



McAlpine & Co Ltd  
Kelvin Avenue  
Hillington  
Glasgow G52 4LF

Tel: 0141 882 3213  
Fax: 0141 891 5065  
Fax: (Sales Office) 0141 883 5697

[www.mcalpineplumbing.com](http://www.mcalpineplumbing.com)



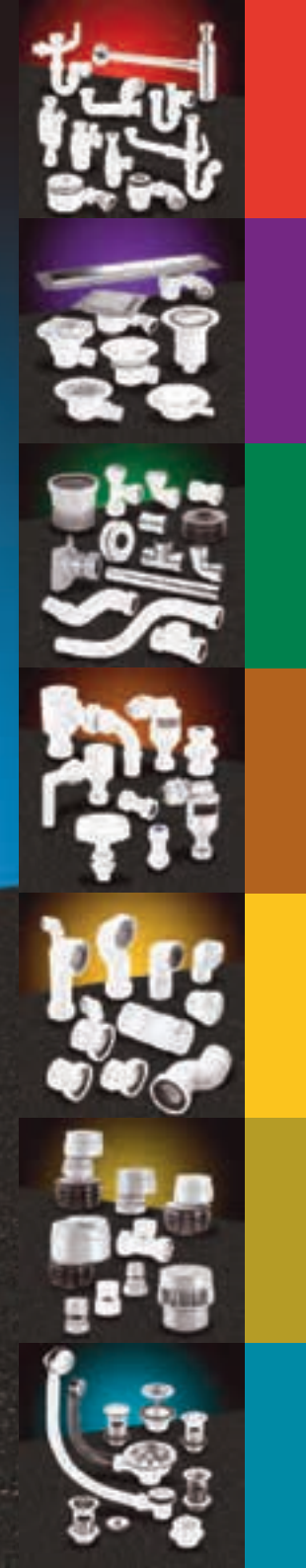
McAlpine Product Catalogue

Complete Range of Plumbing Products



# Product Catalogue

Complete Range of Plumbing Products



**NEW**

# **LATEST Innovative Products**

	Page
Anti-Syphon (Silentrap) incorporating a Silicone Valve	7
70mm x 25mm Water Seal Shower Trap	29
WC Frame Connector Kit	82
Spring-Loaded Centre Pin Basin Wastes	91



**Join MacTrade Installers Club**  
An exciting new programme for the  
UK's Professional Plumbers.

**Sign up today  
for FREE!**

See inside back cover  
for further details.

# Contents

Latest Innovative Products .....	Inside Front Cover
Introduction.....	1
McAlpine Multifit.....	2

## Plastic Traps and Condensate Products

### SECTION 1

Anti-Syphon Traps (Silentraps) .....	4
Resealing Bottle Traps.....	5
Bottle Traps.....	6-7
Chrome Plated Basin Traps, Pipe and Wall Flange.....	8
MacValve Self-Closing Waste Valve.....	9
Tubular Traps .....	10-11
Domestic Appliance Traps.....	12-13
Plumbing Kits for Sinks/Basin .....	14-15
Condensate Products .....	16-17
Bath Traps.....	18-19
Bath Fillers with Trap and Overflow .....	20
Overflow Manifold (Wasteflow), Chrome Plated Bath Trap with Overflow .....	21-22
110mm x 50mm Water Seal Pushfit Traps, Urinal Bowl Syphonic Traps and Condensation Trap ....	23
90mm Shower Traps with Top Access.....	24-25
1½" Shower Traps with Top Access .....	26-28
70mm Shower Trap and Shower Trap Accessories .....	29
Trap Washers, Bath and Shower Trap Accessories .....	30

## Shower and Floor Gullies, Channel Drain and Tile Drain

### SECTION 2

General Information .....	32
Assembly and Features of Trapped Gullies.....	33
Gullies for use with Sheet Flooring.....	34-35
Gullies for use with Tiled or Stone Floors where a Waterproofing Membrane is required.....	36-37
Two-Piece Gully and Gully with Non-Return Valve.....	38
Gullies with Non-Return Valve for use where floor depth is restricted.....	39-40
Gullies with Anti-Ligature Grating for use with Sheet Flooring .....	40
Top Access Shower Traps for use with Sheet Flooring, Tiled or Stone Floors .....	41
Tiles and Gratings.....	42
Gullies suitable for Concrete Ground Floors where a Waterproofing Membrane is not required....	43
Channel Drain for Tiled Floors .....	44-46
Tile Drain for Wet Floor Areas .....	47
Installation Guidelines.....	48-49
Conversion Kits.....	50
Accessories .....	51
Gully Flow Rates .....	52

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

### SECTION 3

Multifit Waste Fittings .....	54-55
Flexible Waste Fittings and Non-Return Valves .....	56-57
Sundry Fittings .....	58
Surefit Waste System .....	59
Chrome Plated Brass Waste Pipe and Fittings .....	60-61
Drain Connectors and Blanking Off Caps .....	62
Mechanical Soil Pipe Boss Connectors .....	63
Aluminium Roof Flashing (MacFlash) .....	64

## Plastic Overflow Pipe and Fittings

### SECTION 4

3/4" Overflow Pipe, Pushfit and 19/23mm Universal Fittings .....	66
1 1/4" and 1 1/2" Overflow Pipe and Pushfit Fittings .....	67
Water Storage Cistern Fittings .....	68-69
Tundishes and Non-Return Valves .....	70
WC Overflow Kits with Tundish and Tee Pieces .....	71

## WC Connectors MACFIT, Flexible and Rigid

### SECTION 5

MACFIT WC Connectors .....	74-75
Flexible WC Connectors .....	76-77
Flexible WC Connectors for Back to Wall WC Pan .....	78
Rigid WC Connectors .....	79-81
WC Connector Accessories .....	81-82

## Air Admittance Valves (Ventapipe)

### SECTION 6

General Information .....	84-85
Ventapipe 100, 50, 25 and 15 .....	86-87
Installation Guidelines .....	88

## Waste Outlet Fittings, Waste Accessories and Handipak

### SECTION 7

General Information .....	90
Basin Waste Outlets .....	90-92
Bath Waste Outlets .....	93-95
Sink Waste Outlets .....	96-99
Shower Waste Outlets .....	100-102
Urinal Waste Outlets .....	103
Waste Accessories and Soap Dispenser .....	104
Handipak Carded Plumbing Range .....	105

## Technical Details and Index

### SECTION 8

Installation Guidelines .....	108
Table from BS EN 12056-2:2000 .....	109
Installation Information .....	110
Product Information .....	111
Product Code Index .....	112-116

## Introduction

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

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

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

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

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

## Quality Control

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



## Technical Information

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

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

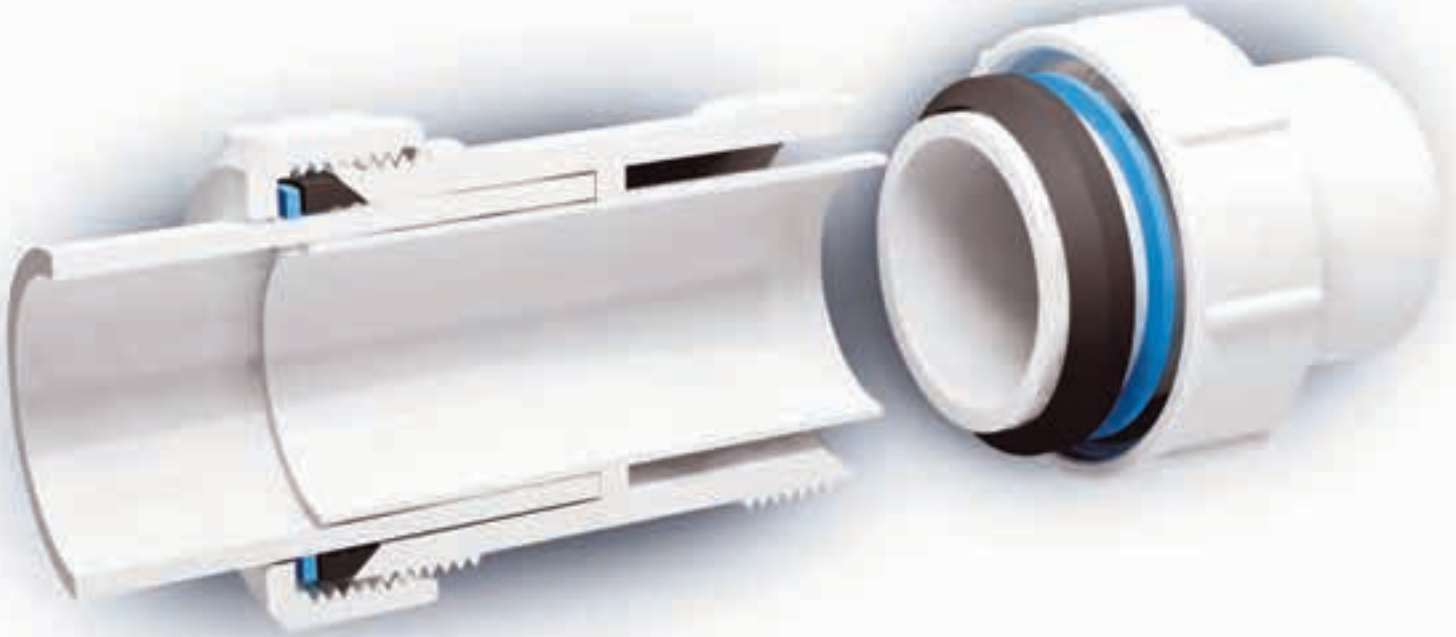
**Unless authorised by McAlpine & Co. Ltd. the contents of this catalogue may not be copied in any way.**

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



## McAlpine Multifit

- Most McAlpine trap outlets and fittings have Multifit connections
- Multifit connections suit all plastic waste pipes to BS EN 1451-1:2000 and BS EN 1329-1:2000, copper pipe (metric or imperial) and lead pipe



- The moulded internal sleeve of the connection, centres and supports the pipe. The Multifit and friction washers ensure a secure seal is made between the pipe and the wall of the fitting. When the compression nut is turned hand tight the best possible mechanical joint is complete
- If a plastic pipe is undersize, or out of shape, the end may require to be warmed to enable it to be pushed over the internal sleeve
- For technical reasons, it is not possible to manufacture Multifit connections on all traps and fittings. Where Multifit is not provided the description universal is applied. The only difference being that universal does not have an internal sleeve within the trap or fitting

