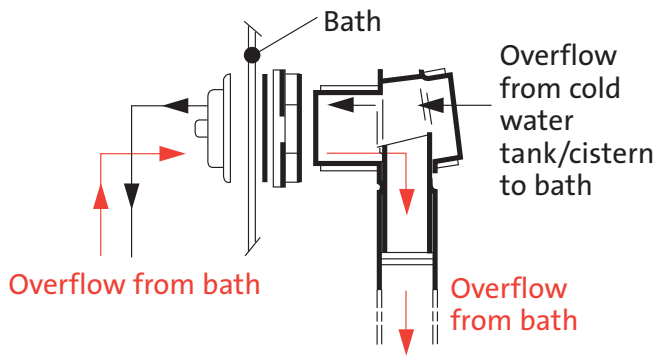


Code **HCN3165UK**  
Code **HCN3165UK-1M**



Code **HC2650UK-FIL**  
Code **HC2650UK-FIL-1M**





### 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 or condense drain

### Advantages

- Wasteflow is available in various forms that allow greater flexibility for the discharge of cistern overflows, condensate and condense
- 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	<b>PUWF3-CP*</b>
With SM10E Trap	<b>PUWF2-CP*</b>



**Wasteflow** with trap

With FJ10 Trap	<b>FJWF1*</b>
With FSK10 Trap	<b>FSKWF1*</b>

Without Trap	<b>WF1</b>
--------------	------------

■ Bath Waste Outlet Fittings see page 83



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

Code	<b>WF21</b>
------	-------------

- Wasteflow Manifolds have a 1½" BSP male thread on the inlet and will normally require an additional fitting from the list on page 20

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



## 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 63 for WC Overflow Kits with Tun Dish

### Chrome Plated Brass Bath Traps with Combined Waste and Overflow



**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**

# 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 113mm Flange to

CP Plastic Flange

CP Brass Flange

CP Brass Flange

### 90mm x 50mm Water Seal with 1½" Multifit Outlet

Overall height 70mm



ST90CP10-70



ST90CB10-70



ST90CPB-P-70

### 90mm x 50mm Water Seal with 1½" Multifit Outlet

Overall height 82mm



ST90CP10



ST90CB10



ST90CPB-P

### 90mm x 50mm Water Seal with 1½" Multifit Outlet

High-flow high-performance trap. Overall height 85mm



ST90CP10-HP2



ST90CB10-HP2



ST90CPB-P-HP2

### 90mm x 50mm Water Seal with 2" Multifit Outlet

High-flow high-performance trap. Overall height 85mm



ST90CP10-HP



ST90CB10-HP



ST90CPB-P-HP

### 90mm x 50mm Water Seal with 2" Universal Vertical Outlet

Overall height 108mm



ST90CP10-V



ST90CB10-V



ST90CPB-P-V

90mm Shower Traps with 50mm Water Seal



**facilitate easy cleaning**

CP Brass Flange

White Plastic Flange

**90mm x 50mm Water Seal with 1½" Multifit Outlet**

Overall height 70mm



**ST90CPB-S-70**



**ST90WH10-70**

**90mm x 50mm Water Seal with 1½" Multifit Outlet**

Overall height 82mm



**ST90CPB-S**



**ST90WH10**

**90mm x 50mm Water Seal with 1½" Multifit Outlet**

High-flow high-performance trap. Overall height 85mm



**ST90CPB-S-HP2**



**ST90WH10-HP2**

**90mm x 50mm Water Seal with 2" Multifit Outlet**

High-flow high-performance trap. Overall height 85mm



**ST90CPB-S-HP**



**ST90WH10-HP**

**90mm x 50mm Water Seal with 2" Universal Vertical Outlet**

Overall height 108mm



**ST90CPB-S-V**



**ST90WH10-V**

■ For flow rates see page 101

*Do not pour drain cleaner down these products*

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
- 1½" Multifit outlet
- 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 27

1½" Shower Traps with Top Access

Code STW4-R



70mm White Plastic Flange

85mm White Plastic Flange

### 19mm Water Seal Trap

Overall height 95mm



STW1-R



STW5-R

### 50mm Water Seal Trap

Overall height 95mm



STW2-95



STW6-95

### 50mm Water Seal Resealing Trap

Overall height 118mm



STW2-R



STW6-R

### 80mm Water Seal Resealing Trap

Overall height 154mm



STW9-R



STW11-R

*Do not pour drain cleaner down these products*

- For flow rates see page 101

70mm CP  
Plastic Flange

85mm CP  
Plastic Flange

70mm CP  
Brass Flange

85mm CP  
Brass Flange

**19mm Water Seal Trap**  
Overall height 95mm



**STW3-R**



**STW7-R**



**STW3-RB**



**STW7-RB**

**50mm Water Seal Trap**  
Overall height 95mm



**STW4-95**



**STW8-95**



**STW4B-95**



**STW8B-95**

**50mm Water Seal Resealing Trap**  
Overall height 118mm



**STW4-R**



**STW8-R**



**STW4-RB**



**STW8-RB**

**80mm Water Seal Resealing Trap**  
Overall height 154mm



**STW10-R**



**STW12-R**



**STW10-RB**



**STW12-RB**

**1 1/2" 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
- 1½" Multifit outlet

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 Overall height 95mm



STW1-M



STW5-M



STW3-M



STW7-M

### 50mm Water Seal Trap Overall height 95mm



STW2M-95



STW6M-95



STW4M-95



STW8M-95

### 50mm Water Seal Resealing Trap Overall height 118mm



STW2-M



STW6-M



STW4-M



STW8-M

### 80mm Water Seal Resealing Trap Overall height 154mm



STW9-M



STW11-M



STW10-M



STW12-M

1½" Shower Traps with Top Access



# 70mm Shower Trap and Shower Trap Accessories SECTION 1



**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. Overall height 50mm

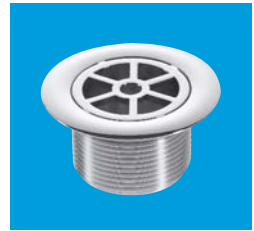
Code **ST70SS85**

■ 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**

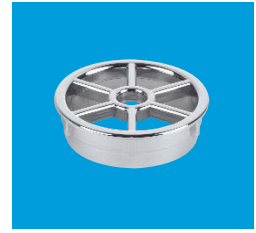


CP Plastic  
**STW70CPL**  
**STW85CPL**

**Grid only**



White Plastic  
**STWGR-WH**



CP Plastic  
**STWGR-CP**



GP Plastic  
**STWGR-GP**

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



**STW70LN**  
**STW85LN**

**Mushroom Flange**



White Plastic  
**STW70WHM**  
**STW85WHM**



CP Stainless Steel  
**STW70SSM**  
**STW85SSM**

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



**STW70LNL**  
**STW85LNL**

70mm Shower Trap and Shower Trap Accessories

*Do not pour drain cleaner down these products*

## Trap Washers, Bath and Shower Trap Accessories



1¼"	1½"	2"
Code	Code	Code

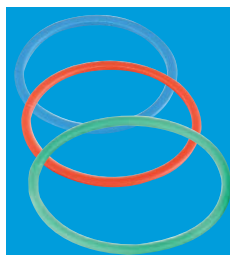
### Trap Inlet

RW1	RW2	RW3
-----	-----	-----



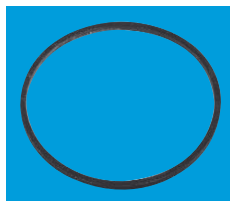
### Multifit Rubber Olive

RWM1	RWM2	RWM3
------	------	------



### Multifit Plastic Friction Washer

Blue	Red	Green
PWM1	PWM2	PWM3



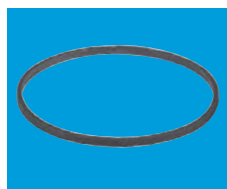
### Rubber Washer

For A10 CUP	ARW10
For C10 CUP	CRW10
For E10 CUP	RW3



### Blanking Plug, Nut and Washer for L10, SM10, SM10E bath traps

Code	L10PLUG
Code	SM10PLUG
Code	SM10EPLUG



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



113mm CP Plastic Flange to suit ST90 Trap. Supplied complete with dip tube

ST90CPTOP+TUBE



Long Waste for ST90CP10, ST90CB10 and ST90WH10 traps. To suit tray with maximum thickness of 25mm

ST90W/BODY-L

# Shower and Floor Gullies Channel Drain and Tile Drain



## SECTION 2



Shower and Floor Gullies, Channel Drain and Tile Drain

# General Information

## Shower and Floor Gullies

- M<sup>C</sup>Alpine 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 wetroom floor formers
- M<sup>C</sup>Alpine 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, M<sup>C</sup>Alpine 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 150mm square stainless steel designer tiles reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm



Code TSG50T6SS



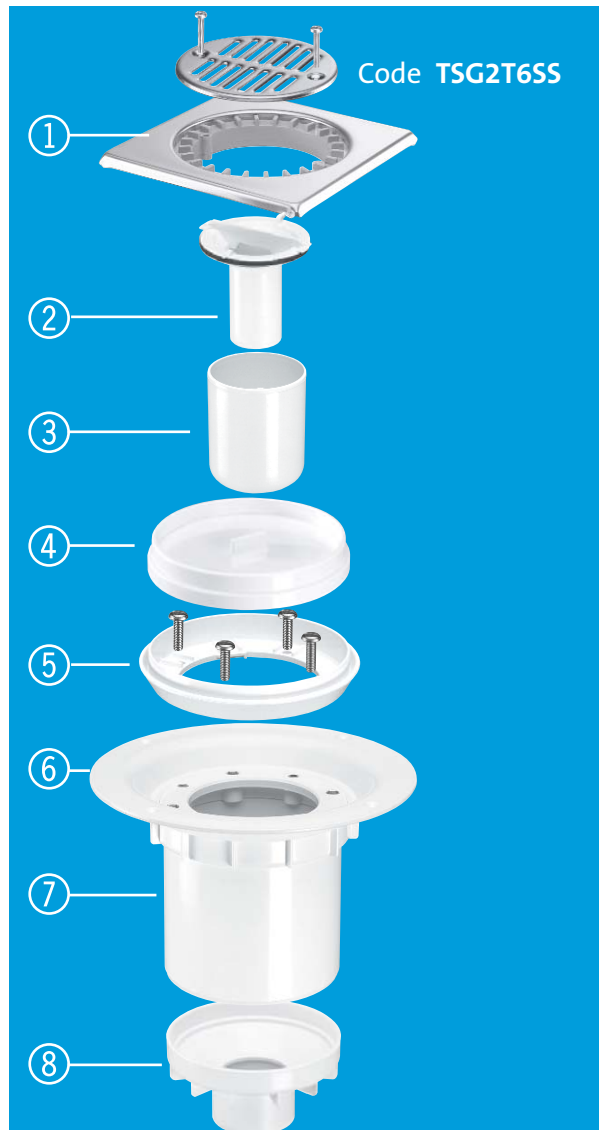
### Sheet Flooring

- 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 32-36 for the full range of Trapped and Untrapped Gullies

# Gullies for use with Sheet Flooring

## Trapped Gullies

White Plastic Clamp Ring and Cover Plate with Securing Screws

Polished Stainless Steel Clamp Ring and Cover Plate with Securing Screws

CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate and Securing Screws

**75mm Water Seal Trap** with 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1½" socket reducer. Overall height 130mm



Code **TSG1-WH**

Without securing screws

Code **TSG1WH-NSC**



Code **TSG1SS**

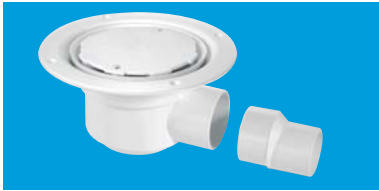


Code **TSG1SS-SL-SC**

Without securing screws

Code **TSG1SS-SL-NSC**

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



Code **TSG50WH**

Without securing screws

Code **TSG50WH-NSC**



Code **TSG50SS**



Code **TSG50SS-SL-SC**

Without securing screws

Code **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 1½" socket reducer. Overall height 100mm



Code **TSG52WH**

Without securing screws

Code **TSG52WH-NSC**



Code **TSG52SS**



Code **TSG52SS-SL-SC**

Without securing screws

Code **TSG52SS-SL-NSC**

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



Code **TSG2WH**

Without securing screws

Code **TSG2WH-NSC**



Code **TSG2SS**



Code **TSG2SS-SL-SC**

Without securing screws

Code **TSG2SS-SL-NSC**

*Gullies without securing screws allow for easier access*

White Plastic Clamp Ring and Cover Plate with Securing Screws

Polished Stainless Steel Clamp Ring and Cover Plate with Securing Screws

CP Brass Clamp Ring, CP Stainless Steel Grated Cover Plate and Securing Screws

**50mm Water Seal Trap** with 1½" BS EN 1329-1:2000 solvent weld side Inlet for waste pipe and 110mm or 1½" solvent weld vertical outlet. Overall height 130mm



Code **TSG3WH**



Code **TSG3SS**



Code **TSG3SS-SL-SC**  
Without securing screws  
Code **TSG3SS-SL-NSC**

**Untrapped Gullies**

**Untrapped Gully** with 22mm horizontal plain outlet for use with pumped waste. Overall height 46mm



Code **USG1WH**  
Without securing screws  
Code **USG1WH-NSC**



Code **USG1SS**



Code **USG1SS-SL-SC**  
Without securing screws  
Code **USG1SS-SL-NSC**

**Untrapped Gully** with 2" BS EN 1329-1:2000 solvent weld vertical outlet and 2" x 1½" socket reducer. Overall height 70mm



Code **USG2WH**



Code **USG2SS**



Code **USG2SS-SL-SC**  
Without securing screws  
Code **USG2SS-SL-NSC**

**Untrapped Gully** with 1½" BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 75mm



Code **USG3WH**



Code **USG3SS**



Code **USG3SS-SL-SC**  
Without securing screws  
Code **USG3SS-SL-NSC**

*Gullies without securing screws allow for easier access  
Do not pour drain cleaner down these products*

Gullies for use with Sheet Flooring

# Gullies for use with Tiled or Stone Floors where a Waterproofing

## Trapped Gullies

150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws

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



Code **TSG1T6SS**

Without securing screws

Code **TSG1-T150SS**



Code **TSG1T6WH**



Code **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



Code **TSG50T6SS**

Without securing screws

Code **TSG50-T150SS**



Code **TSG50T6WH**



Code **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



Code **TSG52T6SS**

Without securing screws

Code **TSG52-T150SS**



Code **TSG52T6WH**



Code **TSG52-R125SS**

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



Code **TSG2T6SS**

Without securing screws

Code **TSG2-T150SS**



Code **TSG2T6WH**



Code **TSG2-R125SS**

*Gullies without securing screws allow for easier access*



150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws

150mm Square White ABS Tile with removable Grid

125mm Diameter Polished Stainless Steel Grating with removable Grid

**50mm Water Seal Trap** with 1½" BS EN 1329-1:2000 solvent weld side inlet for waste pipe and 110mm or 1½" solvent weld vertical outlet. Overall height 130mm