# Plastic Traps Condensate Products

**M'ALPINE**  
Plumbing Products

SECTION

1



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

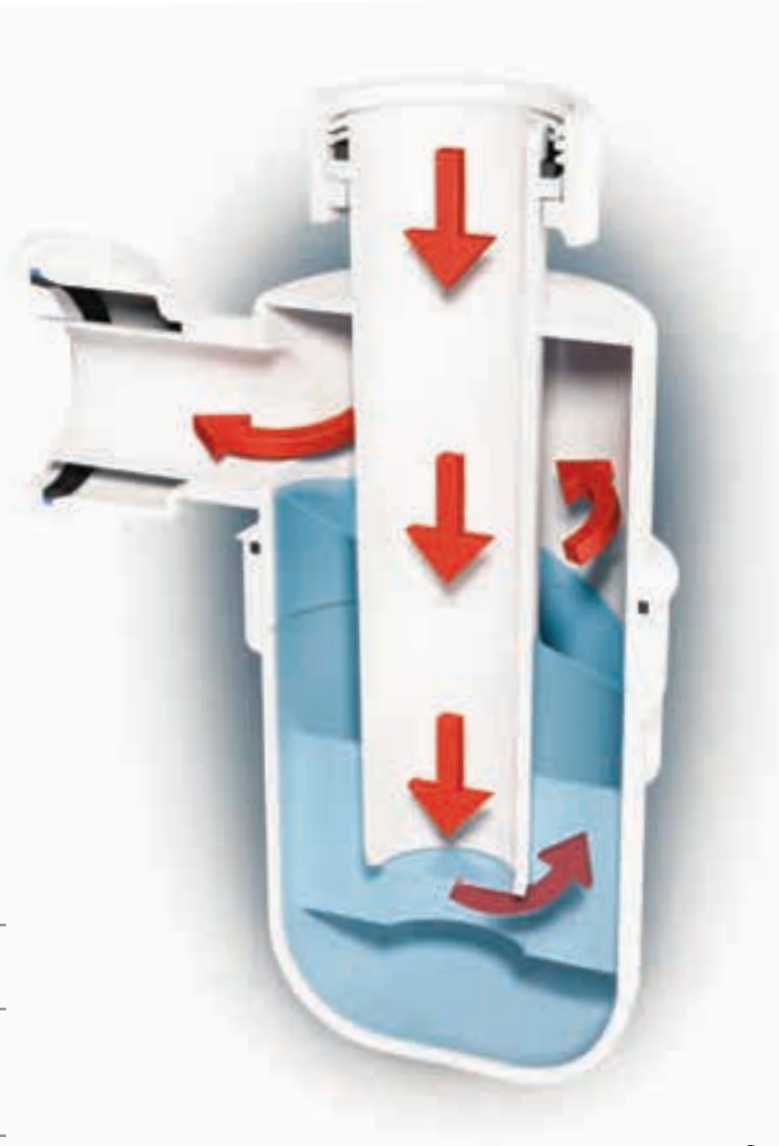
Resealing Bottle Traps are an alternative to Anti-Syphon Traps (Silenttraps) and may be used in similar circumstances.

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

## Advantages

- The simple non-mechanical action ensures retention of adequate water seal even under extreme syphonic conditions
- Eliminates the need for secondary ventilation



1 1/4" Code	1 1/2" Code
<b>Standard</b>	
<b>A10R</b>	<b>C10R</b>



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



<b>Adjustable Inlet Chrome Plated</b>	
<b>A10AR-CP</b>	<b>C10AR-CP</b>



**Resealing Shower Trap**

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

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

- 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
-------------	-------------

**Standard**

<b>A10</b>	<b>C10</b>
------------	------------



**Anti-Syphon (Silentrap)**

<b>A10V</b>	<b>C10V</b>
-------------	-------------



**Resealing**

<b>A10R</b>	<b>C10R</b>
-------------	-------------



**Adjustable Inlet**

<b>A10A</b>	<b>C10A</b>
-------------	-------------



**Anti-Syphon (Silentrap)  
Adjustable Inlet**

<b>A10AV</b>	<b>C10AV</b>
--------------	--------------



**Resealing  
Adjustable Inlet**

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



1¼" Code	1½" Code
-------------	-------------

**Adjustable Inlet**

<b>AA10</b>	-
-------------	---



**Adjustable Inlet Basin  
Trap** with centre pin  
waste

<b>AA10W</b>	-
--------------	---



**Bottle HandiTrap** 75mm  
water seal with 1¼" and  
1½" inlets and outlets

Code	<b>HANDITRAP-B</b>
------	--------------------



**50mm Water Seal**

<b>E10</b>	-
------------	---



**38mm Water Seal**

-	<b>G10</b>
---	------------



**Conversion Bend** to  
convert bottle 'P' trap to  
'S' trap

<b>S1M</b>	<b>T1M</b>
------------	------------

### Chrome Plated Bottle Traps



1¼"	1½"
Code	Code

**Resealing Trap  
Adjustable Inlet**

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



**Adjustable Inlet**

<b>CAA10</b>	-
--------------	---

**Adjustable Inlet** to suit  
32mm OD European size  
CP brass waste pipe

<b>CE31A</b>	-
--------------	---



### Anti-Syphon (Silentrap) incorporating a Silicone Valve

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



1¼"	1½"
Code	Code

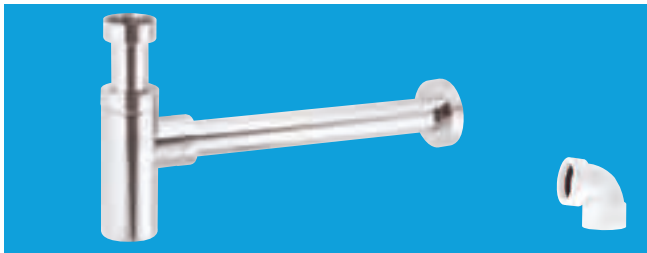
**Anti-Syphon (Silentrap)  
Adjustable Inlet with  
Non-Return Valve**

<b>A10AV-SV</b>	<b>C10AV-SV</b>
-----------------	-----------------



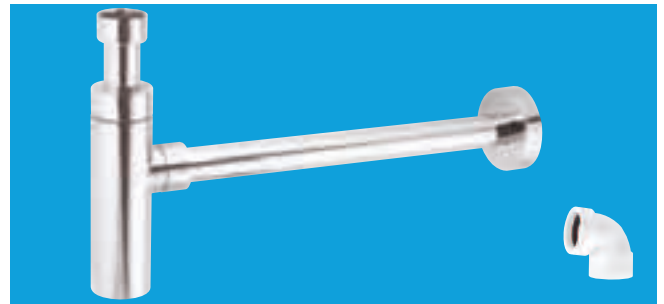
## Chrome Plated Basin Traps, Pipe and Wall Flange

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



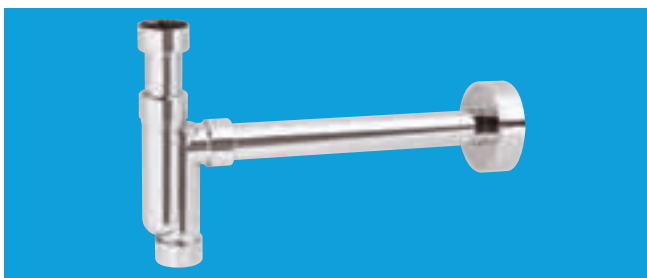
**1 1/4" x 50mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap** with 12" length of 32mm OD CP brass waste pipe and wall flange

Code **CA32MINI-CB**



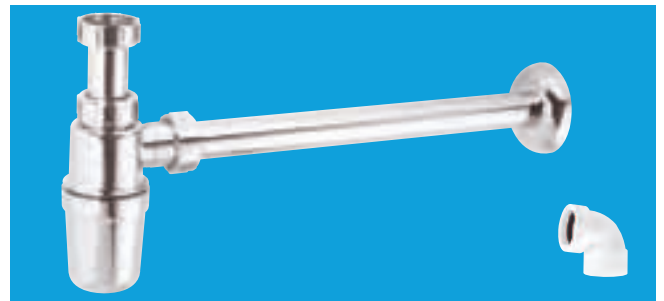
**1 1/4" x 75mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap** with 16" length of 32mm OD CP brass waste pipe and wall flange

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**



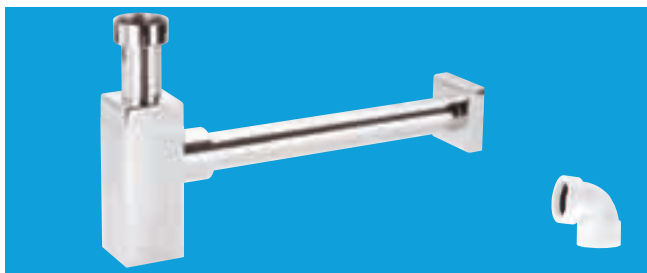
**1 1/4" x 50mm Water Seal Plastic Adjustable Inlet Tubular Anti-Syphon Trap (Silentrap)** with 12" length of 32mm OD CP brass waste pipe and wall flange

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**

- Can be fitted in horizontal or vertical position
- MacValve membrane opens under water pressure to allow discharge to flow freely and then closes to form a seal to prevent foul odour or sewer gas entering the building
- MacValve can be fitted in installations where a non-return valve can be of benefit to the plumbing installation
- MacValve can be used to take the discharge from a pressure relief valve on an unvented domestic hot water storage system. Please refer to guidance notes in approved Document G3 of the Building Regulations
- MacValve having no water seal can never dry out through evaporation or lack of use of an appliance as the membrane remains sealed
- MacValve is not recommended for use with shower trays unless there is access for maintenance



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

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

Code **MACVALVE-3**



**90° Bend** 1¼" female inlet nut x 1¼" BSP male connector

Code **S4U**

**90° Bend** 1½" female inlet nut x 1½" BSP male connector

Code **T4U**

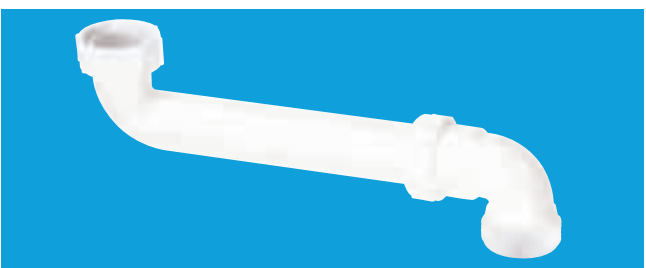


**Straight Connector** 1¼" BSP male thread x 1¼" universal connection

Code **S31U**

**Straight Connector** 1½" BSP male thread x 1½" universal connection

Code **T31U**

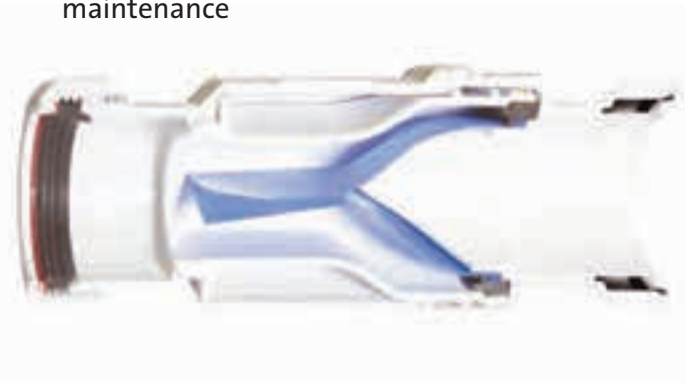


**1½" Space Saver MacValve Inlet**

Code **SSINLET1**

**1¼" Space Saver MacValve Inlet**

Code **SSINLET2**



**MacValve** 1¼" BSP female inlet nut x 1¼" universal compression outlet

Code **MACVALVE-1**

**MacValve** 1½" BSP female inlet nut x 1½" universal compression outlet

Code **MACVALVE-2**

*When MACVALVE-1 and MACVALVE-2 are installed horizontally the flow arrow must be in the uppermost position*

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

# Tubular Traps with 75mm Water Seal

Tubular Traps with 75mm Water Seal



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



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



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



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



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



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



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



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



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



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



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



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



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



**Tubular HandiTrap** 75mm water seal with 1 1/4" and 1 1/2" inlets and outlets. *Note: Trap outlet can be swivelled from 'P' to 'S' position*

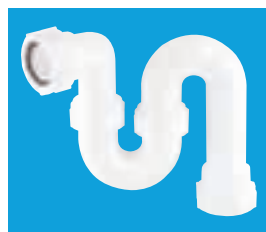
Code	<b>HANDITRAP-T</b>
------	--------------------



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

**Running 'P'**

<b>SR10*</b>	<b>TR10*</b>	<b>SG10*</b>
--------------	--------------	--------------