Code **TSG3T6SS**

Without securing screws

Code **TSG3-T150SS**



Code **TSG3T6WH**



Code **TSG3-R125SS**

### Untrapped Gullies

150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws



**Untrapped Gully** with 22mm horizontal plain outlet for use with pumped waste. Overall height 46mm

Code

**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 70mm

**USG2T6SS**

Without securing screws

**USG2-T150SS**



**Untrapped Gully** with 1½" BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 75mm

**USG3T6SS**

Without securing screws

**USG3-T150SS**

*Gullies without securing screws allow for easier access*

**Do not pour drain cleaner down these products**

■ For separate Tiles and Gratings see page 40

## Two-Piece Gully and Gully with Non-Return Valve

- Two-piece gullies can be used in all floors but they 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 32-38 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 **TSG52T6SS**



Code **VSG1WH-NSC**

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

## SECTION 2

- 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 sometime, 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 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.  
Overall height 75mm

	Code
With securing screws	<b>VSG1WH</b>
Without securing screws	<b>VSG1WH-NSC</b>



**Two-Piece Gully, White Plastic Clamp Ring with Cover Plate** and 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.  
Overall height 85mm

With securing screws	<b>VSG52WH</b>
Without securing screws	<b>VSG52WH-NSC</b>



**150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws** 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.  
Overall height 75mm

	<b>VSG1T6SS</b>
--	-----------------



**150mm Square White ABS Tile with removable Grid** and 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.  
Overall height 75mm

	<b>VSG1T6WH</b>
--	-----------------

*Gullies without securing screws allow for easier access*

*Do not pour drain cleaner down these products*

## 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** 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.  
Overall height 85mm

Code **VSG52T6SS**



**Two-Piece Gully, 150mm Square White ABS Tile with removable Grid** and 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.  
Overall height 85mm

Code **VSG52T6WH**

## 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 1½" socket reducer. Chrome plated 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 1½" socket reducer. Chrome plated 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 1½" socket reducer. Chrome plated brass clamp ring with polished stainless steel anti-ligature grating.  
Overall height 100mm

Code **TSG52-ANTI/LIG**



**75mm Water Seal Trap** with 110mm vertical outlet and 110mm x 2" BS EN 1329-1:2000 solvent weld reducer. Chrome plated 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

## SECTION 2



**19mm Water Seal Trap** with 1½" Multifit outlet, white plastic clamp ring and cover plate with securing screws.  
Overall height 138mm

Code **TSG1WH-STW1R**



**50mm Water Seal Trap** with 1½" x 90° swivel Multifit outlet bend, white plastic clamp ring and cover plate with securing screws.  
Overall height 138mm

Code **TSG1WHSTW295**



**50mm Water Seal Resealing Trap** with 1½" x 90° swivel Multifit outlet bend, white plastic clamp ring and cover plate with securing screws.  
Overall height 167mm

Code **TSG1WH-STW2R**



**19mm Water Seal Trap** with 1½" Multifit outlet, 150mm square polished stainless steel tile with removable grid and securing screws.  
Overall height 138mm

Code **TSG1T6SS+STW1R**



**50mm Water Seal Trap** with 1½" x 90° swivel Multifit outlet bend, 150mm square polished stainless steel tile with removable grid and securing screws.  
Overall height 138mm

Code **TSG1T6SSTW295**



**50mm Water Seal Resealing Trap** with 1½" x 90° swivel Multifit outlet bend, 150mm square polished stainless steel tile with removable grid and securing screws.  
Overall height 167mm

Code **TSG1T6SS-STW2R**

## Tiles and Gratings



**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

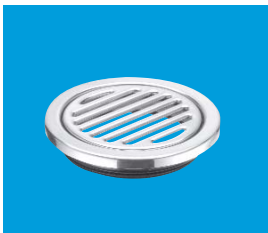
**MDTOP-WH**



**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**

# 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<sup>2/3</sup>" 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<sup>1/2</sup>" ABS/PVC pipe, internal fit or 2" ABS/PVC pipe, external fit. Overall height 152mm

For Tiles and Gratings see page 40

Code	<b>MD100</b>
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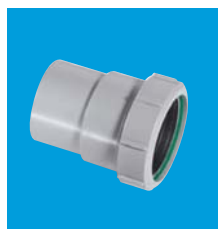


**Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully** manufactured in grey ABS with 3" solvent weld horizontal outlet. Height can be extended by solvent welding length of 110mm PVC pipe between gully body and tile. Inlet connections are for solvent welding to 1<sup>1/2</sup>" ABS/PVC pipe,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

For Tiles and Gratings see page 40

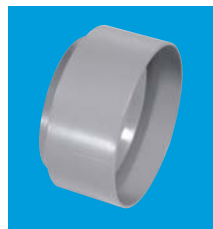
Code	<b>MD100-3</b>
------	----------------

## Adaptors for Inlet and Outlet Connections



**Multi-Drain Inlet Fitting**  
2" solvent weld x 2" universal compression

Code	<b>MD200</b>
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**Multi-Drain Outlet Fitting**  
3" solvent weld x 110mm solvent weld

Code	<b>MD400</b>
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## Untrapped Gullies with Top Access for Tiled Floors



**Untrapped Gully** with 1<sup>1/2</sup>" 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	<b>FD90-T6SS</b>
------	------------------



**Untrapped Gully** with 1<sup>1/2</sup>" BS EN 1329-1:2000 solvent weld horizontal outlet and 150mm square white ABS tile with removable grid. Overall height 68mm

Code	<b>FD90-T6WH</b>
------	------------------

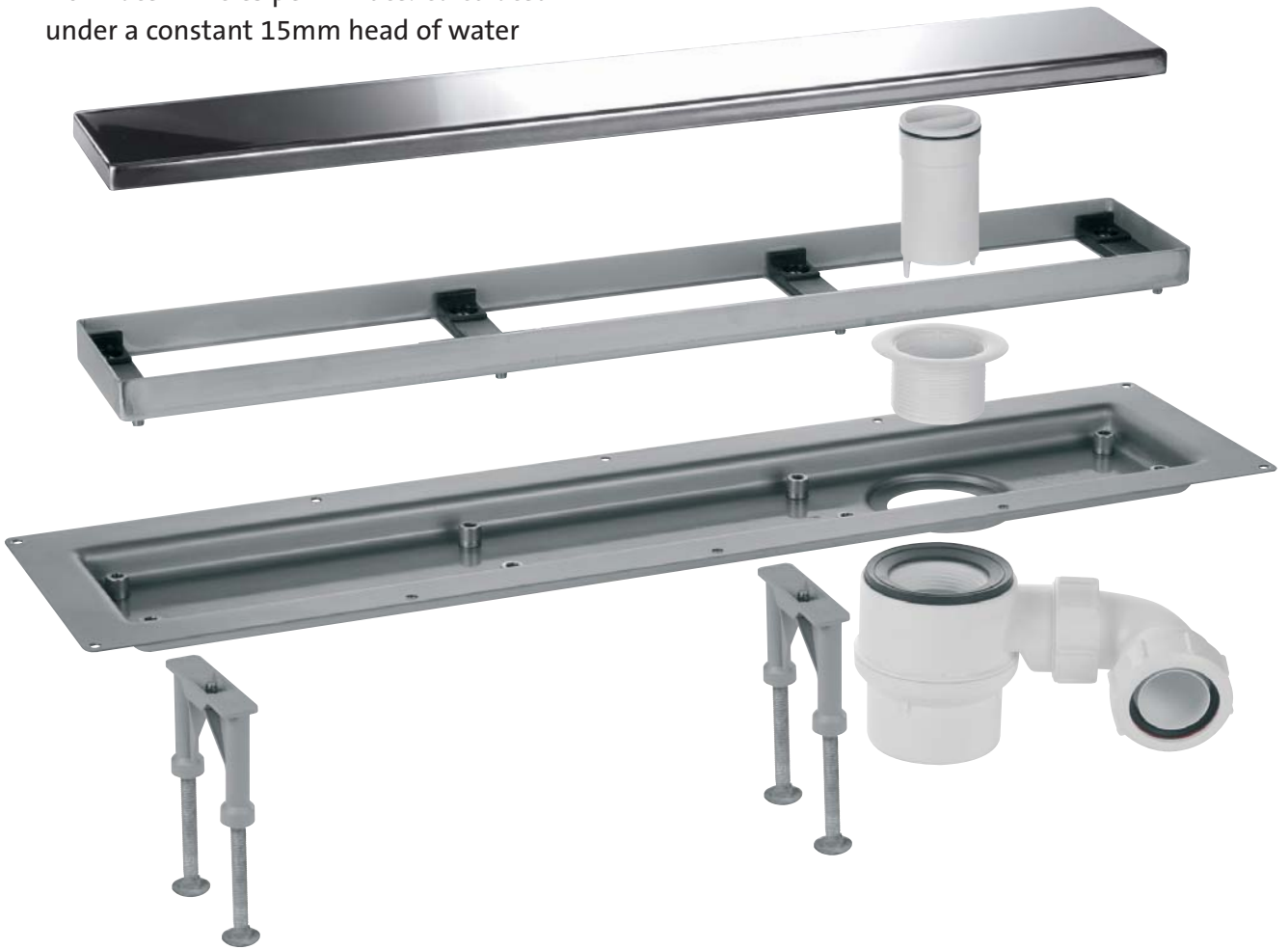
*Do not pour drain cleaner down these products*

# 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 24 litres per minute. Calculated under a constant 15mm head of water

- Supplied with adjustable height support legs for concrete floor installations. Adjustable height 124-168mm

Dimensions:	CD600	CD800
Length of channel frame:	548mm	748mm
Width of channel frame:	88mm	88mm
Overall height:	28mm	28mm
Overall height with trap:	124mm	124mm



Channel Drain for Tiled Floors



**Channel Drain** with brushed finish cover plate

Code **CD600-B**

Code **CD800-B**



**Channel Drain** with polished finish cover plate

Code **CD600-P**

Code **CD800-P**



**Channel Drain Cover Plate** brushed finish

Code **COV600-B**

Code **COV800-B**



**Channel Drain Cover Plate** polished finish

Code **COV600-P**

Code **COV800-P**



# Tile Drain for Wet Floor Areas

- Tiles suitable for 50mm water seal traps as illustrated
- Plain tile supplied with brushed or polished finish, designer tiles supplied in brushed finish only. 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



**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



Code **TILE-PLAIN-B**



Code **TILE-PLAIN-P**



Code **TILE-LOVE-B**



Code **TILE-MAC-B**



Code **TILE-SOLEIL-B**



Code **TILE-TRIBAL-B**

*Do not pour drain cleaner down these products*

# 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

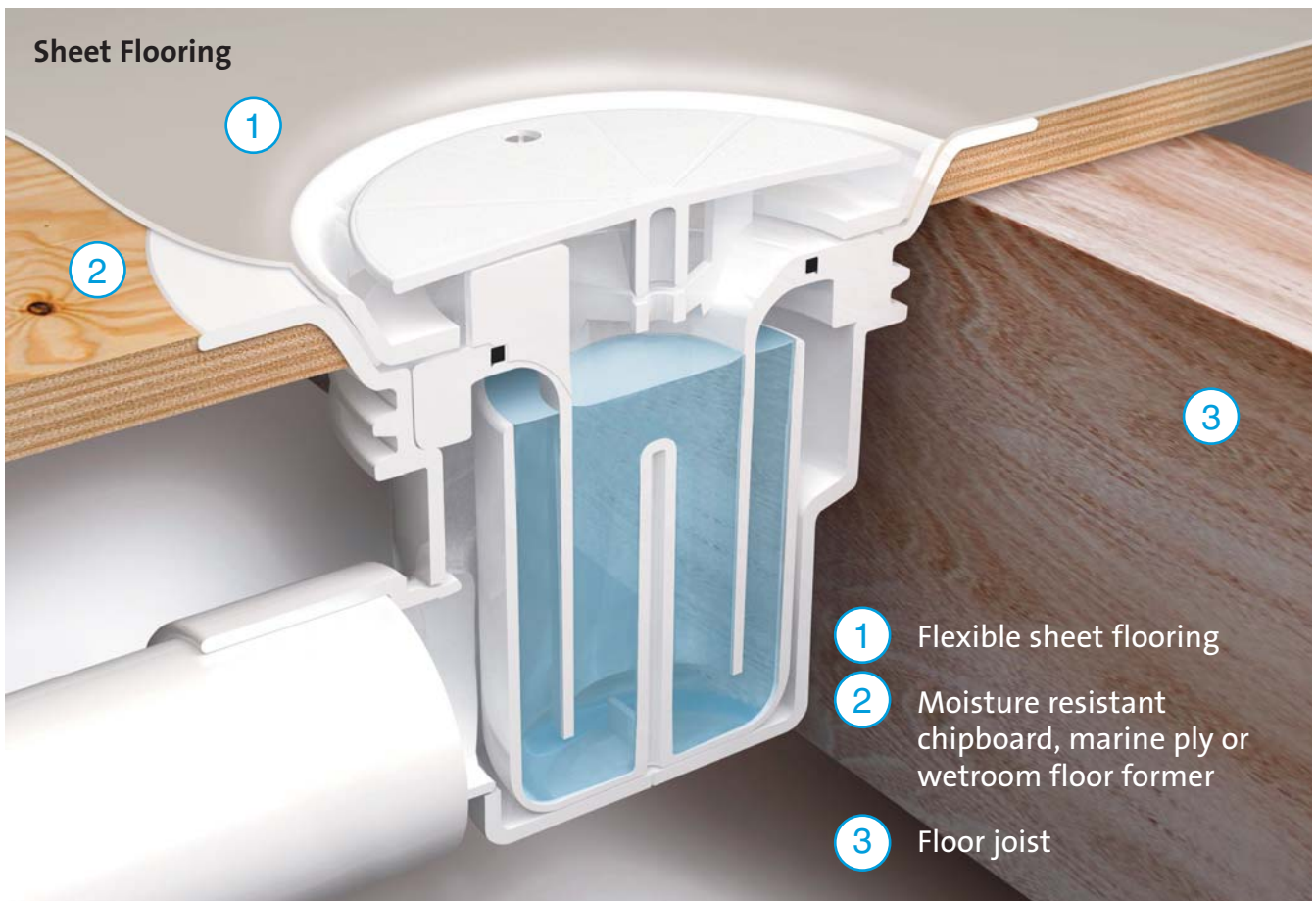
- Set the gully into the floor and ensure that the top surface of the gully flange is flush with, or slightly below, the floor surface on which the flooring is to be laid
- Ensure the gully body is fully supported, do not rely solely on the gully flange for support
- A watertight seal between the underside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

## Tiled Floors

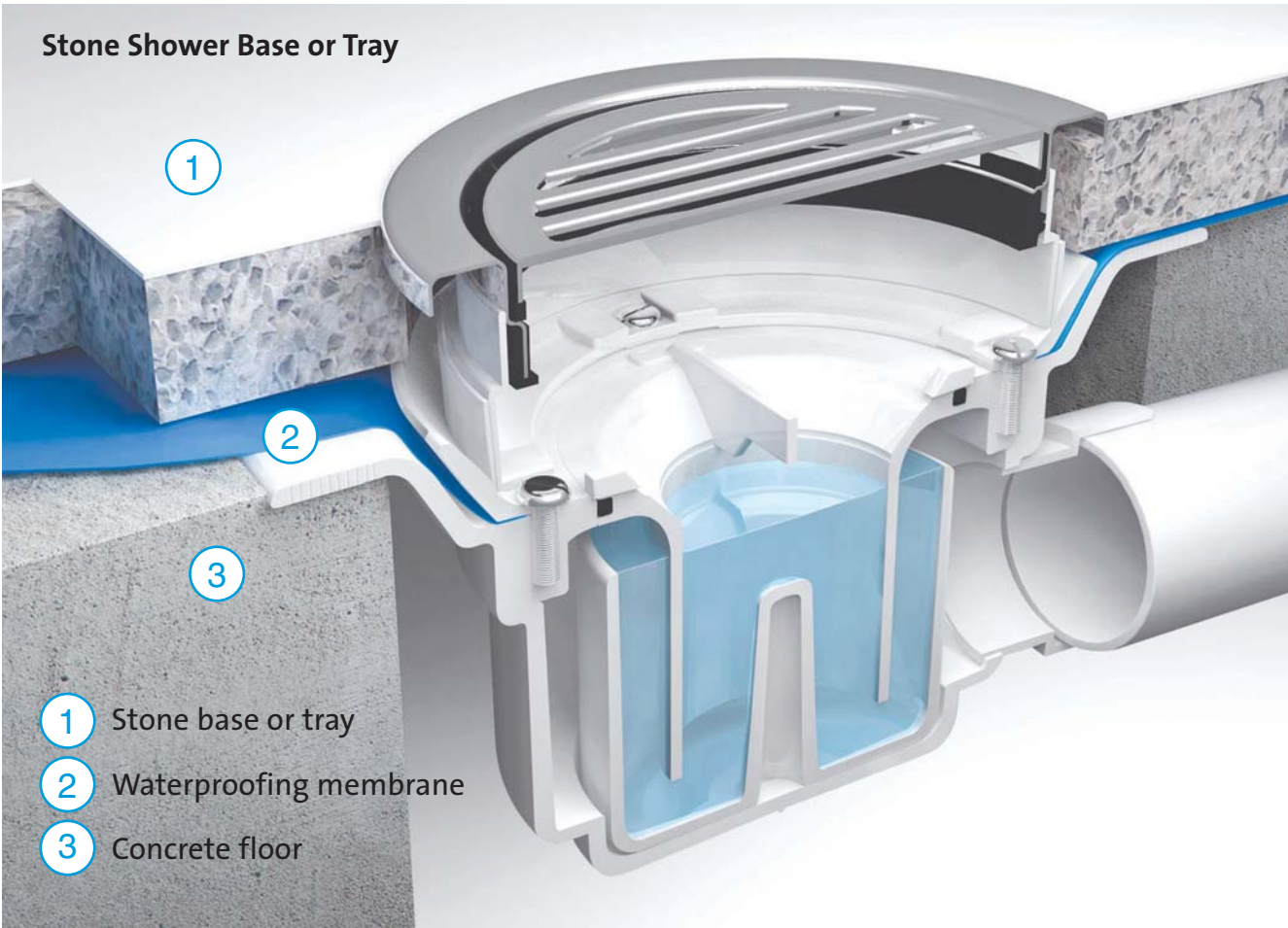
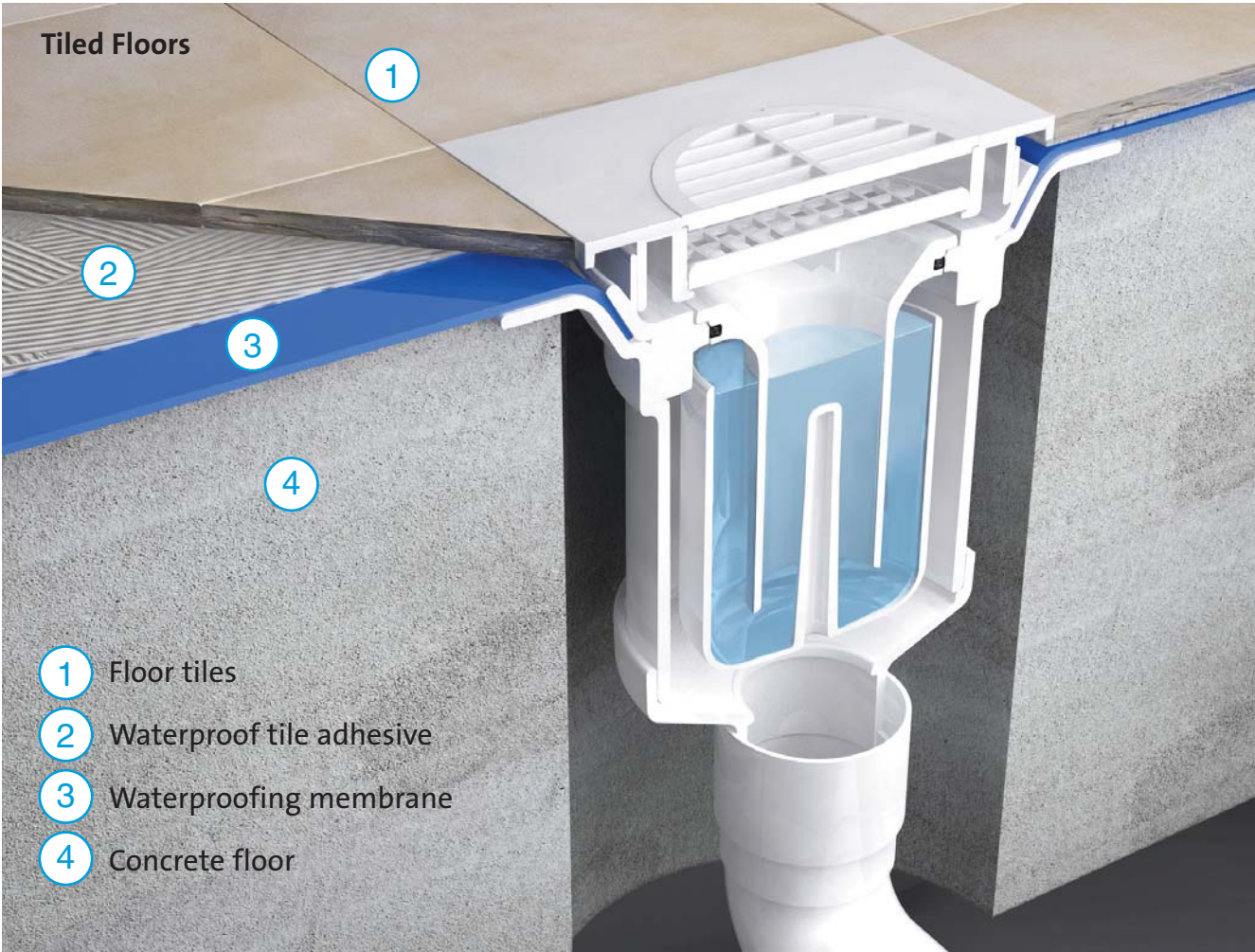
- The minimum dimension between the gully flange and top surface of the gully tile or grating, which requires to be flush with the flooring, is 13mm. This dimension cannot be reduced but if required the gully tile or grating can be raised. To do this remove the centre from the dust cap/extension ring 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







### 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**

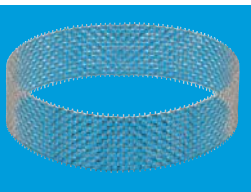
### Stopper for TSG Dip Tubes



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**

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

**Converts any TSG1 or TSG2 Gully** 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**



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

**M'ALPINE**  
Plumbing Products










SECTION

3




Plastic Waste Pipe, Fittings and Drain Connectors


# Multifit Waste Fittings


	1¼" Code	1½" Code	2" Code
			
<b>90° Bend</b>			
	<b>MS4</b>	<b>MT4</b>	<b>MZ4</b>
			
<b>90° Bend Multifit x European pipe size</b>			
x 32mm	x 40mm	x 50mm	
<b>MS4-ISO</b>	<b>MT4-ISO</b>	<b>MZ4-ISO</b>	
			
<b>90° Bend Multifit x 32mm European pipe size ring seal pushfit</b>			
<b>MS4-32MM</b>	-	-	
			
<b>90° Bend ABS solvent weld x 32mm European pipe size ring seal pushfit</b>			
<b>MS4-32SOLVENT</b>		-	
			
<b>90° Bend Multifit x plain end*</b>			
<b>MS4L</b>	<b>MT4L</b>	<b>MZ4L</b>	
			
<b>135° Bend</b>			
<b>MS20</b>	<b>MT20</b>	<b>MZ20</b>	
			
<b>135° Bend Multifit x plain end*</b>			
<b>MS20L</b>	<b>MT20L</b>	<b>MZ20L</b>	
			
<b>Straight Connector</b>			
<b>S28M</b>	<b>T28M</b>	<b>Z28M</b>	
			
<b>Straight Connector 1¼" x 1½"</b>			
-	<b>ST28M</b>	-	


	1¼" Code	1½" Code	2" Code
			
<b>Straight Connector Multifit x European pipe size</b>			
x 32mm	x 40mm	x 50mm	
<b>S28L-ISO</b>	<b>T28L-ISO</b>	<b>Z28L-ISO</b>	
x 40mm	-	-	
<b>ST28L-ISO</b>	-	-	
			
<b>Adjustable Straight Connector</b>			
<b>MS18E</b>	<b>MT18E</b>	<b>MZ18E</b>	
			
<b>Straight Connector Multifit x plain end*</b>			
<b>MS18L</b>	<b>MT18L</b>	-	
			
<b>Swept Tee</b>			
<b>V8M</b>	<b>V1M</b>	<b>V15M</b>	
			
<b>1½" Equal Slip Tee with universal connections</b>			
-	<b>V1MX</b>	-	
			
<b>Reducer for Fittings*</b>			
1½" x 1¼"	<b>T12M</b>	-	
2" x 1¼"	-	<b>ZS26L</b>	
2" x 1½"	-	<b>ZT26L</b>	
			
<b>2" x 19/23mm</b>	-	<b>TUN-2</b>	


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


	1¼"	1½"	2"
	Code	Code	Code
	<b>Reducer in ABS*</b> 1¼" plain tail to BS EN 1329-1:2000 x 19/23mm universal connection		
	<b>R16</b>	-	-


	<b>Reducer in ABS*</b> 1½" plain tail to BS EN 1329-1:2000 x 19/23mm universal connection		
	-	<b>R17</b>	-


	<b>Rubber Reducer</b> 1¼" x 1"/28mm		
	<b>T12R</b>	-	-


	<b>Straight Connector</b> Multifit x BSP female thread		
	<b>S29</b>	<b>T29</b>	<b>Z29</b>


	<b>Straight Connector</b> Multifit x BSP coupling nut		
	<b>S29-LN</b>	<b>T29-LN</b>	-

	<b>90° Bend</b> Multifit x BSP coupling nut		
	<b>S5M</b>	<b>T5M</b>	<b>Z5M</b>

	<b>95° Bend</b> Multifit x BSP coupling nut		
	<b>S5M-A</b>	<b>T5M-A</b>	-


	<b>135° Bend</b> Multifit x BSP coupling nut		
	-	<b>ST90-OUT</b>	-


	1¼"	1½"	2"
	Code	Code	Code
	<b>Straight Connector</b> BSP male thread x Multifit		
	<b>S31M</b>	<b>T31M</b>	-


	<b>Multifit Tank Connector</b>		
	<b>S11M</b>	<b>T11M</b>	<b>Z11M</b>

	<b>Multifit Bent Tank Connector</b>		
	<b>MS4-TANK MT4-TANK MZ4-TANK</b>		

	<b>Blanking Cap</b> for Multifit fittings		
	<b>S23M</b>	<b>T23M</b>	<b>Z23M</b>

	<b>Blanking Cap</b> for waste pipe with universal connection		
	<b>S23U</b>	<b>T23U</b>	<b>Z23U</b>

	<b>2" Caulking Ferrule</b>		
	<b>S21A</b>	<b>T21A</b>	<b>Z21A</b>

	<b>In-Line Connector with Filter - Top Access</b> universal connection x ABS plain spigot BS EN 1329-1:2000		
	-	<b>T28M-FIL</b>	-

	<b>Loose Nut</b>		
	<b>S8M</b>	<b>T8M</b>	<b>Z8M</b>



# Flexible Waste Fittings and Non-Return Valves

**Flexible Connector** offers maximum flexibility when conventional fittings cannot be used

- Maximum effective length 18"
- Plain spigot to suit Multifit and universal outlet traps or waste fittings
- Universal outlet connection



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

## Flexible Fittings

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



## Universal Connection x Universal Connection

FLEXCON3	FLEXCON4	FLEXCON7

## Universal Connection x PVC Plain Spigot

suitable for solvent welding to pipe  
BS EN 1329-1:2000

FLEXCON5	FLEXCON6	FLEXCON8

## Non-Return Valves



1¼" Code	1½" Code	2" Code
-	T28M-NRV	-

**In-Line Non-Return Valve** with 1½" universal connections and top access for cleaning



1¼" Code	1½" Code	2" Code
-	-	Z28M-NRV

**In-Line Non-Return Valve** with 2" universal connections and top access for cleaning




1¼" Code	1½" Code	2" Code
-	-	Z28M-NRVS


**In-Line Non-Return Valve** with 2" BS EN 1329-1:2000 solvent weld connections and top access for cleaning

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





### Sundry Fittings


	1 1/4"	1 1/2"	2"
	Code	Code	Code
	<b>90° Bend</b> with BSP male thread x BSP coupling nut		
	<b>S1</b>	<b>T1</b>	<b>Z1</b>