**Running 'S'**

<b>SS10</b>	<b>TS10</b>	<b>SH10</b>
-------------	-------------	-------------



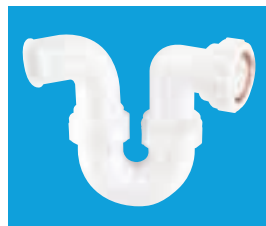
1 1/4" Code
-------------

**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

-	<b>TT10*</b>	-
---	--------------	---



**Running** with 20mm water seal

-	<b>TRSH10</b>	-
---	---------------	---



**Adjustable Inlet** with 19mm water seal

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



**Straight Through** with one cleaning eye

1 1/4" Inlet x 1 1/4" outlet	<b>X10</b>	-	-
------------------------------	------------	---	---

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

1 1/4" Inlet x 1 1/4" outlet	<b>X10V</b>	-	-
------------------------------	-------------	---	---

**Straight Through** with two cleaning eyes

1 1/4" Inlet x 1 1/4" outlet	<b>X10A</b>	-	-
------------------------------	-------------	---	---

1 1/4" Inlet x 1 1/2" 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 **WM14\***

## With Adjustable Inlet



Code **WM11\***



Code **WM12\***

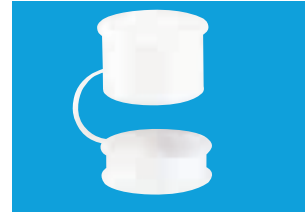


Code **WM15\***



Code **ASC10-CO\***

## Standpipe Trap and Fittings



**Standpipe Cap** with retaining clip

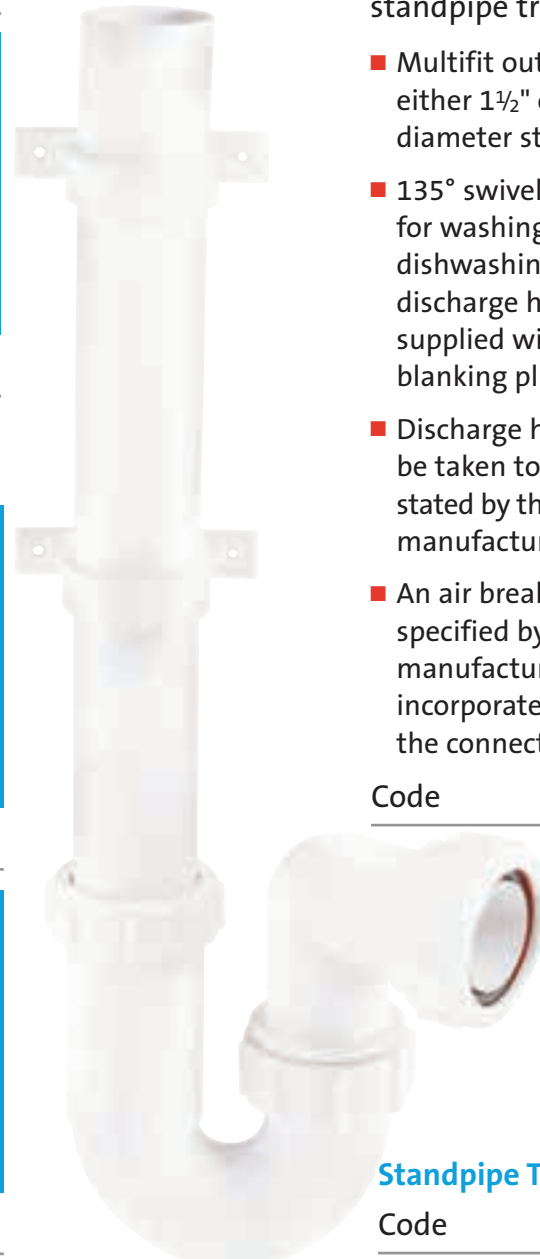
Code **WM3-CAP**



**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\***

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



## Sink Trap with TeeVent

- The TeeVent system, which incorporates a non-return valve, provides an air break and enables the waste system to be sealed. This system has the advantage over a standpipe arrangement in that should a blockage occur, the non-return valve prevents flooding
- 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**

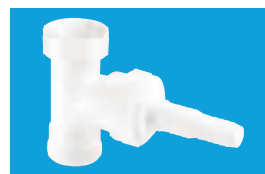
**135° Nozzle** for connection to 1" BSP thread

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"

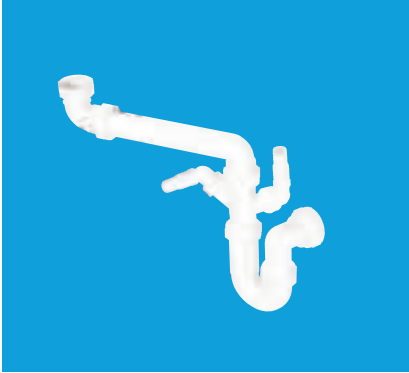
Code **V33S**

- 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

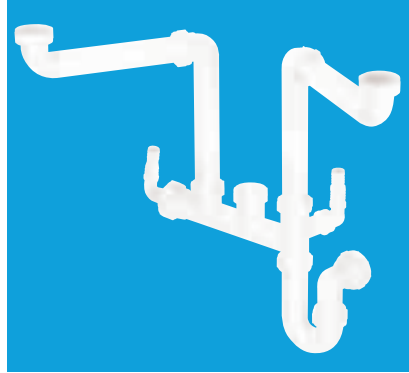
## General

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



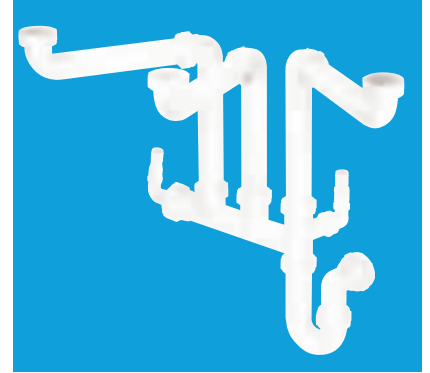
Single Bowl Kit

Code **SSK1**



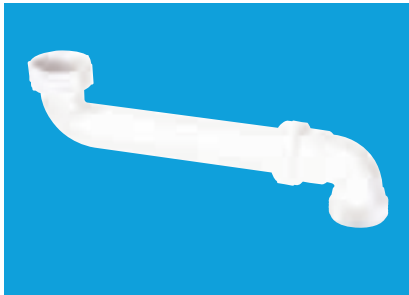
Double Bowl Kit

Code **SSK2**



Three Bowl Kit

Code **SSK3**

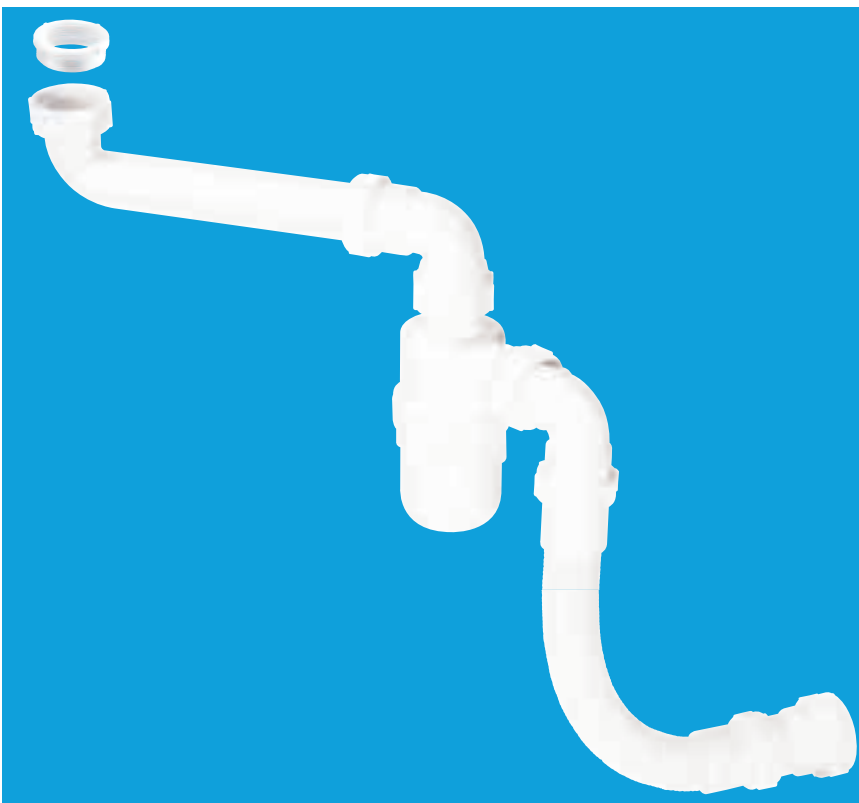


1½" Space Saver Trap Inlet

Code **SSINLET1**

1¼" Space Saver Trap Inlet

Code **SSINLET2**

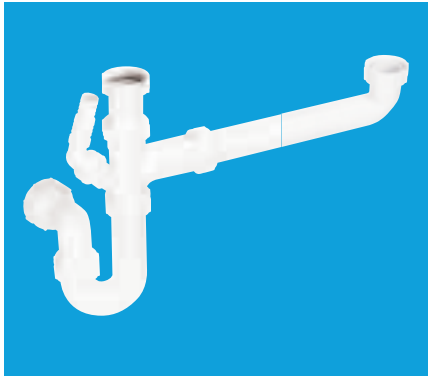


1¼"/1½" Plumbing Kit for adjustable height basin or sink (supplied with T16 1½"/1¼" trap inlet reducer)

Code **FLEXKIT1**

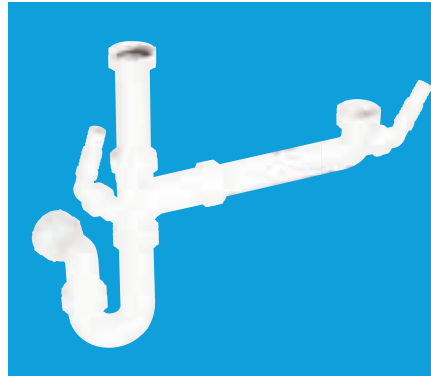
### General

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



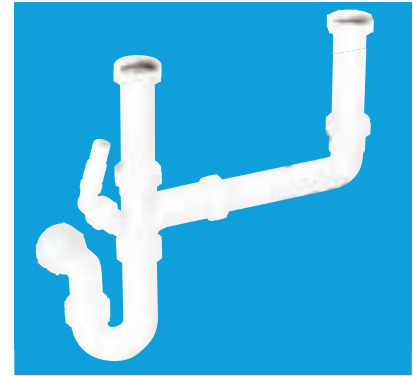
**Bowl and a Half Kit**

Code **SK1**



**Bowl and a Half Kit**

Code **SK1A**

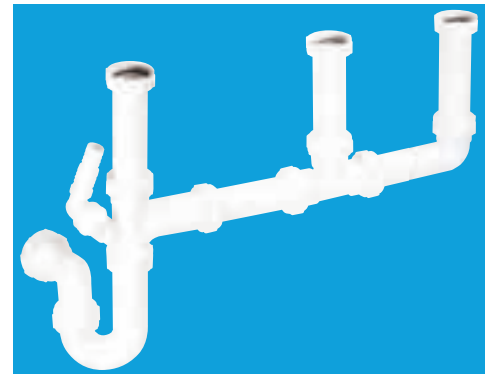


**Double Bowl Kit**

Code **SK2**



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 a condensing boiler. Supplied with support clip

Code **OBT1-CO**

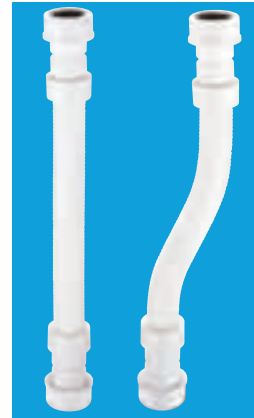


**34mm Open Inlet x 75mm Water Seal Offset Trap** to accept flexible pipe from a condensing boiler. Supplied with support clip