	<b>BSP Nut</b> ordinary		
	<b>S8A</b>	<b>T8A</b>	<b>Z8A</b>
	<b>BSP Nut</b> compression		
	<b>S8B</b>	<b>T8B</b>	<b>Z8B</b>

	<b>Compression Ring for Imperial Copper</b>		
	<b>S13</b>	<b>T13</b>	-


	<b>BSP Coupling</b> to BS EN 1329-1:2000 ABS or PVC pipe, must be solvent welded		
	<b>S25</b>	<b>T25</b>	-

	<b>Trap Inlet Reducer</b>		
	1 1/4" x 1"		
	<b>S16</b>	-	-
	1 1/2" x 1 1/4"	<b>T16</b>	-


	<b>Blank Cap</b> with nut for BSP threads		
	<b>S23</b>	<b>T23</b>	<b>Z23</b>


	<b>7" Extension Piece</b> effective length 5". Available longer or shorter on application		
	<b>S22L</b>	<b>T22L</b>	-


### BSP Female x BSP Male Couplings


	1 1/4"	1 1/2"
	Code	Code
	<b>BSP Coupling</b>	
1" length	<b>S12A-1</b>	<b>T12A-1</b>
2" length	<b>S12A-2</b>	<b>T12A-2</b>
3" length	<b>S12A-3</b>	<b>T12A-3</b>

	<b>BSP Coupling</b> flush spigot European to UK waste adaptor	
	<b>S12A-F</b>	<b>T12A-F</b>

	<b>BSP Coupling</b>		
	1 1/4" x 1"	<b>S12C</b>	-
	1" x 3/4"	<b>S12D</b>	-

	<b>BSP Coupling</b> waste outlet reducer		
	1 1/2" x 1 1/4"	-	<b>T12</b>


	<b>BSP Coupling</b>		
	1 3/4" x 1 1/2"	-	<b>T12B</b>
	2" x 1 1/2"	-	<b>T12C</b>
	2" x 1 1/4"	-	<b>T12D</b>
	1 1/2" x 1"	-	<b>T12H</b>

	<b>BSP Coupling</b>		
	1 1/2" x 2"	-	<b>T12E</b>
	1 1/2" x 1 3/4"	-	<b>T12F</b>


## Chrome Plated Brass Waste Pipe and Fittings


	32mm Code	35mm Code	42mm Code
	<b>1m length of CP Brass Pipe</b>		
	European pipe size	1¼" UK pipe size	1½" UK pipe size
	<b>PIPE32-1000-CB</b>	<b>PIPE35-1000-CB</b>	<b>PIPE42-1000-CB</b>
	<b>CP Pipe Clip</b>		
	<b>S32-CP</b>	<b>S35-CP</b>	<b>T42-CP</b>
	<b>90° Compression Bend</b>		
	<b>32A-CB</b>	<b>35A-CB</b>	<b>42A-CB</b>
	<b>135° Compression Bend</b>		
	-	<b>35B-CB</b>	<b>42B-CB</b>
	<b>Compression Tee</b>		
	-	-	<b>42E-CB</b>
	<b>Compression Straight Connector</b>		
	<b>32G-CB</b>	<b>35G-CB</b>	<b>42G-CB</b>
	<b>Wall Flange</b>		
	<b>WALLFLANGE-CP32</b>	<b>WALLFLANGE-CP35</b>	<b>WALLFLANGE-CP42</b>
	<b>Synthetic Rubber Seal Reducers</b> for above fittings		
		<b>R/SEAL-35X32</b>	<b>R/SEAL-42X32</b> <b>R/SEAL-42X35</b>
	<b>ABS Solvent Weld Adaptor</b> to convert above fittings to BS EN 1329-1:2000 plastic solvent weld waste pipe		
	<b>ABSCON-32X1.25</b>	<b>ABSCON-35X1.25</b>	<b>ABSCON-42X1.5</b>
	<b>90° Bend</b> 32/35mm compression CP brass x 1¼" ABS solvent weld		<b>90° Bend</b> 32mm European pipe size ring seal pushfit x 1¼" Multifit
	Code <b>ABS32/35A-CB</b>		Code <b>MS4-32MM</b>
	<b>Straight Connector</b> 32/35mm compression CP brass x 1¼" ABS solvent weld		<b>90° Bend</b> 32mm European pipe size ring seal pushfit x 1¼" ABS solvent weld
	Code <b>ABS32/35G-CB</b>		Code <b>MS4-32SOLVENT</b>


- For Multifit fittings suitable for use with 35mm and 42mm external diameter pipe see pages 48 and 49
- For Chrome Plated Traps see pages 6, 7 and 20


	1¼"	1½"	2"
	Code	Code	Code
<b>HDPE White Pipe</b> 3m lengths			
	<b>HD1-3M</b>	<b>HD2-3M</b>	<b>HD3-3M</b>


	<b>Pipe Clip</b>		
	<b>S30</b>	<b>T30</b>	<b>Z30</b>

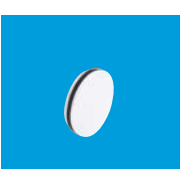
	<b>90° Bend</b>		
	<b>S4L</b>	<b>T4L</b>	<b>Z4L</b>


	<b>135° Bend</b>		
	<b>S20L</b>	<b>T20L</b>	-


	<b>Straight Connector</b>		
	<b>S18L</b>	<b>T18L</b>	<b>Z18L</b>


	<b>Straight Connector</b> Multifit x Surefit		
	<b>S28L</b>	<b>T28L</b>	<b>Z28L</b>


	<b>Reducer 1½" to 1¼"</b>		
	-	<b>T12L</b>	-


	<b>Blank Cap</b> without nut		
	<b>S23L</b>	<b>T23L</b>	<b>Z23L</b>


	<b>Reducer for Fittings</b>		
	2"-1¼"	1½"-1¼"	2"-1½"
	<b>S26L</b>	<b>T12S</b>	<b>T26L</b>


	1¼"	1½"
	Code	Code
<b>Swept Tee</b>		
	<b>V8L</b>	<b>V1L</b>


	<b>Swept Tee</b>	
	1½" x 1½" x 1¼"	-


	<b>Swept Tee</b> Surefit x 19mm pushfit branch		
	1½" x 1½" x ¾"	-	<b>V23L</b>
	1¼" x 1¼" x ¾"	<b>V24L</b>	-

	<b>Swept Tee</b> BSP nut x BSP thread x nozzle for discharge hose of domestic appliance		
	1½" x 1½" x ¾"	-	<b>V33L</b>
	1¼" x 1¼" x ¾"	<b>V34L</b>	-

	<b>Tee Piece</b> BSP nut x BSP thread x 135° nozzle for discharge hose of domestic appliance		
	1½" x 1½" x ¾"		<b>V33S</b>
	1¼"	1½"	2"
	Code	Code	Code

	<b>90° Connector</b> to soil pipe boss BS EN 1451-1:2000 size*	
	<b>S4M</b>	<b>T4M</b>

	<b>135° Connector</b> to soil pipe boss BS EN 1451-1:2000 size*	
	<b>S20M</b>	<b>T20M</b>

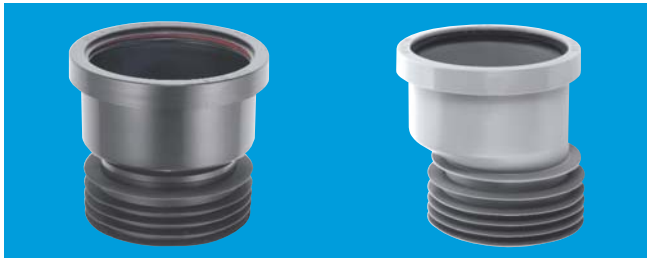
	<b>Straight Connector</b> to soil pipe boss BS EN 1451-1:2000 size*		
	<b>S18M</b>	<b>T18M</b>	<b>Z18M</b>

	<b>Wall Flange</b> for HDPE pipe		
	<b>S17</b>	<b>T17</b>	-

- \*BS 5254 size - if connecting to boss size BS 5255 add 5255 to code e.g. S4M 5255
- Surefit waste fittings only suitable for M<sup>c</sup>Alpine HDPE waste pipe

# Drain Connectors and Blanking Off Caps

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



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

Code (Black)	<b>DC1-BL</b>
--------------	---------------

Code (Grey)	<b>DC1-GR</b>
-------------	---------------

With 14mm offset

Code (Black)	<b>DC1BL-OS</b>
--------------	-----------------

Code (Grey)	<b>DC1GR-OS</b>
-------------	-----------------

## 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

Code (Black)	<b>DC1-BL-BO</b>
--------------	------------------

Code (Grey)	<b>DC1-GR-BO</b>
-------------	------------------

## Drain Connector 90° Bend

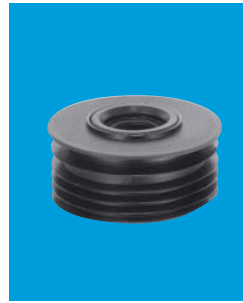


**90° Bend 4"/110mm x 4"/110mm** with 'O' seal socket to fit 4"/110mm pipe to BS 4514

Code (Black)	<b>DC90-BL</b>
--------------	----------------

Code (Grey)	<b>DC90-GR</b>
-------------	----------------

- Ideal for low level connections
- Reducers allow for connection to BS EN 1451-1:2000 and BS EN 1329-1:2000 pipe



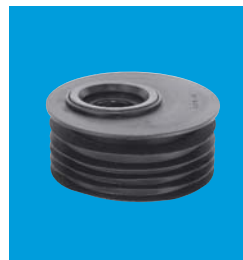
### 4"/110mm Reducer

**Connector** with sealing ring to fit to plastic waste pipe

	Code
--	------

1¼" and 1½"	<b>DC2-BL</b>
-------------	---------------

2"	<b>DC3-BL</b>
----	---------------



### 4"/110mm Reducer

**Connector** with offset sealing ring to fit to plastic waste pipe

1¼" and 1½"	<b>DC2BL-OS</b>
-------------	-----------------

2"	<b>DC3BL-OS</b>
----	-----------------



### 4"/110mm Blanking Cap

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

Code	<b>DC4-BL</b>
------	---------------

## Temporary Blanking Off Caps



**Synthetic Rubber Cap** for sealing 110mm pipe

Code	<b>CAP100</b>
------	---------------



1¼"	1½"	2"
Code	Code	Code

**Synthetic Rubber Cap** for waste pipe

<b>S23MR</b>	<b>T23MR</b>	<b>Z23MR</b>
--------------	--------------	--------------



- Suitable for waste water and condensate discharge
- Simple dry fixing mechanical connection

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



- |                     |      |                        |
|---------------------|------|------------------------|
| 4"/110mm x 1¼" pipe | Code | <b>BOSSCONN110-BL</b>  |
| 4"/110mm x 1½" pipe | Code | <b>BOSSCONN110T-BL</b> |
| 4"/110mm x 2" pipe  | Code | <b>BOSSCONN110Z-BL</b> |
| 3"/82mm x 1¼" pipe  | Code | <b>BOSSCONN82-BL</b>   |
| 3"/82mm x 1½" pipe  | Code | <b>BOSSCONN82T-BL</b>  |
| 3"/82mm x 2" pipe   | Code | <b>BOSSCONN82Z-BL</b>  |



- |                     |      |                        |
|---------------------|------|------------------------|
| 4"/110mm x 1¼" pipe | Code | <b>BOSSCONN110-GR</b>  |
| 4"/110mm x 1½" pipe | Code | <b>BOSSCONN110T-GR</b> |
| 4"/110mm x 2" pipe  | Code | <b>BOSSCONN110Z-GR</b> |
| 3"/82mm x 1¼" pipe  | Code | <b>BOSSCONN82-GR</b>   |
| 3"/82mm x 1½" pipe  | Code | <b>BOSSCONN82T-GR</b>  |
| 3"/82mm x 2" pipe   | Code | <b>BOSSCONN82Z-GR</b>  |

- Universal connection for pushfit or solvent weld waste pipe
- All boss connectors supplied with fixing tool

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



- |                     |      |                        |
|---------------------|------|------------------------|
| 4"/110mm x 1¼" pipe | Code | <b>BOSS110CAST-BL</b>  |
| 4"/110mm x 1½" pipe | Code | <b>BOSS110TCAST-BL</b> |
| 3½"/90mm x 1¼" pipe | Code | <b>BOSS90CAST-BL</b>   |
| 3½"/90mm x 1½" pipe | Code | <b>BOSS90TCAST-BL</b>  |
| 3"/82mm x 1¼" pipe  | Code | <b>BOSS82CAST-BL</b>   |
| 3"/82mm x 1½" pipe  | Code | <b>BOSS82TCAST-BL</b>  |

### Mechanical Soil and Rainwater Pipe Boss Connectors



- Mechanical Soil and Rainwater Pipe Boss Connector** for 1¼" pipe
- |      |                       |
|------|-----------------------|
| Code | <b>BOSSCONN1.25BL</b> |
| Code | <b>BOSSCONN1.25GR</b> |



- Reducer in ABS** 1¼" plain tail x 19/23mm universal connection
- |      |               |
|------|---------------|
| Code | <b>R16-BL</b> |
| Code | <b>R16-GR</b> |



- Mechanical Soil and Rainwater Pipe Boss Connector** for 19/23mm pipe
- |      |                      |
|------|----------------------|
| Code | <b>BOSSCONN-22MM</b> |
|------|----------------------|

### Threaded Boss Connectors



- Straight Connector** 2" BSP male thread x Multifit
- |                       |              |
|-----------------------|--------------|
| 2" BSP x 1¼" Multifit | <b>ZS31M</b> |
| 2" BSP x 1½" Multifit | <b>ZT31M</b> |
| 2" BSP x 2" Multifit  | <b>Z31M</b>  |

### 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**



# Plastic Overflow Pipe and Fittings

SECTION

4



Plastic Overflow Pipe and Fittings

## 3/4" Overflow Pipe, Pushfit and Universal Fittings



	Code
<b>HDPE White Overflow Pipe</b> 3/4" x 3m lengths	
	<b>R-3M</b>



<b>Straight Connectors</b>	
3/4" pushfit	<b>R1</b>
19/23mm universal	<b>R1M</b>



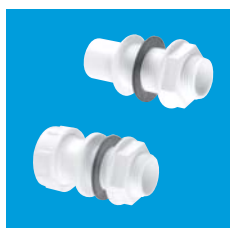
<b>90° Bends</b>	
3/4" pushfit	<b>R2</b>
19/23mm universal	<b>R2M</b>



<b>135° Bends</b>	
3/4" pushfit	<b>R2A</b>
19/23mm universal	<b>R2AM</b>



<b>Tees</b>	
3/4" pushfit	<b>R3</b>
19/23mm universal	<b>R3M</b>



<b>Straight Tank Connectors</b>	
3/4" pushfit	<b>R4</b>
19/23mm universal	<b>R4M</b>



	Code
<b>Bent Tank Connectors</b>	
3/4" pushfit	<b>R5</b>
19/23mm universal	<b>R5M</b>



<b>Bent Tank Connector</b> 3/4" BSP threaded outlet	
	<b>FTC1AWH</b>



<b>Straight Female Coupling</b> with fixed nut	
	<b>R6</b>



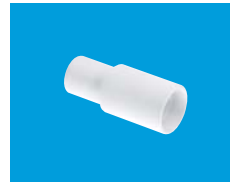
<b>Straight Female Coupling</b> with loose nut	
	<b>R6A</b>



<b>Straight Female Coupling</b> with fixed nut for converting male BSP outlets to pushfit fittings	
	<b>R7</b>



<b>90° Female Coupling</b> with loose nut	
	<b>R8A</b>



<b>ABS Adaptor</b> to convert 19mm connections up to 23mm OD pipe	
	<b>R13</b>



<b>Reducer in ABS</b> 1 1/4" plain tail to BS EN 1329-1:2000 x 19/23mm universal connection	
	<b>R16</b>













<b>Reducer in ABS</b> 1 1/2" plain tail to BS EN 1329-1:2000 x 19/23mm universal connection	
	<b>R17</b>



Code **R1M**

Code **R2**



	1 1/4" Code	1 1/2" Code
 <b>HDPE White Pipe</b> 3m lengths	<b>HD1-3M</b>	<b>HD2-3M</b>
 <b>Pipe Clip</b>	<b>S30</b>	<b>T30</b>
 <b>90° Bend</b>	<b>S4A</b>	<b>T4A</b>
 <b>90° Knuckle Bend</b>	<b>S4E</b>	<b>T4E</b>
 <b>90° Bend x BSP coupling nut</b>	<b>S5</b>	<b>T5</b>
 <b>Straight Connector</b>	<b>S18</b>	<b>T18</b>
 <b>Tee</b>	<b>V8</b>	<b>V1</b>
 <b>Adaptor</b>	<b>S7</b>	<b>T7</b>
 <b>BSP Nut ordinary</b>	<b>S8A</b>	<b>T8A</b>
 <b>BSP Screwed Adaptor</b>	<b>S9</b>	<b>T9</b>

## 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"

1 1/4" x 70mm flange x 3 1/2" tail Code	<b>SWL-18</b>
--	---------------

1 1/2" x 70mm flange x 3 1/2" tail Code	<b>TWL-18</b>
--	---------------

1 1/4" x 70mm flange x 1 1/2" tail Code	<b>SWS-18</b>
--	---------------

1 1/2" x 70mm flange x 1 1/2" tail Code	<b>TWS-18</b>
--	---------------

## Tank Overflow



### Unslotted Waste without Grid

1 1/4" x 70mm flange x 3 1/2" tail Code	<b>W10</b>
--	------------

1 1/2" x 70mm flange x 3 1/2" tail Code	<b>W20</b>
--	------------

1 1/4" x 70mm flange x 1 1/2" tail Code	<b>W11</b>
--	------------

1 1/2" x 70mm flange x 1 1/2" tail Code	<b>W21</b>
--	------------



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



3/4" Code	1" Code	1 1/4" Code	1 1/2" 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 compression joint to pipe

R32	-	-	-	-
-----	---	---	---	---



**Tank Lid Adaptor** for expansion pipe

R33	-	-	-	-
-----	---	---	---	---



**2 Way Expansion Pipe Adaptor**

R34	-	-	-	-
-----	---	---	---	---



**Tank Connector**

R4M	H11M	S11M	T11M	Z11M
-----	------	------	------	------



3/4" Code	1" Code	1 1/4" Code	1 1/2" Code	2" Code
--------------	------------	----------------	----------------	------------

**Complete 3/4" BL30 Kit** comprising R30, R31, R33

<b>BL30-3/4</b>	-	-	-	-
-----------------	---	---	---	---



**Screened Breather/Filter/Frost Cover** with compression joint to pipe

-	-	<b>SWLFCV</b>	<b>TWLFCV</b>	-
---	---	---------------	---------------	---



**In-Line Screened/Filter Pipe Coupling**

<b>RWILF</b>	<b>HWILF</b>	<b>SWILF</b>	<b>TWILF</b>	<b>ZWILF</b>
--------------	--------------	--------------	--------------	--------------



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

-	-	<b>S5</b>	<b>T5</b>	<b>Z5M</b>
---	---	-----------	-----------	------------



**90° Multifit x Plain End**

-	-	<b>MS4L</b>	<b>MT4L</b>	<b>MZ4L</b>
---	---	-------------	-------------	-------------



**90° Multifit Bend**

-	-	<b>MS4</b>	<b>MT4</b>	<b>MZ4</b>
---	---	------------	------------	------------

# Tun Dishes and Non-Return Valves

## Tun Dishes



**Tun Dish** with 3/4" pushfit outlet

Code

**TUN-1**



**Tun Dish** with 19/23mm universal outlet

**TUN-2**



**One-Piece Side Inlet Tun Dish** with 19/23mm universal outlet

**TUN-3**

Chrome plated **TUN-3CP**



**One-Piece Tun Dish** with 3/4" loose nut inlet x 19/23mm universal outlet

**TUN-4**

Chrome plated **TUN-4CP**



**One-Piece Tun Dish** with 19/23mm universal inlet x 1 1/4" universal outlet

**TUN-6**

## Non-Return Valves for WC Overflow



**Tunvalve (Clear)** with 3/4" female threaded inlet connection to WC overflow outlet x 19/23mm universal outlet

Code

**TUNVALVE**



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

Code

**TUN5-CL**

## Non-Return Valves



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

Code

**R28-NRV**



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

Code

**R29-NRV**

## In-Line Non-Return Valves



**Convolve Non-Return Valve** with 1 1/4" universal connections to take pressure-relief discharge from pressurised hot water cylinders

Code

**CONVALVE-125**



**Convolve Non-Return Valve** with 1 1/4" plain tail x 1 1/4" universal outlet to take pressure-relief discharge from pressurised hot water cylinders

Code

**CONVALVE-125P**

**WC Overflow Kits with Tun Dish - Overflow into Flush Pipe**

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



**WC Overflow Kit** comprises TUN-2, V33T, 90° pushfit elbow and two 3/4" x 12" lengths of overflow pipe

■ Not suitable for use with high level cisterns

Code **TUNKIT-1**

**WC Overflow Kit** comprises TUN-3, V33T, 90° pushfit elbow and two 3/4" x 12" lengths of overflow pipe

■ Not suitable for use with high level cisterns

Code **TUNKIT-3**

**Tee Pieces**



**Tee Piece** 1 1/2" BSP nut x 1 1/2" universal x 19/23mm universal connection

■ Not suitable for use with high level cisterns

Code **V33T**



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

■ Not suitable for use with high level cisterns

Code **V33T-FP**



**Tee Piece** 1 1/2" BSP nut x 1 1/2" BSP thread x 19/23mm universal connection

■ Not suitable for use with high level cisterns

Code **V33S-22**



Code **TUN-3CP**



Code **TUNVALVE**





**WC Connectors**  
**MACFIT, Flexible and Rigid**

SECTION

5



WC Connectors, MACFIT, Flexible and Rigid

# WC Connectors

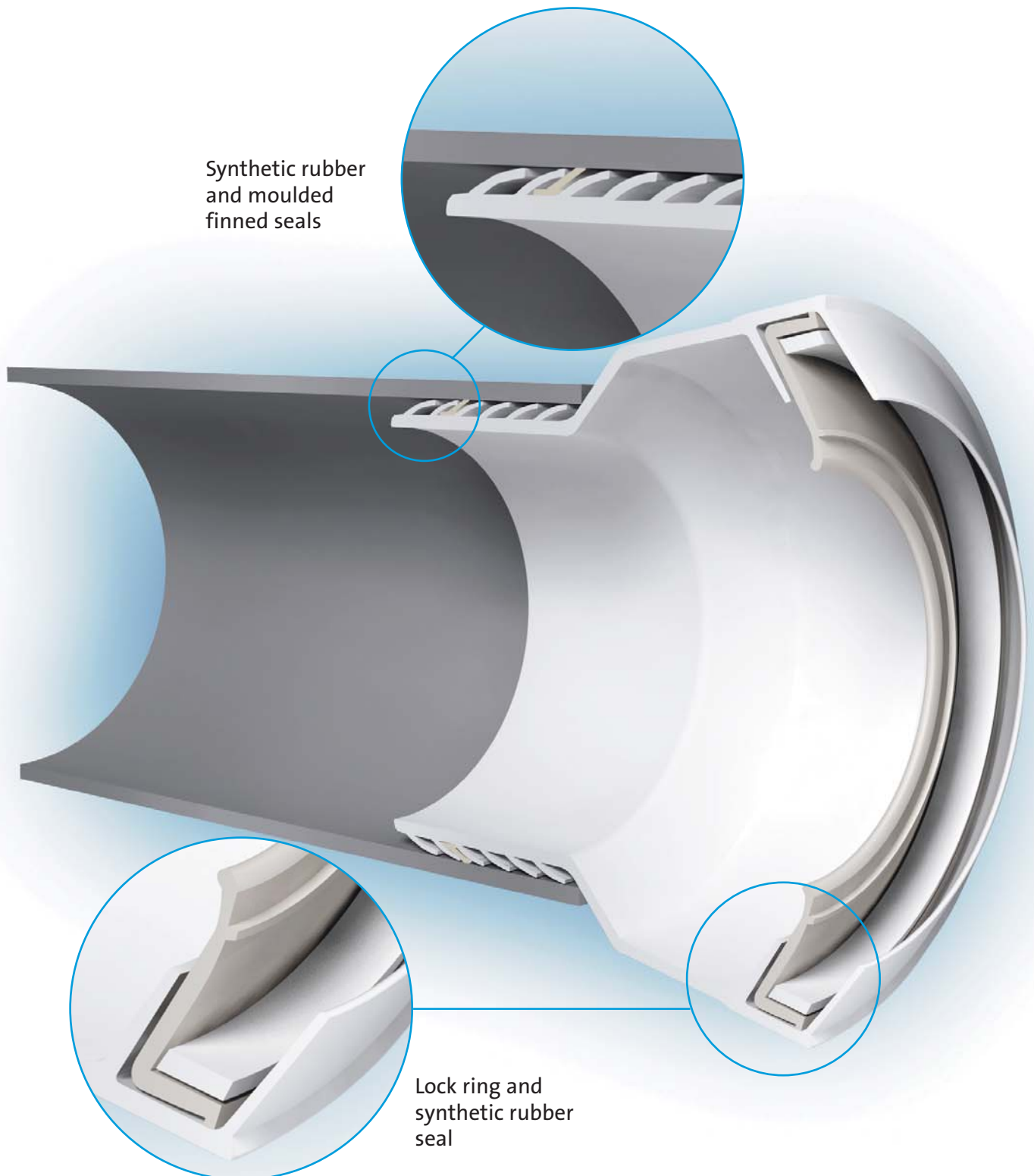
## WC Connectors General

- M<sup>c</sup>Alpine is the only European manufacturer to offer EVA (ethylene vinyl acetate), rigid polypropylene and flexible polypropylene WC connectors
- 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

MACFIT WC Connectors





**Straight**  
90-112mm Inlet  
4"/110mm Outlet

Code **MAC-1**



**Straight**  
90-112mm Inlet  
3 1/2"/90mm Outlet

Code **MAC-3**



**Straight**  
90-112mm Inlet  
3"/75mm Outlet

Code **MAC-3C**



**20mm Offset**  
90-112mm Inlet  
4"/110mm Outlet

Code **MAC-4**



**40mm Offset**  
90-112mm Inlet  
4"/110mm Outlet

Code **MAC-4A**



**14° Angle**  
90-112mm Inlet  
4"/110mm Outlet

Code **MAC-7A**



**90° Bend**  
90-112mm Inlet  
4"/110mm Outlet

Code **MAC-8**



**90° Bend (Long)**  
90-112mm Inlet  
4"/110mm Outlet

Code **MAC-8L**



**Straight Extension**  
Adjustable Length  
4"/110mm Outlet

Code **MAC-EXTA**



**Straight Extension**  
Adjustable Length  
3 1/2"/90mm Outlet

Code **MAC-EXTB**



**Straight Extension**  
Adjustable Length  
3"/75mm Outlet

Code **MAC-EXTC**



**Linking Connector**  
Adjustable Length  
(Polypropylene)

Code **MACLINK**

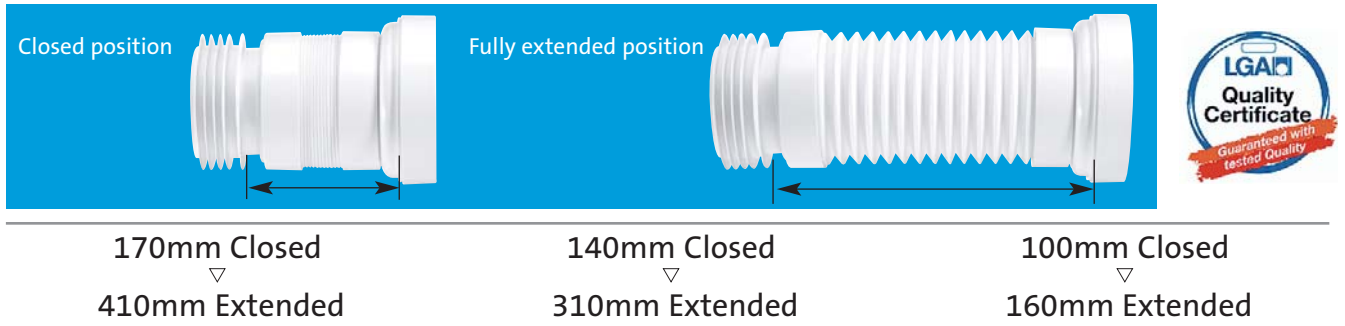


Code **MAC-1**



# Flexible WC Connectors

- There is no British Standard for flexible WC connectors but M<sup>c</sup>Alpine connectors comply to German Standard DIN 1389:2000-05 for flexible WC connectors
- Tested by German Testing House LGA, certificate number 7311072 and other testing houses. Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose



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



## 90-114mm Inlet 4"/110mm Outlet 1¼" Universal Vent Boss



## 97-107mm Inlet 3½"/90mm Outlet



## 90-114mm Inlet 3½"/90mm Outlet 1¼" Universal Vent Boss





170mm Closed  
▽  
410mm Extended

140mm Closed  
▽  
310mm Extended

95mm Closed  
▽  
195mm Extended

**90-114mm Inlet 110mm Plain End Outlet**



**WC-F26P**



**WC-F23P**

**Flexible Extensions for WC Connectors**

**110mm Inlet 4"/110mm Outlet**



**EXTA-F**

**90-114mm Inlet 110mm Plain End Outlet 1 1/4" Universal Vent Boss**



**WC-F26PV**



**WC-F23PV**

**110mm Inlet 3 1/2"/90mm Outlet**



**EXTB-F**

**90° Flexible WC Connectors**



Closed	Extended
170mm	250mm

**90-114mm Inlet  
4"/110mm Outlet**

Code **WC-CON8F18**



215mm	415mm
-------	-------

**90-114mm Inlet  
4"/110mm Outlet**

Code **WC-CON8F**



215mm	415mm
-------	-------

**90-114mm Inlet  
4"/110mm Outlet  
1 1/4" Universal Vent Boss**

Code **WC-CON8FV**

**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



Closed	Extended
150mm	310mm

**90-114mm Inlet  
4"/110mm Outlet**

Code **WC-F21R**



**90-114mm Inlet  
3 1/2"/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 1¼" Vent Boss**  
97-107mm Inlet  
4"/110mm Outlet

Code **WC-CON1V**



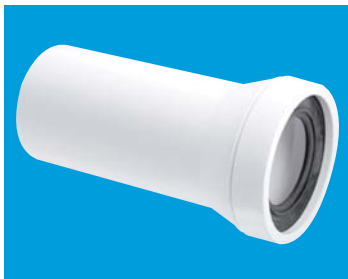
**Straight Adjustable Length**  
97-107mm Inlet  
4"/110mm Outlet

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**



**24mm Offset Adjustable Length**  
97-107mm Inlet  
3½"/90mm Outlet

Code **WC-CON5B**



**20mm 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**



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 1 1/4" 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  
3 1/2"/90mm Outlet

Code **WC-EXTB**



90° Bend  
Adjustable Length  
with 1 1/4" Vent Boss  
97-107mm Inlet  
110mm Plain End  
Outlet

Code **WC-CON9V**



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

Code **WC-EXTC**



10mm Offset  
Extension  
Adjustable Length  
3 1/2"/90mm Outlet

Code **WC-EXTD**



**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
- Prevents rodents from entering building through WC
- For use with any M<sup>C</sup>Alpine 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**

**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 M<sup>C</sup>Alpine rigid or flexible WC connector with 4"/110mm rubber outlet seal when rubber seal is removed. With 1½" universal pipe boss including blanking cap

Code

**WC-BP1**

**WC Connector Wall Flange**



**To fit over 110mm pipe**

Code

**WC17-110**

**To fit over Collar of Flexible WC Connector**

Code

**WC17-114**



## Air Admittance Valves (Ventapipe)

SECTION

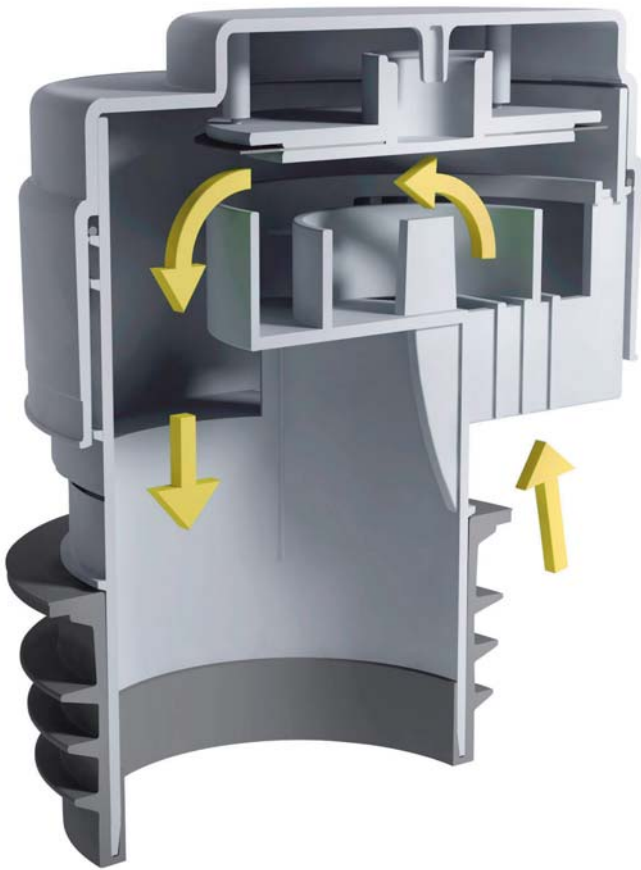
6



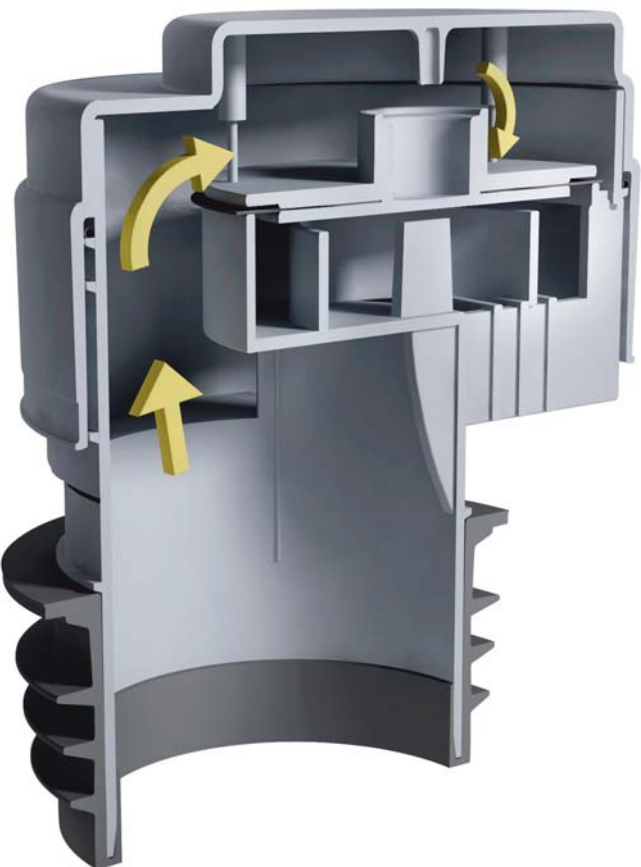
Air Admittance Valves (Ventapipe)

# Air Admittance Valves (Ventapipe)

## 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 M<sup>C</sup>Alpine 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 -20°C to + 60°C
- Ventapipe was granted A1 classification without the necessity of a polystyrene cover
- Ventapipe have 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-siphon 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
 <p><b>Ventapipe 100</b> 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</p>			
<b>VP100</b>	A1	47.2	Grey
 <p><b>Ventapipe 100</b> with solvent weld outlet for 4"/110mm pipe</p>			
<b>VP100N</b>	A1	19.4	Grey
 <p><b>Ventapipe 50</b> with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe. Also incorporates 2" universal outlet 4"/110mm pipe - push over rubber seal 3"/75mm pipe - push into rubber seal</p>			
<b>VP50-100</b>	A1	16.3	Grey
 <p><b>Ventapipe 50</b> 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</p>			
<b>VP50P</b>	A1	15.5	Grey
 <p><b>Ventapipe 50</b> with 2" universal outlet</p>			
<b>VP50</b>	A1	14.2	Grey
 <p><b>Ventapipe 40/50</b> solvent weld outlet for 1½" or 2" BS EN 1329-1:2000 solvent weld waste pipe</p>			
<b>VPSF-40/50</b>	A1	3.0	White



Code	Class	Air Flow Capacity (Litres per second)	Colour
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**Ventapipe 25** with 1½" BSP thread on outlet



<b>VP1</b>	A1	3.0	Grey
<b>VP1W</b>	A1	3.0	White



**Ventapipe 25** with 1½" universal outlet



<b>VP2</b>	A1	3.0	Grey
<b>VP2W</b>	A1	3.0	White



**Ventapipe 25** with integral 1½" Multifit tee

<b>VP3</b>	-	4.5	White
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**Ventapipe 25** with integral 1¼" Multifit tee

<b>VP4</b>	-	2.0	White
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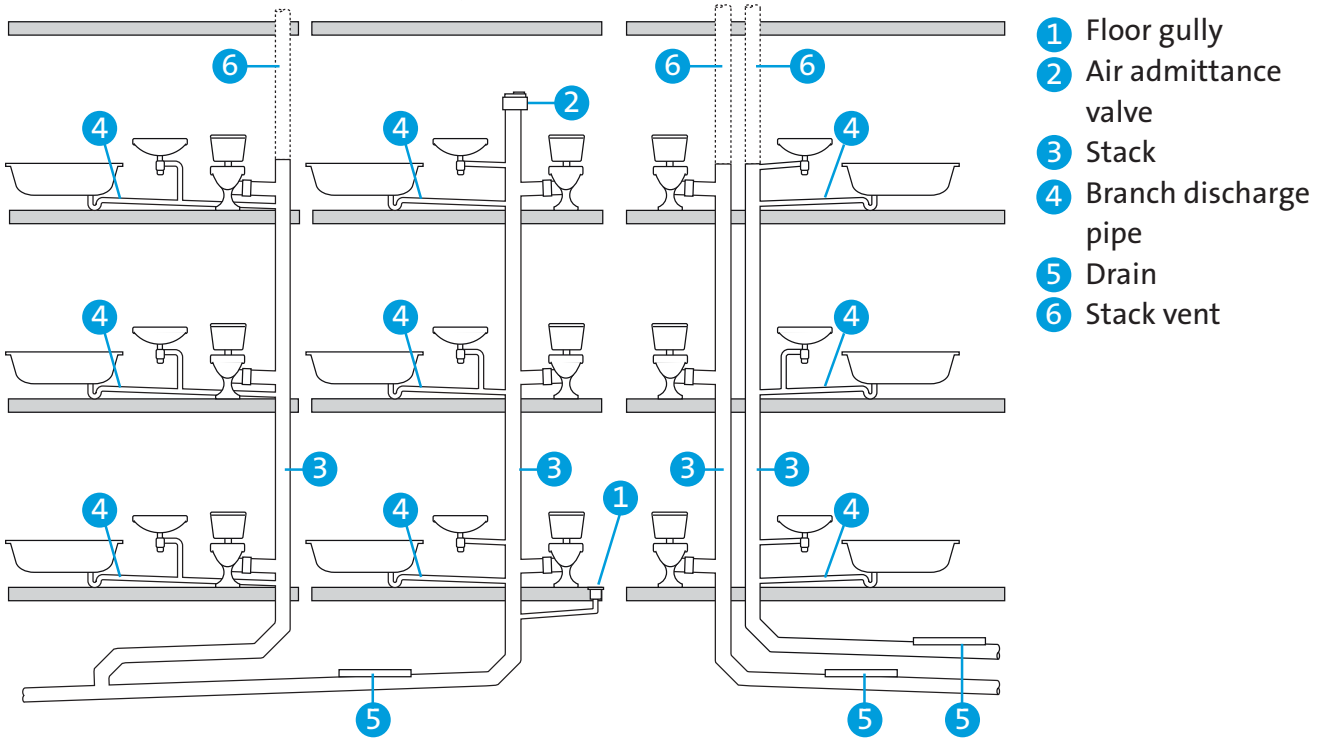


**Ventapipe 15** with 1¼" universal outlet

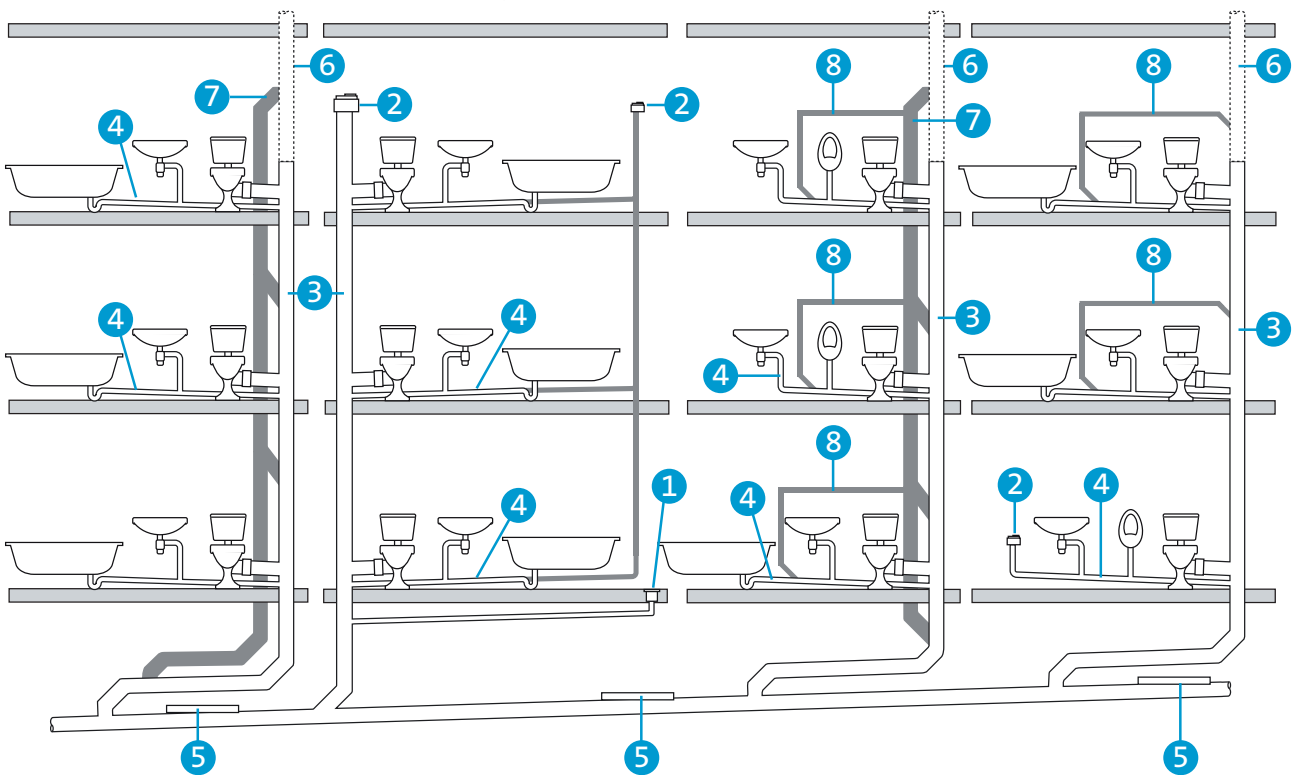
<b>VP15M</b>	-	0.5	Grey
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### Illustrations from BS EN 12056-2:2000 Gravity Drainage Systems Inside Buildings to demonstrate installation variations for Air Admittance Valves