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 a condensing boiler. 19/23mm x 1¼" fitting provided to increase size of discharge pipe before it passes through the external wall

---

Code **SOAK1GR**

### Auxiliary Fittings



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

---

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



**1½" x 1½" x 19/23mm Universal Slip Tee** with universal connection for 19/23mm rigid pipe

---

Code **V1MX-CO**



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

---

Code **CONVALVE**



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

---

Code **R1M-CO**



**50mm Tundish** with 19/23mm pipe outlet

---

Code **TUN-2**

### Mechanical Soil Pipe Boss Connectors



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

---

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

---

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

---

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

---

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



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

---

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

---

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

---

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

---

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

---

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

---

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



**Mechanical Soil and Rainwater Pipe Boss Connector** for 1¼" pipe

---

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



**Reducer in ABS 1¼" plain tail x 19/23mm universal 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 63

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

## Bath Traps without Overflows

	<b>1 1/2" x 75mm Water Seal</b>
	Code <b>L10</b>
	<b>1 1/2" x 75mm Water Seal Anti-Syphon (Silentrap)</b>
	Code <b>L10V</b>
	<b>1 1/2" x 60mm Water Seal (Extended Body)</b>
	Code <b>SM10E</b>
	<b>1 1/2" x 60mm Water Seal (Extended Body) Anti-Syphon (Silentrap)</b>
	Code <b>SM10EV</b>
	<b>1 1/2" x 50mm Water Seal</b>
	Code <b>SM10</b>
	<b>1 1/2" x 50mm Water Seal Anti-Syphon (Silentrap)</b>
	Code <b>SM10V</b>
	<b>1 1/2" x 50mm Water Seal</b>
	Code <b>SMP10</b>
	<b>1 1/2" x 50mm Water Seal Anti-Syphon (Silentrap)</b>
	Code <b>SMP10V</b>

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

	<b>1 1/4" x 19mm Water Seal</b>
	Code <b>P10</b>
	<b>1 1/2" x 19mm Water Seal</b>
	Code <b>Q10</b>

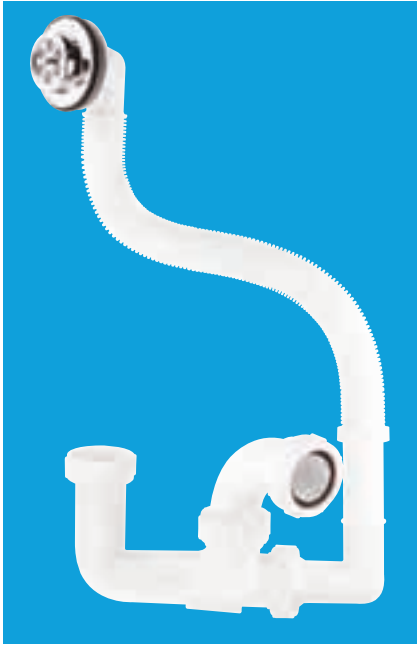
## Bath Trap with Top Access

- 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 112mm
- **FOR EXTENSION KIT SEE PAGE 30**



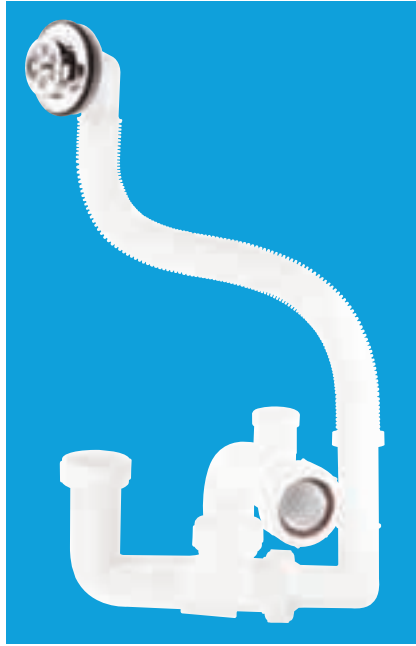
Code **HC2650UK**

## Bath Traps with Overflows



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

Code **FJ10**



**1½" x 75mm Water Seal 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 19mm Water Seal

■ For Bath Waste Outlet Fittings suitable for use with the above traps see page 93

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

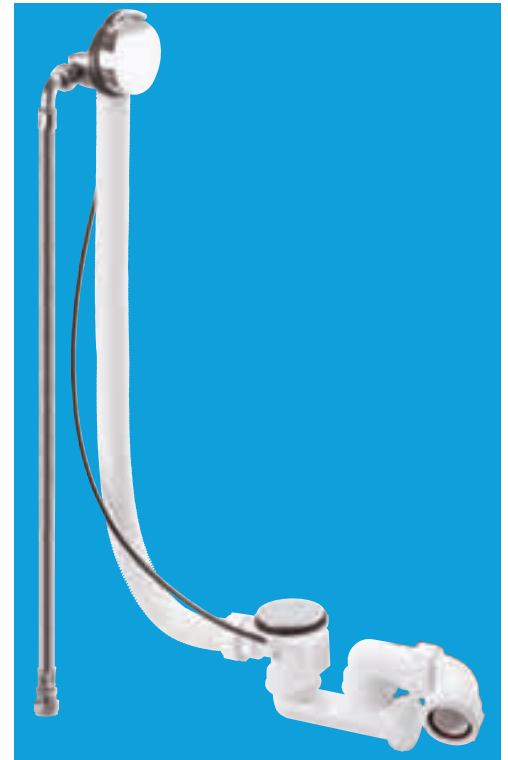
## General

- 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 112mm
- **HCN3365UK** has a standard overflow length of 575mm but is available with a 1m length. Incorporates a CP brass waste and spring-loaded mushroom plug
- **HCN3165UK** has a standard cable and overflow length of 575mm but is available with a 1m cable and overflow. Incorporates CP brass waste and mushroom pop-up plug

Bath Fillers with Trap and Overflow



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



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

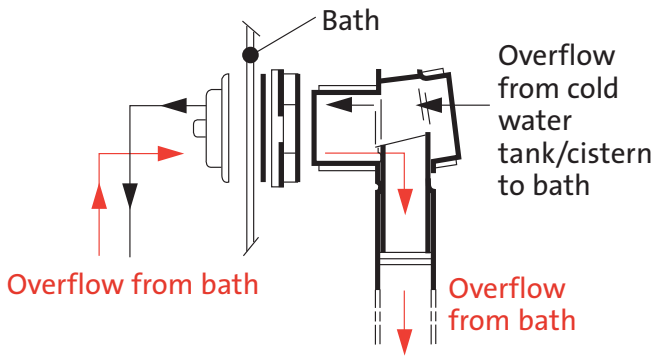
■ **FOR EXTENSION KIT SEE PAGE 30**



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

### Advantages

- Wasteflow is available in various forms that allow greater flexibility for the discharge of cistern overflows and condensate
- No unsightly external overflow pipes
- No damage to outside walls
- No risk of freezing
- No risk to other tenants or public

### Installation

- Wasteflow is supplied with a choice of 50mm, 60mm or 75mm water seal trap
- Wasteflow is installed under the roll of the bath
- Wasteflow fittings shown on page 20 enable a range of connections that may be housed within the roll of the bath or if necessary extended into a duct space
- Overflow pipes connected to Wasteflow should have an adequate and continuous fall to ensure a natural gravity discharge



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

With L10 Trap	<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 93	



**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 22

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



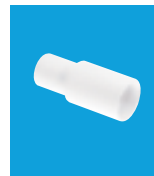
**Straight Connector** 1½" loose nut x connection for 19/23mm pipe

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 71 for WC Overflow Kits with Tundish

### 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**

#### Trap only

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

Code **BATHTRAP50-CPB**

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

Code **BATHTRAP25-CPB**

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

## 110mm x 50mm Water Seal Pushfit Traps

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



Code **WCTRAP4P**



Code **WCTRAP4S**

## Urinal Bowl Syphonic Traps

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



**Syphonic 'P' Trap**

Code **HCUP50UK**



**Syphonic 'S' Trap**

Code **HCUS50UK**

## Condensation Trap

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



110mm pipe

Code **CONTRAP1**

125mm pipe

Code **CONTRAP2**

# 90mm Shower Traps with 50mm Water Seal

90mm Shower Traps with 50mm Water Seal and removable 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 90mm



ST90CP10-HP2



ST90CB10-HP2



ST90CPB-P-HP2

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

High-flow high-performance trap. Overall height 90mm



ST90CP10-HP



ST90CB10-HP



ST90CPB-P-HP

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

Overall height 106mm



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

**Flow Rates**

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

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

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

Overall height 90mm



ST90CPB-S-HP2\*



ST90WH10-HP2\*

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

High-flow high-performance trap. Overall height 90mm



ST90CPB-S-HP\*



ST90WH10-HP\*

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

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

Overall height 106mm



ST90CPB-S-V



ST90WH10-V

90mm Shower Traps with 50mm Water Seal

*Do not pour drain cleaner down these products*

# 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 29

### Flow Rates

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

- 26** Litres per minute tested under a constant **15mm Head of Water**
- 52** Litres per minute tested under a constant **120mm Head of Water**

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**

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
- 1½" Multifit outlet
- 70mm or 85mm mushroom flange available in white plastic or CP stainless steel complete with standard locking nut

70mm White Plastic Mushroom Flange

85mm White Plastic Mushroom Flange

70mm CP Stainless Steel Mushroom Flange

85mm CP Stainless Steel Mushroom Flange

### 19mm Water Seal Trap 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

*Do not pour drain cleaner down these products*





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

Code

**ST70SS85**

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

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



White Plastic

**STW70WH**

**STW85WH**



CP Plastic

**STW70CP**

**STW85CP**



CP Brass

**STW70CPB**

**STW85CPB**



GP Plastic

**STW70GP**

**STW85GP**

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



White Plastic

**STW70WHL**

**STW85WHL**



CP Plastic

**STW70CPL**

**STW85CPL**

**Grid only**



White Plastic

**STWGR-WH**



CP Plastic

**STWGR-CP**

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



White Plastic

**STW70LN**

**STW85LN**

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



White Plastic

**STW70LNL**

**STW85LNL**

**Mushroom Flange**



White Plastic

**STW70WHM**

**STW85WHM**



CP Stainless Steel

**STW70SSM**

**STW85SSM**

## Flow Rates

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

**26**

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

**52**

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

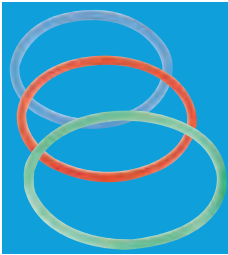
## Trap Washers, Bath and Shower Trap Accessories



1¼"	1½"	2"
Code	Code	Code
<b>Trap Inlet</b>		
RW1	RW2	RW3



<b>Multifit Rubber Olive</b>		
RWM1	RWM2	RWM3



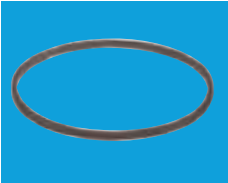
<b>Multifit Plastic Friction Washer</b>		
Blue	Red	Green
PWM1	PWM2	PWM3



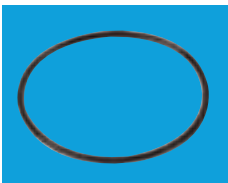
<b>Rubber Washer</b>	
For A10 CUP	ARW10
For C10 CUP	CRW10
For E10 CUP	RW3