#### Primary Ventilated System Configuration



#### 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.

# Waste Outlet Fittings, Waste Accessories and Handipak

SECTION

7



Waste Outlet Fittings, Waste Accessories and Handipak

# 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** 1 1/4" x 60mm flange x 3 1/2" tail: slotted with spring-loaded mushroom plug

Code **CW60-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: slotted with swivel plug

Code **CW60SP-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: unslotted with spring-loaded mushroom plug

Code **CWU60-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: unslotted with swivel plug

Code **CWU60SP-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: unslotted free flowing (open) with mushroom cover plate

Code **DWU60-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: slotted with swivel handle plug

Code **BW60SPH-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: slotted with square spring-loaded plug

Code **CW60SQ-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: unslotted with swivel handle plug

Code **BWU60SPH-CB**



**Backnut Model** 1 1/4" x 60mm flange x 3 1/2" tail: unslotted with square spring-loaded plug

Code **CWU60SQ-CB**



**Extended Backnut** 1 1/4" x 55mm tail: threaded shroud and extension piece

Code **GWAL-CB**



# Basin Waste Outlets

## Centre Pin Basin Wastes



- 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 Basin Wastes - Stainless Steel Flange



### Centre Pin Model

	Code
1 1/4" x 60mm flange: plug	<b>BSW1P</b>
1 1/4" x 60mm flange: plug with CP chain and stay	<b>BSW1PC</b>
1 1/2" x 60mm flange: plug	<b>BSW2P</b>
1 1/2" x 60mm flange: plug with CP chain and stay	<b>BSW2PC</b>



### Centre Pin Model with backnut and washer for basin bracket if required

1 1/4" x 60mm flange: plug	<b>BSW11P</b>
1 1/4" x 60mm flange: plug with CP chain and stay	<b>BSW11PC</b>

## Backnut Basin Wastes - Chrome Plated Plastic



### Backnut Model

1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug	<b>BW1</b>
1 1/4" x 60mm flange x 3 1/2" tail: unslotted: plug	<b>BW1A</b>



### Backnut Model

1 1/4" x 60mm flange x 3 1/2" tail: slotted: CP plug	<b>CW1</b>
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# Basin Waste Outlets

## Backnut Basin Wastes - Stainless Steel Flange



### Backnut Model

	Code
1¼" x 60mm flange x 3½" tail: slotted: plug	<b>BSW1</b>
1¼" x 60mm flange x 3½" tail: unslotted: plug	<b>BSW2</b>



### Backnut Model

1¼" x 60mm flange x 3½" tail: slotted: plug	<b>BSW12</b>
1¼" x 60mm flange x 3½" tail: slotted: plug with triangle	<b>BSW12T</b>
1¼" x 60mm flange x 3½" tail: slotted: plug with CP chain and stay	<b>BSW12C</b>



### Backnut Model - white plastic

1¼" x 60mm flange x 3½" tail: slotted: plug	<b>W1</b>
1¼" x 60mm flange x 3½" tail: slotted: plug with CP chain and stay	<b>W1C</b>
1¼" x 60mm flange x 3½" tail: unslotted: plug	<b>W1A</b>

## Combined Wastes and Overflows for Vanity Basin

### Centre Pin Models - stainless steel flange



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**

### Banjo Model - white plastic



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 Wastes with Spring-Loaded Mushroom Plugs



**Backnut Model** CP brass 1 1/2" x 70mm flange x 44mm tail with spring-loaded mushroom plug

Code **CBW70-CB**

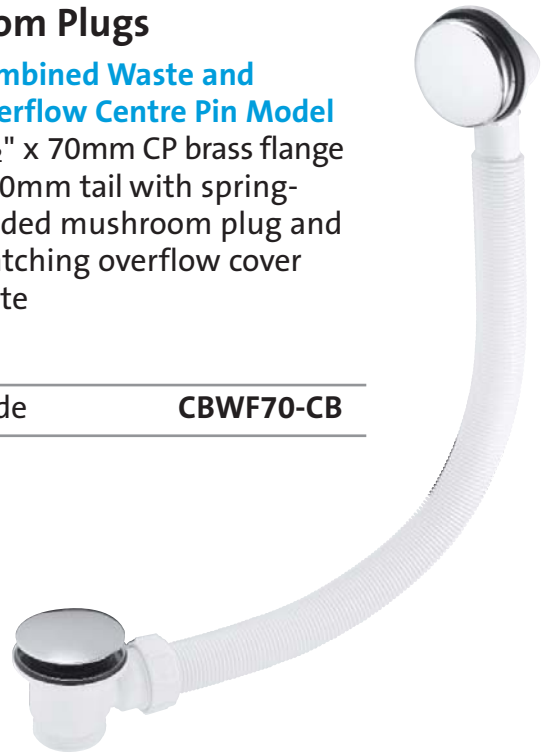


**Centre Pin Model** 1 1/2" x 70mm CP brass flange x 60mm tail with spring-loaded mushroom plug

Code **CWS70-CB**

**Combined Waste and Overflow Centre Pin Model** 1 1/2" x 70mm CP brass flange x 60mm tail with spring-loaded mushroom plug and matching overflow cover plate

Code **CBWF70-CB**



### Centre Pin Bath Wastes - Stainless Steel Flange



**Centre Pin Model**

1 1/4" x 70mm flange: plug

Code **BSW9P**

1 1/4" x 70mm flange: plug and CP chain

Code **BSW9PC**

1 1/2" x 70mm flange: plug

Code **BSW10P**

1 1/2" x 70mm flange: plug and CP chain

Code **BSW10PC**



1 1/2" x 70mm flange: plug

Code **BSW15P**

1 1/2" x 70mm flange: plug and CP chain

Code **BSW15PC**

### Backnut Bath Wastes



**Backnut Model** - stainless steel flange

1 1/2" x 70mm flange x 1 1/2" tail: unslotted: plug

Code **BSW10**



**Backnut Model** - chrome plated plastic

1 1/2" x 70mm flange x 1 1/2" tail: unslotted: plug

Code **BW5**

1 1/2" x 70mm flange x 1 1/2" tail: unslotted: CP plug

Code **CW5**



**Backnut Model** - white plastic

1 1/4" x 70mm flange x 1 1/2" tail: unslotted: plug

Code **W4**

1 1/2" x 70mm flange x 1 1/2" tail: unslotted: plug

Code **W5**

■ All the above waste outlet fittings are suitable for use with traps listed on pages 16-17

# Pop-Up Bath Wastes and Overflows

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



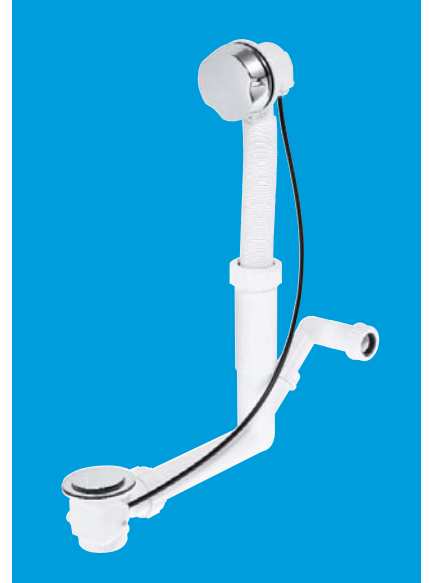
1½" x 70mm flange with CP brass overflow/command knob

Code **PUB-CPB**



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

Code **PUB-CPX**



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**

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

Code **PUB-CP**

1½" x 70mm colour matched white plastic flange and overflow/command knob

Code **PUB-WH**

■ 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



**Centre Pin Model** - stainless steel flange

	Code
1¼" x 70mm flange: SS overflow grating: plug and CP chain	<b>FBW1P*</b>
1½" x 70mm flange: SS overflow grating: plug and CP chain	<b>FBW2P*</b>

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

1¼" x 70mm flange: CP overflow grating: plug and CP chain	<b>FBW1PC</b>
1½" x 70mm flange: CP overflow grating: plug and CP chain	<b>FBW2PC</b>



**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	<b>FBW2R-C</b>
1½" x 70mm white plastic flange and 34mm diameter overflow tube: plug and CP chain	<b>FBW2R-W</b>

**Centre Pin Model**

1½" x 70mm white plastic waste and overflow: plug and CP chain	<b>FBW2PW</b>
--	---------------

■ All the above waste outlet fittings are suitable for use with traps listed on page 16

# Sink Waste Outlets

## Centre Pin Sink Wastes - Stainless Steel Flange



### Centre Pin Model

	Code
1¼" x 85mm flange: plug	<b>BSW3P</b>
1¼" x 85mm flange: plug with CP chain and stay	<b>BSW3PC</b>
1½" x 85mm flange: plug	<b>BSW6P</b>
1½" x 85mm flange: plug with CP chain and stay	<b>BSW6PC</b>



### Centre Pin Model

1½" x 85mm flange: black PVC handle plug	<b>BSW6PR</b>
--	---------------



### Centre Pin Model

1½" x 70mm flange: black PVC handle plug	<b>BSW10PR</b>
--	----------------



### Centre Pin Model

2" x 85mm flange: plug	<b>BSW21P</b>
2" x 85mm flange: plug with CP chain and stay	<b>BSW21PC</b>



### Centre Pin Model Waste for Belfast Sink

1½" x 85mm flange: CP handle plug	<b>BSW6CP2H</b>
-----------------------------------	-----------------



### Centre Pin Model Reducer Waste

1½" x 113mm flange: black ABS handle plug	<b>SW45P</b>
1½" x 113mm flange: plug with CP chain and stay	<b>BSW45P</b>

## Backnut Sink Waste



### Backnut Model - white plastic

1½" x 85mm flange x 3½" tail: unslotted: plug	<b>W3</b>
---	-----------



**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: 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: 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: CP overflow grid

**FMBSWSS85**

1½" x 85mm flange: overflow grid: PVD finish (gold)

**FMBS85PVD**

Basket Strainer Wastes



**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 Wastes and Overflows

**Centre Pin Model** - stainless steel flange

	Code
1½" x 70mm flange: CP plastic command knob	<b>PUS70-CP</b>
1½" x 70mm flange: flexible overflow: CP plastic grid and command knob	<b>PUFS70-CP</b>
1½" x 85mm flange: CP plastic command knob	<b>PUS85-CP</b>
1½" x 85mm flange: flexible overflow: CP plastic grid and command knob	<b>PUFS85-CP</b>

### Pop-Up Basket Strainer Wastes and Overflows

**Centre Pin Model** - stainless steel flange

1½" x 113mm flange basket strainer waste: CP plastic command knob	<b>PUS113-CP</b>
1½" x 113mm flange basket strainer waste: flexible overflow: CP plastic grid and command knob	<b>PUFS113-CP</b>



# Shower Waste Outlets

## Centre Pin Shower Wastes - Stainless Steel Flange



**Centre Pin Model** - stainless steel flange

Code

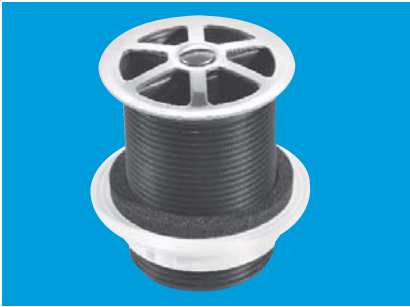
1¼" x 70mm flange

**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 2¾" tail

**SWHF1-WH**

2" x 113mm flange x 2¾" tail

**SWHF2-WH**



Code **SWHF3-CP**

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

	Code
1½" x 113mm flange x 2¾" tail: white plastic	<b>SWHF3-WH</b>
1½" x 113mm flange x 2¾" tail: CP plastic	<b>SWHF3-CP</b>
2" x 113mm flange x 2¾" tail: white plastic	<b>SWHF4-WH</b>
2" x 113mm flange x 2¾" tail: CP plastic	<b>SWHF4-CP</b>



Code **SWHF6-WH**

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

1½" x 113mm flange x 2¾" tail: white plastic	<b>SWHF5-WH</b>
1½" x 113mm flange x 2¾" tail: CP plastic	<b>SWHF5-CP</b>
2" x 113mm flange x 2¾" tail: white plastic	<b>SWHF6-WH</b>
2" x 113mm flange x 2¾" tail: CP plastic	<b>SWHF6-CP</b>

Code **BSW10P-F**



Code **CSWU3P**



Code **CWS5**



# 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	<b>UPSW-1</b>
------	---------------



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

Code	<b>UPSW-2</b>
------	---------------



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

Code	<b>UPSW-3</b>
------	---------------



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

Code	<b>UPSW-2-22MM</b>
------	--------------------



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

Code	<b>UPSW-3-22MM</b>
------	--------------------



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

Code	<b>UPSW-4-22MM</b>
------	--------------------



Code **UPSW-3-22MM**



### Backnut Urinal Wastes



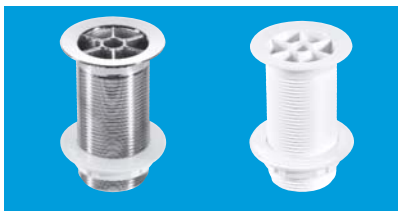
**Backnut Model** - domed flange

	Code
1 1/4" x 60mm flange x 3 1/2" tail: white plastic	<b>WU10</b>
1 1/2" x 60mm flange x 2" tail: white plastic	<b>WU11</b>



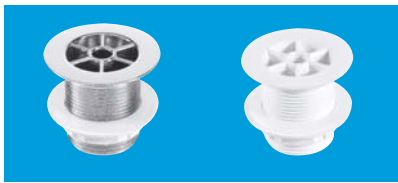
**Backnut Model** - domed flange with removable dome