<b>Blanking Plug, Nut and Washer</b> for L10, SM10, SM10E bath traps	
Code	L10PLUG
Code	SM10PLUG
Code	SM10EPLUG



<b>Rubber Seal</b> to suit ST90 dip tube	
P-RW-STW90	



<b>Rubber 'O' Ring Seal</b> to suit STW dip tube	
P-OR-SHOWERTRP	



<b>Dip Tube</b> to suit STW trap
19mm water seal
STW19-TUBE
50mm water seal
STW50-TUBE
80mm water seal
STW80-TUBE



<b>113mm CP Plastic Flange</b> to suit ST90 Trap. Supplied complete with dip tube
ST90CPTOP+TUBE



<b>Long Waste</b> for ST90CP10, ST90CB10 and ST90WH10 traps. To suit tray with maximum thickness of 24mm
ST90W/BODY-L



<b>HC2650UK Extension Kit</b> will lower the HC2650UK trap waste outlet position in a bath which has a thicker reinforced base board or frame
HC2650-EXT-KIT

# Shower and Floor Gullies Channel Drain and Tile Drain

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 wet room 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

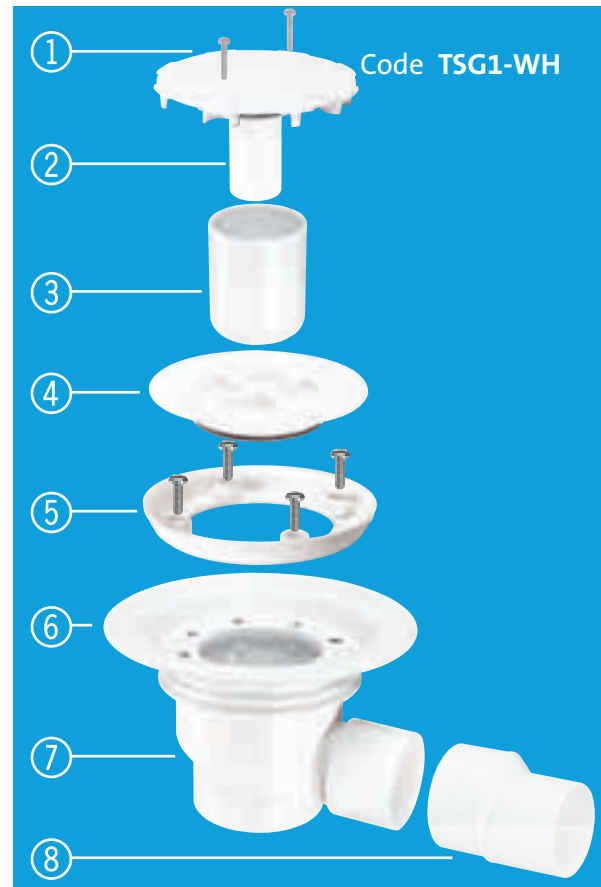
- The Tile Drain is suitable for concrete and suspended timber floors finished with tiles or stone
- Manufactured in grade 304 stainless steel
- Choice of 150mm square stainless steel designer tiles reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm



Code TSG50T6SS

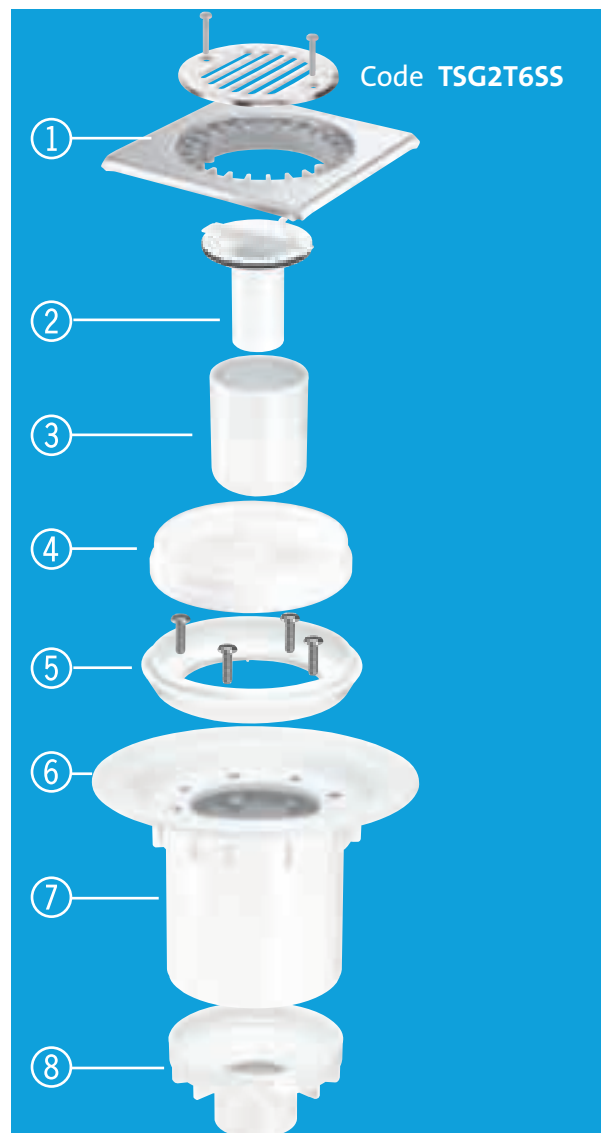
### Sheet Flooring

- 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 34-38 for the full range of Trapped and Untrapped Gullies

# Gullies for use with Sheet Flooring

## Trapped Gullies

Choose the appropriate gully body and cover plate finish required

White Plastic  
Clamp Ring and  
Cover Plate

Polished  
Stainless Steel  
Clamp Ring and  
Cover Plate

CP Brass Clamp  
Ring, CP  
Stainless Steel  
Grated Cover  
Plate

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products



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



With  
securing  
screws

**TSG1-WH**

**TSG1SS**

**TSG1SS-SL-SC**

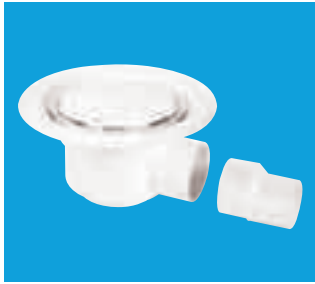
Without  
securing  
screws

**TSG1WH-NSC**

-

**TSG1SS-SL-NSC**

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



With  
securing  
screws

**TSG50WH**

**TSG50SS**

**TSG50SS-SL-SC**

Without  
securing  
screws

**TSG50WH-NSC**

-

**TSG50SS-SL-NSC**

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



With  
securing  
screws

**TSG52WH**

**TSG52SS**

**TSG52SS-SL-SC**

Without  
securing  
screws

**TSG52WH-NSC**

-

**TSG52SS-SL-NSC**

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



With  
securing  
screws

**TSG2WH**

**TSG2SS**

**TSG2SS-SL-SC**

Without  
securing  
screws

**TSG2WH-NSC**

-

**TSG2SS-SL-NSC**

Gullies for use with Sheet Flooring

**Trapped Gullies**

Choose the appropriate gully body and cover plate finish required

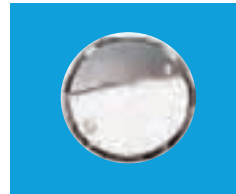
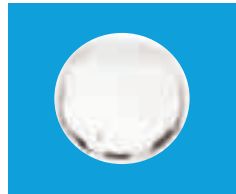
Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

White Plastic  
Clamp Ring and  
Cover Plate

Polished  
Stainless Steel  
Clamp Ring and  
Cover Plate

CP Brass Clamp  
Ring, CP  
Stainless Steel  
Grated Cover  
Plate



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



With  
securing  
screws

**TSG3-WH**

**TSG3SS**

**TSG3SS-SL-SC**

Without  
securing  
screws

-

-

**TSG3SS-SL-NSC**

Gullies show white cover plates for illustrative purposes only

**Untrapped Gullies**

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



With  
securing  
screws

**USG1WH**

**USG1SS**

**USG1SS-SL-SC**

Without  
securing  
screws

**USG1WH-NSC**

-

**USG1SS-SL-NSC**

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



With  
securing  
screws

**USG2WH**

**USG2SS**

**USG2SS-SL-SC**

Without  
securing  
screws

-

-

**USG2SS-SL-NSC**

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



With  
securing  
screws

**USG3WH**

**USG3SS**

**USG3SS-SL-SC**

Without  
securing  
screws

-

**USG3SS-SL-NSC**

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

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

## Trapped Gullies

Choose the appropriate gully body and cover plate finish required

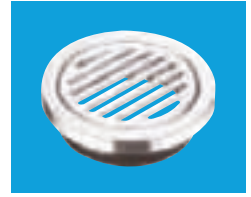
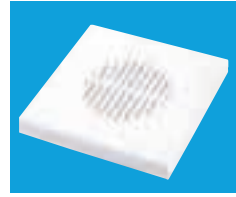
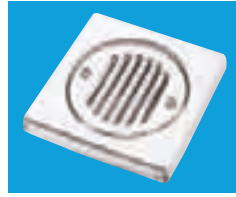
Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

150mm Square Polished Stainless Steel Tile with removable Grid

150mm Square White ABS Tile with removable Grid

125mm Diameter Polished Stainless Steel Grating with removable Grid



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



With securing screws

**TSG1T6SS**

-

-

Without securing screws

**TSG1-T150SS**

**TSG1T6WH**

**TSG1-R125SS**

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



With securing screws

**TSG50T6SS**

-

-

Without securing screws

**TSG50-T150SS**

**TSG50T6WH**

**TSG50-R125SS**

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



With securing screws

**TSG52T6SS**

-

-

Without securing screws

**TSG52-T150SS**

**TSG52T6WH**

**TSG52-R125SS**

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



With securing screws

**TSG2T6SS**

-

-

Without securing screws

**TSG2-T150SS**

**TSG2T6WH**

**TSG2-R125SS**

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



### Trapped Gullies

Choose the appropriate gully body and cover plate finish required

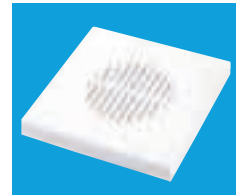
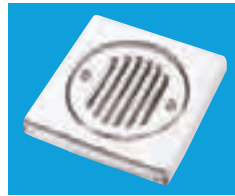
Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

150mm Square Polished Stainless Steel Tile with removable Grid

150mm Square White ABS Tile with removable Grid

125mm Diameter Polished Stainless Steel Grating with removable Grid



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



With securing screws

**TSG3T6SS**

-

-

Without securing screws

**TSG3-T150SS**

**TSG3T6WH**

**TSG3-R125SS**

Gullies show square stainless steel cover plates for illustrative purposes only

### Untrapped Gullies

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



With securing screws

**USG1T6SS**

-

-

Without securing screws

**USG1-T150SS**

-

-

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



With securing screws

**USG2T6SS**

-

-

Without securing screws

**USG2-T150SS**

-

-

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



With securing screws

**USG3T6SS**

-

-

Without securing screws

**USG3-T150SS**

-

-

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

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

- Two-piece gullies have been specifically designed for use with timber floors and floor formers and can be plumbed prior to the installation of the floor or former. See pages 34-40 for product range
- The Valve Shower Gully (VSG) has been developed to satisfy customer demand for a shallow gully suitable for installation in floors where depth is restricted



Code VSG1WH-NSC

# 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 some time, it is advisable to seek guidance from the local building control department prior to use
- The valve acts as a non-return valve, the weight of the water discharge will open the valve and it will reseal when the discharge has ceased thus prohibiting foul air from entering the dwelling
- The valve eliminates the release of foul air due to back flow
- The valve can be easily removed to facilitate easy cleaning of the gully
- The VSG range has a minimum flow rate of 30 litres per minute when tested with a 15mm head of water