2" x 85mm flange x 1 5/8" tail: grey plastic	<b>GWU20</b>
2" x 85mm flange x 1 5/8" tail: white plastic	<b>WU20</b>



**Backnut Model** - flush flange

1 1/4" x 60mm flange x 3 1/2" tail: CP plastic	<b>CWU1A</b>
1 1/4" x 60mm flange x 3 1/2" tail: white Plastic	<b>WU1A</b>



**Backnut Model** - flush flange

1 1/4" x 60mm flange x 2 1/8" tail: CP plastic	<b>CWU1S</b>
1 1/4" x 60mm flange x 2 1/8" tail: white Plastic	<b>WU1S</b>



**WhiffAway** - Backnut Model

Eliminates odours and reduces water usage

1 1/4" x 63mm flange x 50mm tail with two stainless steel domes	<b>WHIF-1</b>
1 1/4" x 63mm flange x 90mm tail with two stainless steel domes	<b>WHIF-1A</b>
1 1/2" x 63mm flange x 50mm tail with two stainless steel domes	<b>WHIF-2</b>
1 1/2" x 63mm flange x 90mm tail with two stainless steel domes	<b>WHIF-2A</b>
2" x 85mm flange x 40mm tail with two stainless steel domes	<b>WHIF-3</b>
Box of 26 replaceable urinal discs	<b>WHIFDISC</b>

■ All WhiffAway urinal waste outlet fittings are supplied with a starter pack of 26 replaceable urinal discs

### Waste with plug for Caravans and Boats












This waste has a plain tail and can be fitted into any 1 1/4" x 75mm water seal adjustable inlet trap - e.g. AA10 see pages 6 and 8. Remove standard adjustable inlet supplied and substitute fitting

50mm plastic flange: 3/4" BSP thread: plug: special locking nut	<b>CTW1</b>
---	-------------

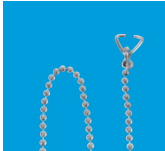



# Waste Accessories and Soap Dispenser

## Plugs


	<b>Black Plastic with Rubber Seal</b>	Code
	1 3/4" with handle	<b>BP2H</b>
	<b>Black PVC</b>	Code
	1 1/2" with handle	<b>BP3H</b>
	1 3/4" with handle	<b>BP4H</b>
	<b>White Plastic with Rubber Seal</b>	Code
	1 3/4" with handle	<b>WP2H</b>
	<b>CP Plastic with Rubber Seal</b>	Code
	1 1/2" with handle	<b>CP1H</b>
	1 3/4" with handle	<b>CP2H</b>
	<b>CP Plastic with Rubber Seal</b>	Code
	1 1/2"	<b>CP1</b>
	1 3/4"	<b>CP2</b>
	<b>Black PVC</b>	Code
	1 1/2"	<b>BP3</b>
	1 1/2" with triangle	<b>BP3T</b>
	1 3/4"	<b>BP4</b>
	1 3/4" with triangle	<b>BP4T</b>
	2"	<b>BP5</b>
	<b>White Plastic with Rubber Seal</b>	Code
	1 1/2"	<b>WP1</b>
	1 1/2" with triangle	<b>WP1T</b>
	1 3/4"	<b>WP2</b>
	1 3/4" with triangle	<b>WP2T</b>
	<b>White PVC</b>	Code
	1 1/2"	<b>WP3</b>
	1 1/2" with triangle	<b>WP3T</b>
	1 3/4"	<b>WP4</b>
	1 3/4" with triangle	<b>WP4T</b>
	<b>Captive Plug - Black Plastic</b>	Code
	1 1/2"	<b>BP1-CAP†</b>
	1 3/4"	<b>BP2-CAP†</b>

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



## Chains

	Code
10" CP chain and two triangles	<b>CH5</b>
	Code
16" CP chain and two triangles	<b>CH4</b>
	Code
18" CP chain and two triangles	<b>CH4-18</b>
	Code
10" CP chain and two triangles, stay and nut	<b>CH10</b>


## Backnuts

	<b>White Plastic with Rubber Washer</b>	Code
	1 1/4" x 60mm flange	<b>BN1</b>
	1 1/2" x 70mm flange	<b>BN2</b>
	1 1/2" x 85mm flange	<b>BN3</b>
	2" x 75mm flange	<b>BN5</b>

## Tap Hole Stoppers

	<b>Stainless Steel</b>	Code
	16mm long thread	<b>TAPSTOP-SS</b>
	40mm long thread	<b>TAPSTOP-SS40</b>
	<b>White Plastic</b>	Code
	17mm long thread	<b>TAPSTOP-WH</b>

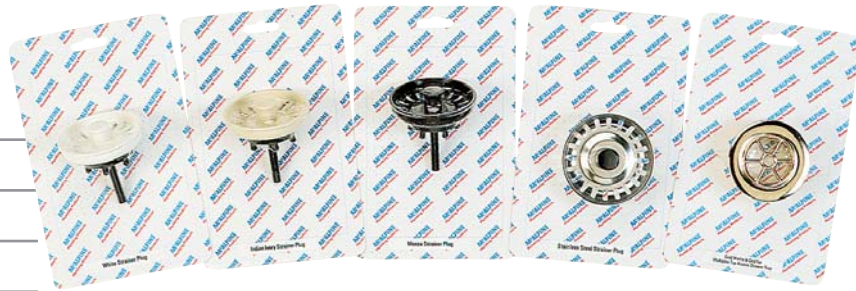
## Overflow Stopper

	<b>Black Plastic</b>	Code
	17mm long thread	<b>O/FSTOP-BL</b>

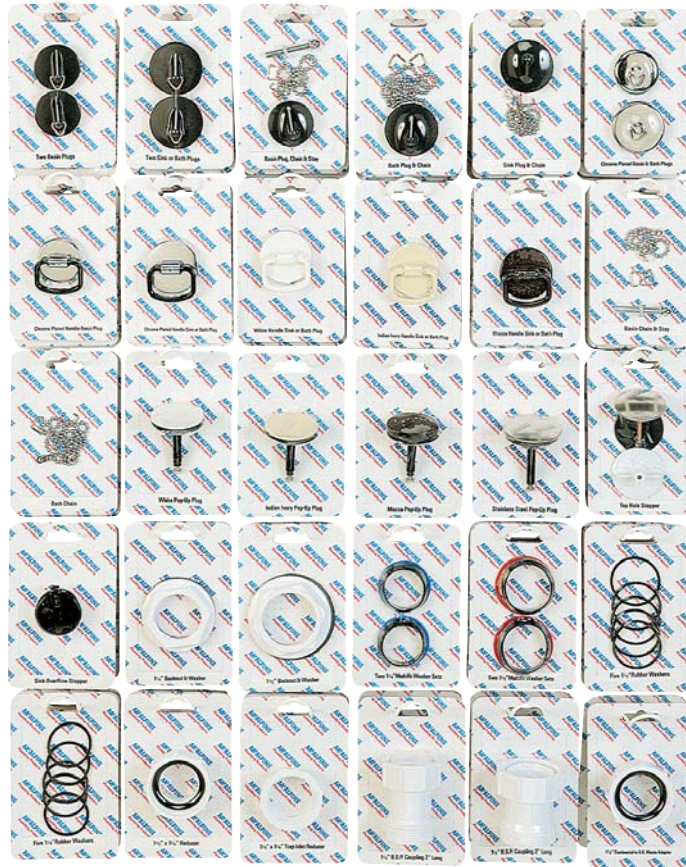
## Soap Dispenser

	<b>Sink 1/2 litre bottle with CP plastic top</b>	Code
		<b>SOAP-CP</b>

### 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 M<sup>c</sup>Alpine Top Access Shower Trap
- 55 Tun Dish with 19/23mm Universal Outlet
- 56 Side Inlet Tun Dish with 19/23mm Universal Outlet
- 57 Top Inlet Tun Dish with 19/23mm Universal Outlet
- 58 3/4" Overflow x 1 1/2" Flushpipe Tee
- 59 Nozzle for M<sup>c</sup>Alpine Washing Machine Trap
- 60 1 1/2" Tee Piece with Adaptor for Washing or Dishwashing Machine Discharge Hose







# 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<sup>c</sup>Alpine manufacture 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 <sup>(1)</sup>	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	1.1	4.4 <sup>(1)</sup>	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	0.7	8.7 <sup>(1)</sup>	0	0
Washbasin, Bidet (30mm diameter trap)	40	75	3.0	1.8 to 4.4	2	0
Shower, Bath	40	50	No Limit <sup>(2)</sup>	1.8 to 9.0	No Limit	1.5
Bowl Urinal	40	75	3.0 <sup>(3)</sup>	1.8 to 9.0	No Limit <sup>(4)</sup>	1.5
Trough Urinal	50	75	3.0 <sup>(3)</sup>	1.8 to 9.0	No Limit <sup>(4)</sup>	1.5
Slab Urinal <sup>(5)</sup>	60	50	3.0 <sup>(3)</sup>	1.8 to 9.0	No Limit <sup>(4)</sup>	1.5
Kitchen Sink (40mm diameter trap)	40	75	No Limit <sup>(2)</sup>	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 <sup>(6)</sup>	75	50	No Limit	1.8 Min.	No Limit <sup>(4)</sup>	1.5
WC with Outlet greater than 80mm <sup>(6)</sup>	100	50	No Limit	1.8 Min.	No Limit <sup>(4)</sup>	1.5
Food Waste Disposal <sup>(7)</sup>	40 Min.	75 <sup>(8)</sup>	3.0 <sup>(3)</sup>	13.5 Min.	No Limit <sup>(4)</sup>	1.5
Sanitary Towel Disposal Unit	40 Min.	75 <sup>(8)</sup>	3.0 <sup>(3)</sup>	5.4 Min.	No Limit <sup>(4)</sup>	1.5
Floor Drain	50	50	No Limit <sup>(3)</sup>	1.8 Min.	No Limit	1.5
Floor Drain	70	50	No Limit <sup>(3)</sup>	1.8 Min.	No Limit	1.5
Floor Drain	100	50	No Limit <sup>(3)</sup>	1.8 Min.	No Limit	1.5
4 Basins	50	75	4.0	1.8 to 4.4	0	0
Bowl Urinals <sup>(8)</sup>	50	75	No Limit <sup>(3)</sup>	1.8 to 9.0	No Limit <sup>(4)</sup>	1.5
Maximum of 8 WC's <sup>(6)</sup>	100	50	15.0	0.9 to 9.0	2	1.5
Up to 5 Spray Tap Basins <sup>(9)</sup>	30 Max.	50	4.5 <sup>(3)</sup>	1.8 to 4.4	No Limit <sup>(4)</sup>	0



# Technical Details

## 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 53

To BS EN 1329-1:2000

For use with M<sup>C</sup>Alpine 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 59

For use with M<sup>C</sup>Alpine 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





**Product Information**

**Shower Traps with Top Access see Pages 22-27**

All M<sup>C</sup>Alpine shower traps with top access surpass the minimum required flow rate of 24 litres per minute when tested in accordance with clause 5 of BS EN 274-2:2002

M<sup>C</sup>Alpine flow rates are calculated when the traps are tested under a constant 15mm head of water. Some manufacturers quote test results when their traps have been tested under a constant 120mm head of water

This is confusing and misleading as 120mm head of water in relation to shower tray installations is not normally achievable on modern shower trays

**However, it should be noted that the M<sup>C</sup>Alpine high-flow high-performance and vertical outlet range of shower traps, illustrated on pages 22 and 23, have a discharge rate exceeding 50 litres per minute when tested under a constant 15mm head of water**

**Flow rates for individual shower traps available upon application**

Code **WC-CON8F18**



Code **VP50P**



**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

**Bath Fillers see Page 18**

M<sup>C</sup>Alpine 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

**Condensate Products see Pages 14-15**

M<sup>C</sup>Alpine 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

**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 53**

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

**MACFIT WC Connectors see Pages 66 and 67**

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

**Rigid WC Connectors see Pages 70-71**

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

**Flexible WC Connectors see Pages 68-69**

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

**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	Page	Code	Page	Code	Page	Code	Page	Code	Page
FLEXCON4	50	HD3-3M	53	MZ4-TANK	49	R2A	58	S1M	6
FLEXCON5	50	HWILF	61	MZ4L	48/61	R2AM	58	S4A	59
FLEXCON6	50			MZ18E	48	R2M	58	S4E	59
FLEXCON7	50	<b>L</b>		MZ20	48	R3	58	S4L	53
FLEXCON8	50	L10	16	MZ20L	48	R3M	58	S4M	53
FLEXKIT1	12	L10V	16			R-3M	58	S5	59/61
FMBS85PVD	88	L10PLUG	28	<b>O</b>		R4	58	S5M	49
FMBSWSS85	88			OBT1	9	R4M	58/60	S5M-A	49
FSK10	17	<b>M</b>		OBT1V	9	R5	58	S7	59
FSK10V	17	MA15	11	OBT1-CO	14	R5M	58	S8A	51/59
FSK10E	17	MAC-1	67	OBT2-CO	14	R6	58	S8B	51
FSKW1	19	MAC-3	67	O/FSTOP-BL	94	R6A	58	S8M	49
FST1WP	8	MAC-3C	67			R7	58	S9	59
FSW1P	87	MAC-4	67	<b>P</b>		R8A	58	S11M	49/60
FSW1PC	87	MAC-4A	67	P10	16	R11	20	S12A-1	51
FSW1PP	87	MAC-7A	67	PIPE32-1000-CB		R12	20	S12A-2	51
FSW2P	87	MAC-8	67		52	R13	20/58	S12A-3	51
FSW2PC	87	MAC-8L	67	PIPE35-1000-CB		R14	20	S12A-F	51
FSW2PC-70	87	MAC-EXTA	67		52	R15	20	S12C	51
FSW2PP	87	MAC-EXTB	67	PIPE42-1000-CB		R16	49/58	S12D	51
FSW2PP-70	87	MAC-EXTC	67		52	R16-BL	15/55	S13	51
FSW2PR	87	MACLINK	67	P-OR-SHOWERTRP		R16-GR	15/55	S16	51
FSW2PR-70	87	MBSWSS85	88		28	R17	49/58	S17	53
FSW45P	87	MBS85PVD	88	P-RW-STW90		R28-NRV	62	S18	59
FTC1AWH	58	MD100	41		28	R29-NRV	62	S18L	53
FVW1P	82	MD100-3	41	PUB-CP	84	R30	60	S18M	53
FVW1PC	82	MD200	41	PUB-CPB	84	R30E	60	S20L	53
FVW1PW	82	MD400	41	PUB-CPX	84	R31	60	S20M	53
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