**White Plastic Clamp Ring with Cover Plate** and 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>
--	-----------------

See page 52 for gully flow rates

*Gullies without securing screws allow for easier access*

*Do not pour drain cleaner down these products*

## Gullies with Non-Return Valve 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



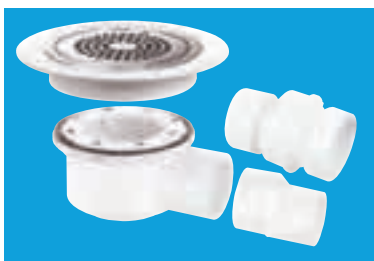
**75mm Water Seal Trap** 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1½" socket reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.  
Overall height 130mm

Code **TSG1-ANTI/LIG**



**50mm Water Seal Trap** 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x 1½" socket reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.  
Overall height 100mm

Code **TSG50-ANTI/LIG**



**Two-Piece Gully, 50mm Water Seal Trap** 2" BS EN 1329-1:2000 solvent weld horizontal outlet, 2" swivel outlet fitting and 2" x 1½" socket reducer. CP brass clamp ring with polished stainless steel anti-ligature grating.  
Overall height 100mm

Code **TSG52-ANTI/LIG**



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

Code **TSG2-ANTI/LIG**

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

## SECTION 2



### For Sheet Flooring

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

Code

TSG1WH-STW1R



### For Sheet Flooring

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

Code

TSG1WHSTW295



### For Sheet Flooring

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

Code

TSG1WH-STW2R



### For Tiled or Stone Floors

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

Code

TSG1T6SS+STW1-R



### For Tiled or Stone Floors

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

Code

TSG1T6SSSTW295



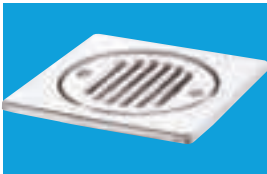
### For Tiled or Stone Floors

**50mm Water Seal Resealing Trap** with 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

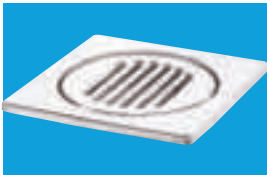
# Tiles and Gratings



**150mm Square Polished Stainless Steel Tile** with removable grid and securing screws. Tile has ABS spigot adaptor for solvent welding to clamp ring

Code

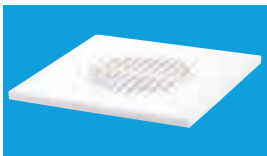
**FGTOP6SS**



**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**



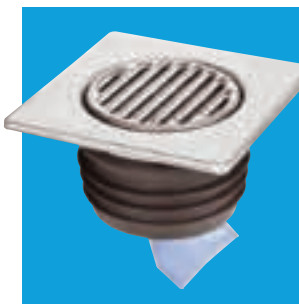
**125mm Diameter Polished Stainless Steel Grating** with removable grid. Grating has a removable ABS spigot adaptor for solvent welding to clamp ring leaving a rubber gasket to fit inside 110mm pipe. Suitable for stone shower bases

Code

**FGTR125STOP**

## 150mm Stainless Steel Tile with Internal Non-Return Valve

- Suitable for wet floor areas where 4"/110mm drainage pipework has been installed to the finished floor level and no waterproofing membrane is required
- The internal non-return valve prevents foul air entering the building
- The 150mm square tile can be fitted on a trapped or untrapped drain
- Ideal for replacement and repair of a damaged tile or problem systems
- Push-fit or solvent weld spigot suitable for direct connection to 4"/110mm drainage pipework
- Valve easily removed for cleaning and maintenance work



150mm square stainless steel tile with silicone non-return valve and removable grid including removable stainless steel mesh filter

Code

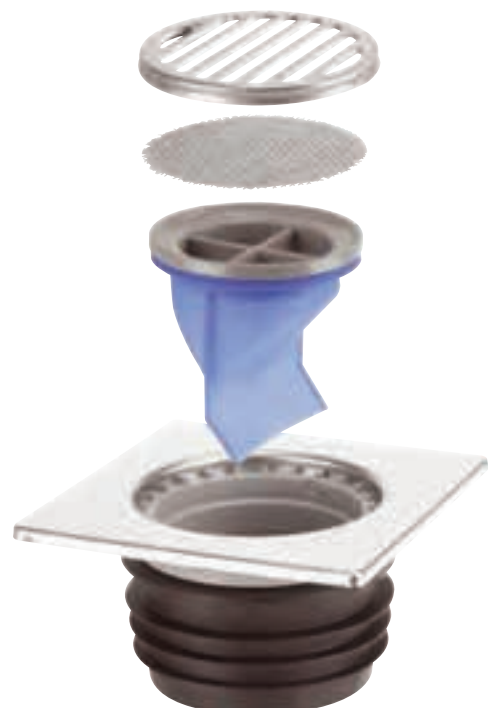
**FGT150-SV-110**



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

Code

**FGT150-SV-110S**



# Gullies suitable for Concrete Ground Floors where a Waterproofing Membrane is not required

## SECTION 2

### Trapped Gully Bodies



#### Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully

manufactured in grey ABS with 2<sup>2</sup>/<sub>3</sub>" 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</sup>/<sub>2</sub>" ABS/PVC pipe, internal fit or 2" ABS/PVC pipe, external fit. Overall height 152mm

For Tiles and Gratings see page 42

Code

MD100



#### Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully

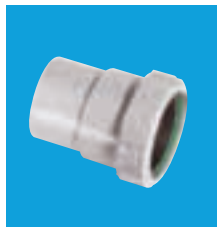
manufactured in grey ABS with 3" solvent weld horizontal outlet. Height can be extended by solvent welding length of 110mm PVC pipe between gully body and tile. Inlet connections are for solvent welding to 1<sup>1</sup>/<sub>2</sub>" ABS/PVC pipe, internal fit or 2" ABS/PVC pipe, external fit. Overall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

For Tiles and Gratings see page 42

Code

MD100-3

### Adaptors for Inlet and Outlet Connections

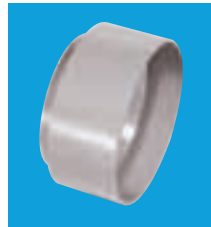


#### Multi-Drain Inlet Fitting

2" solvent weld x 2" universal compression

Code

MD200



#### Multi-Drain Outlet Fitting

3" solvent weld x 110mm solvent weld

Code

MD400

### Untrapped Gullies with Top Access for Tiled Floors



Untrapped Gully with 1<sup>1</sup>/<sub>2</sub>" BS EN 1329-1:2000 solvent weld horizontal outlet and 150mm square polished stainless steel tile with removable grid and securing screws.

Overall height 68mm

Code

FD90-T6SS



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

Overall height 68mm

Code

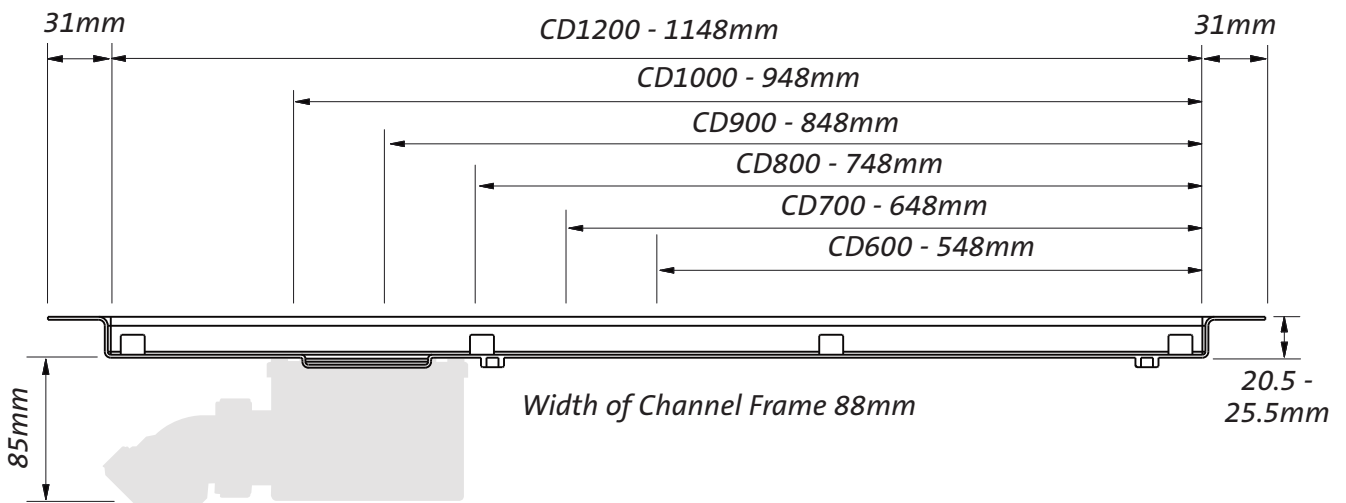
FD90-T6WH

*Do not pour drain cleaner down these products*

# Channel Drain for Tiled Floors

- Supplied with 1½" x 50mm water seal trap with top access for easy cleaning
- Available with polished or brushed finished grade 304 stainless steel cover plate
- Cover plate reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm
- Flow rate 54 litres per minute. Calculated under a constant 120mm head of water
- Supplied with adjustable height support legs for concrete floor installations. Adjustable height 128-170mm
- There are two MCAAlpine ranges: Standard and Slimline channel drains. Both are available in a choice of lengths, designs and finishes

## Standard Channel Drain for Tiled Floors



Channel Drain for Tiled Floors



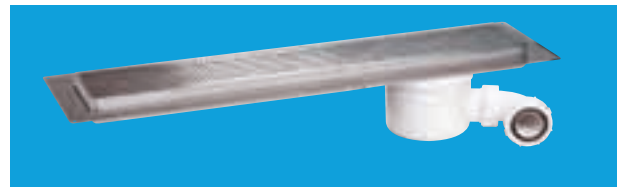
*Do not pour drain cleaner down these products*





**Standard Channel Drain** with brushed finish cover plate

Code	<b>CD600-B</b>
Code	<b>CD700-B</b>
Code	<b>CD800-B</b>
Code	<b>CD900-B</b>
Code	<b>CD1000-B</b>
Code	<b>CD1200-B</b>



**Standard Channel Drain** with grid (brushed finish)

Code	<b>CD600-SQ</b>
Code	<b>CD700-SQ</b>
Code	<b>CD800-SQ</b>
Code	<b>CD900-SQ</b>
Code	<b>CD1000-SQ</b>
Code	<b>CD1200-SQ</b>



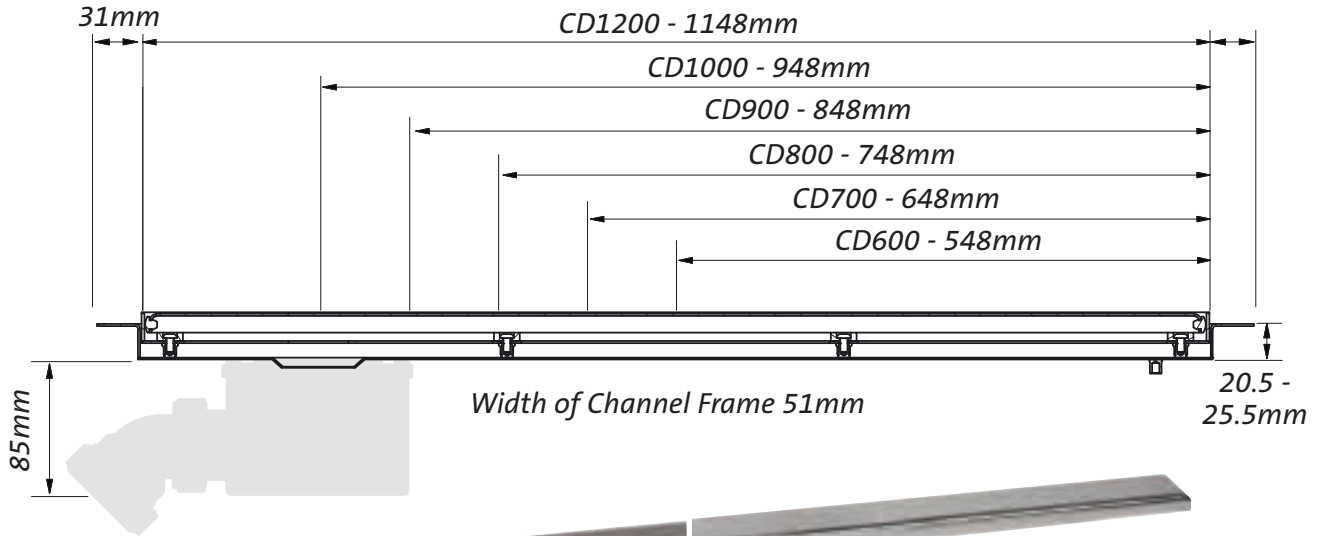
**Standard Channel Drain** with polished finish cover plate

Code	<b>CD600-P</b>
Code	<b>CD700-P</b>
Code	<b>CD800-P</b>
Code	<b>CD900-P</b>
Code	<b>CD1000-P</b>
Code	<b>CD1200-P</b>

*Cover plates available separately on request*

# Channel Drain for Tiled Floors

## Slimline Channel Drain for Tiled Floors



Channel Drain for Tiled Floors



**Slimline Channel Drain** with brushed finish cover plate

Code	<b>CD600-O-B</b>
Code	<b>CD700-O-B</b>
Code	<b>CD800-O-B</b>
Code	<b>CD900-O-B</b>
Code	<b>CD1000-O-B</b>
Code	<b>CD1200-O-B</b>

*Cover plates available separately on request*

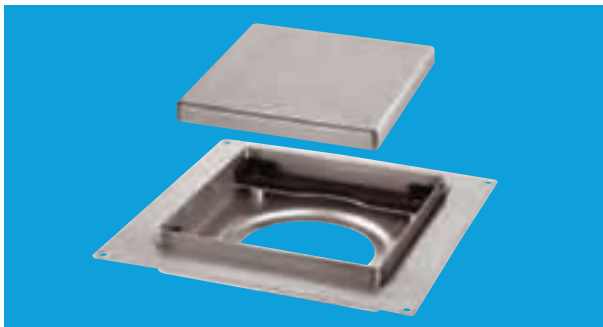


**Slimline Channel Drain** with polished finish cover plate

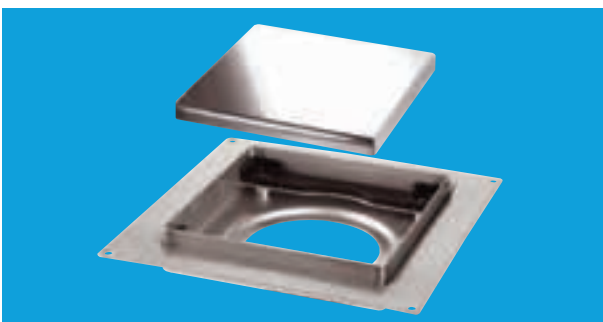
Code	<b>CD600-O-P</b>
Code	<b>CD700-O-P</b>
Code	<b>CD800-O-P</b>
Code	<b>CD900-O-P</b>
Code	<b>CD1000-O-P</b>
Code	<b>CD1200-O-P</b>

*Do not pour drain cleaner down these products*

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



Code **TILE-PLAIN-B**



Code **TILE-PLAIN-P**



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

Code **ST90-70B**



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

Code **ST90-HP2B**



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

Code **ST90-HPB**

Tile Drain for Wet Floor Areas

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

**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

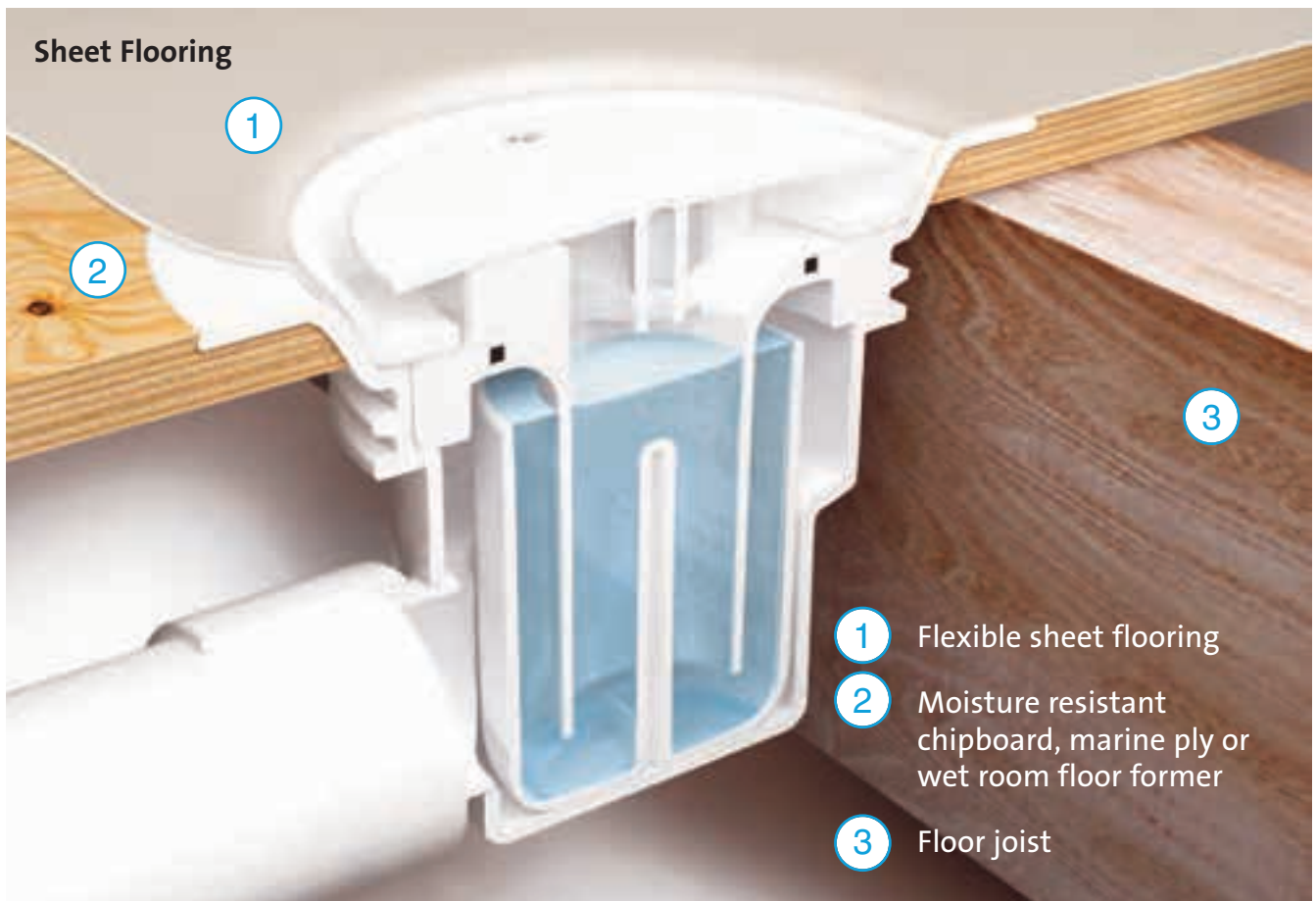
- Set the gully into the floor and ensure that the top surface of the gully flange is flush with, or slightly below, the floor surface on which the flooring is to be laid
- Ensure the gully body is fully supported, do not rely solely on the gully flange for support
- A watertight seal between the underside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

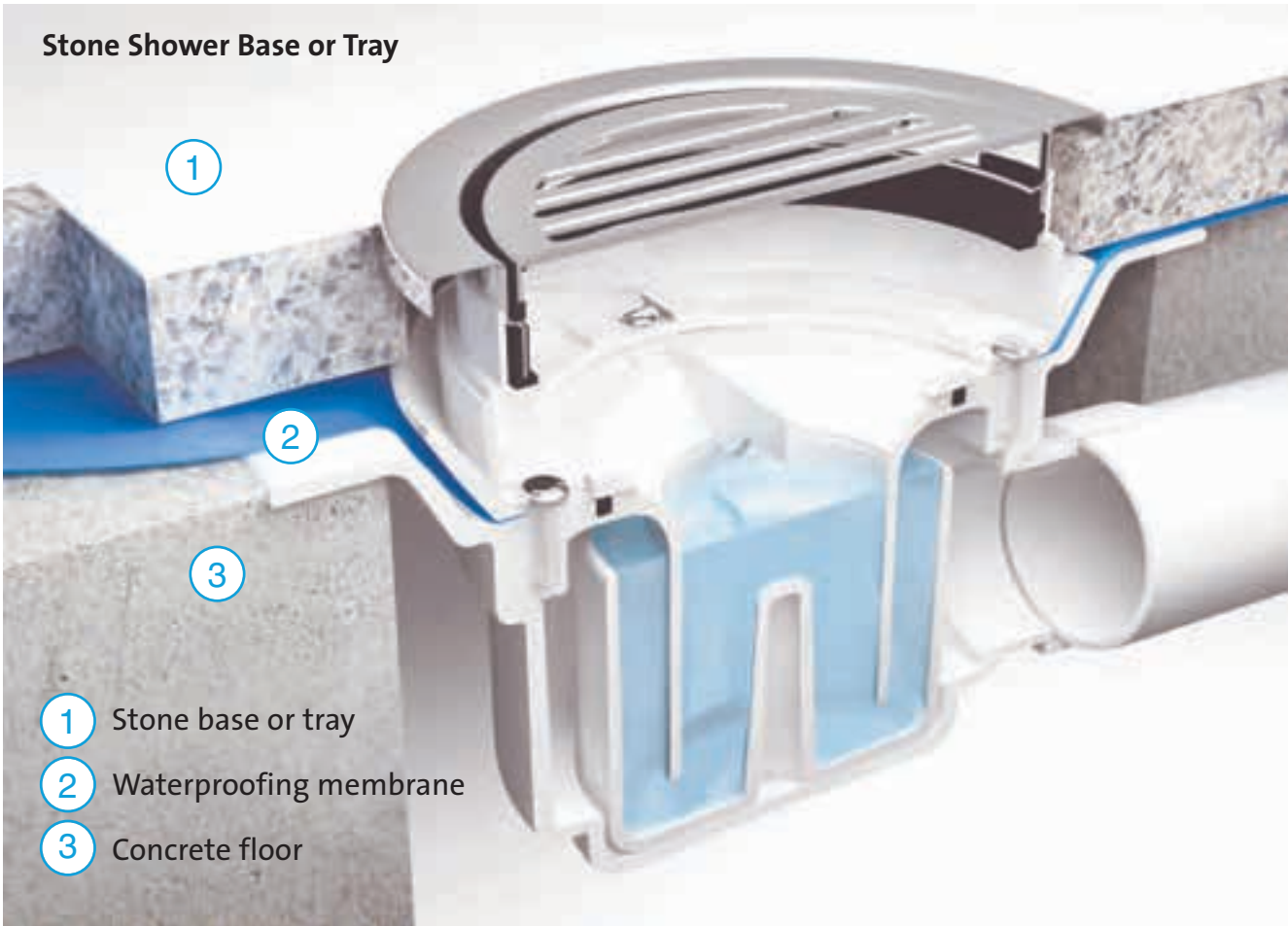
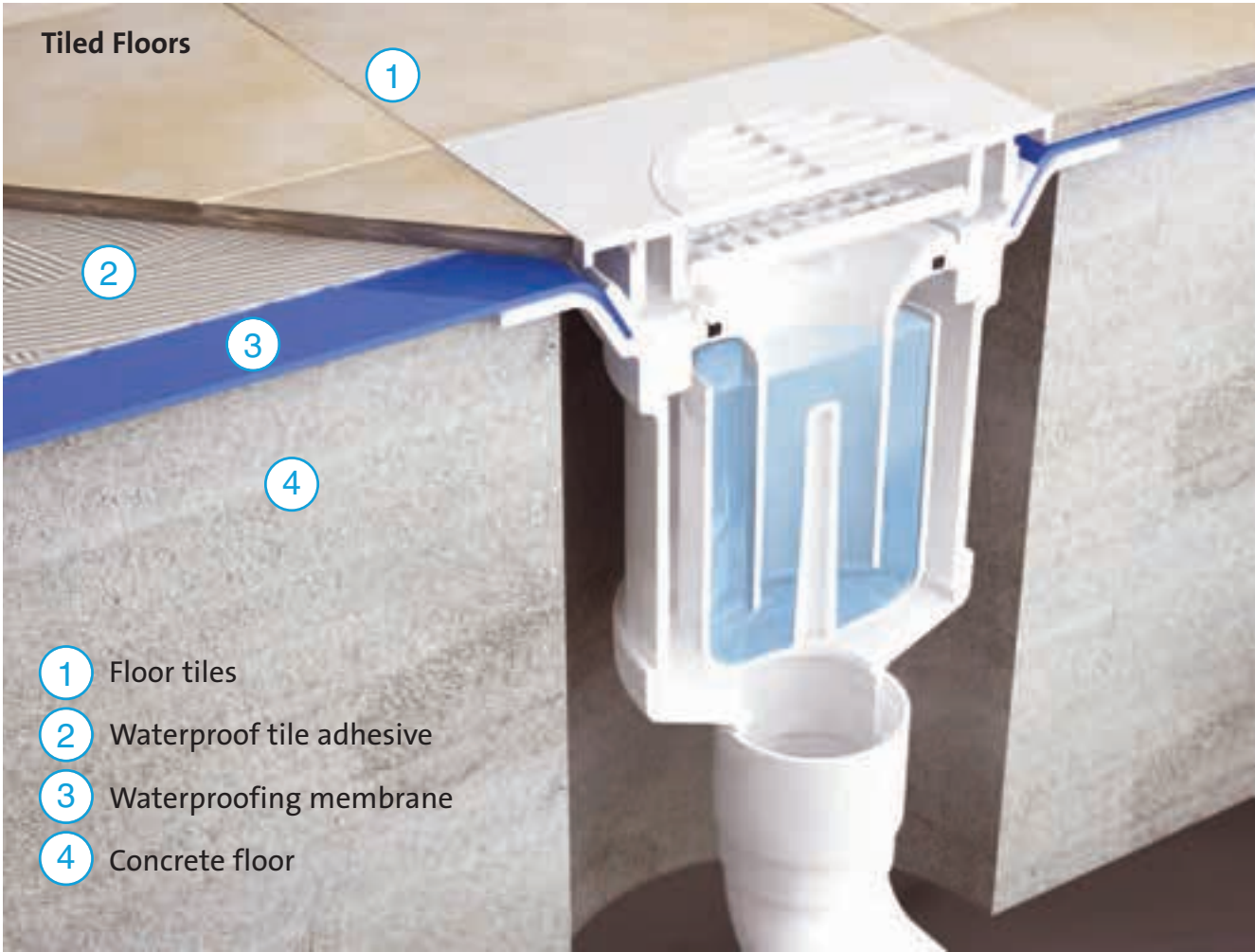
## Tiled Floors

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

## Stone Shower Bases and Trays

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





# Conversion Kits

## Conversion Cover Plate with 1½" Universal Pipe Boss



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

Code

CPTS

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



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

Code **FGTR118TOP**



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

Code **FGTOP6SS**

### Stopper for TSG Dip Tubes

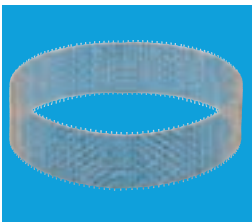


For use with trapped shower gullies TSG1, TSG50, TSG52 and TSG2 models only, either sheet flooring or tiled floor versions. When after installation the gully is not going to be used there is a possibility that the water seal will evaporate. The stopper when inserted into the dip tube will prevent foul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

Code

**TSGSTOP**

### Filter Mesh



**Filter Mesh** to suit USG1 range of untrapped gullies

Code

**MESH-1**

### Stability Leg



**Optional Stability Leg** to suit USG1 range of untrapped gullies

Code

**USGLEG1**

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

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



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


## 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>	
2" x 19/23mm	-	<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 universal connection		
	<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</b>	<b>MT4-TANK</b>	<b>MZ4-TANK</b>

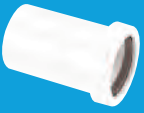
	<b>Blanking Cap</b> for Multifit fittings		
	<b>S23M</b>	<b>T23M</b>	<b>Z23M</b>

	<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>

	<b>Straight Connector</b> pushfit to solvent weld		
	<b>S18-ABS</b>	<b>T18-ABS</b>	

# Flexible Waste Fittings and Non-Return Valves

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

- Maximum effective length 18"
- PVC Plain spigot to suit Multifit and universal outlet traps or waste fittings. Also suitable for solvent welding to pipe BS EN 1329-1:2000
- Universal outlet connection



1 1/4" Code	1 1/2" Code	2" Code
FLEXCON1	FLEXCON2	-

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

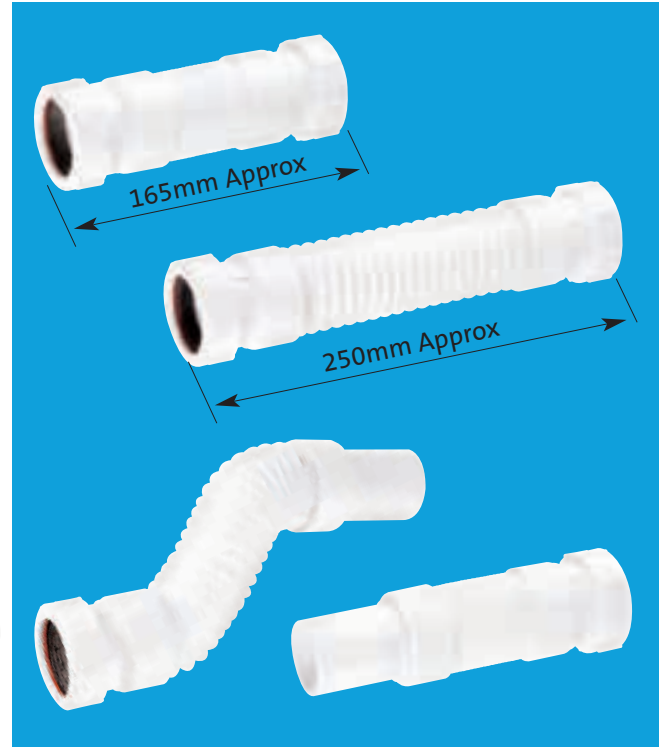
- Maximum effective length 18"
- Universal connection x 1 1/2" BSP coupling nut



-	FLEXCON2-LN	-
---	-------------	---

## Flexible Fittings

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



1 1/4" Code      1 1/2" Code      2" Code

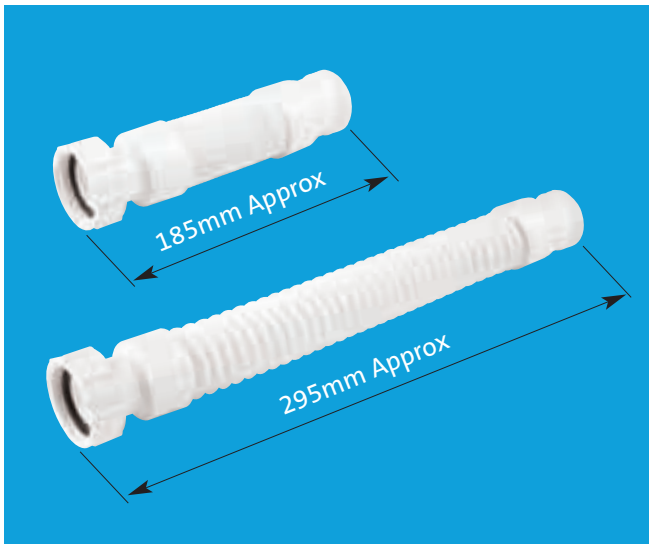
### Universal Connection x Universal Connection

FLEXCON3	FLEXCON4	FLEXCON7
----------	----------	----------

### Universal Connection x PVC Plain Spigot

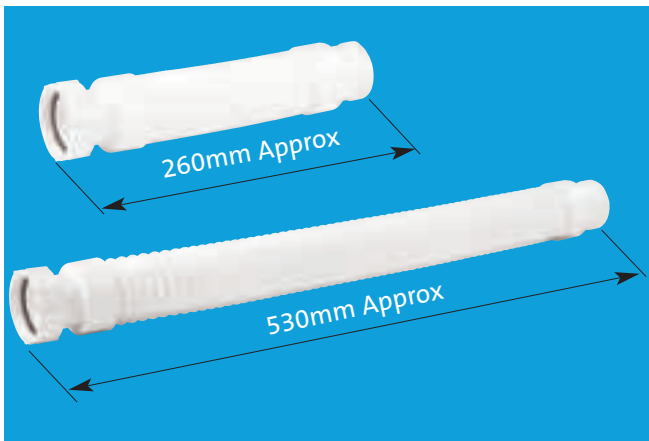
suitable for solvent welding to pipe BS EN 1329-1:2000

FLEXCON5	FLEXCON6	FLEXCON8
----------	----------	----------



1 1/4" BSP coupling nut x 1 1/4" BSP male thread

Code **FLEX-JKS**



1 1/2" BSP coupling nut x 1 1/2" BSP male thread

Code **FLEXCON9**

**FLEXCON9**



**Non-Return Valves**



1 1/4" Code	1 1/2" Code	2" Code
-	<b>T28M-NRV</b>	-

**In-Line Non-Return Valve** with 1 1/2" universal connections and top access for cleaning



-	-	<b>Z28M-NRV</b>
---	---	-----------------

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











-	-	<b>Z28M-NRVS</b>
---	---	------------------

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



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

# Sundry Fittings









## Sundry Fittings

	1¼"	1½"	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-ISON</b>	<b>T13-ISON</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>		
	1¼" x 1"		
	<b>S16</b>	-	-
	1½" x 1¼"	<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


	1¼"	1½"
	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>


## BSP Female x BSP Male Couplings


	1¼"	1½"	
	Code	Code	
<b>BSP Coupling</b>			
1¼" x 1"	<b>S12C</b>	-	
1" x ¾"	<b>S12D</b>	-	
	<b>BSP Coupling</b> waste outlet reducer		
	1½" x 1¼"	-	<b>T12</b>
	<b>BSP Coupling</b>		
	1¾" x 1½"	-	<b>T12B</b>
	2" x 1½"	-	<b>T12C</b>
	2" x 1¼"	-	<b>T12D</b>
	1½" x 1"	-	<b>T12H</b>
	<b>BSP Coupling</b>		
	1½" x 2"	-	<b>T12E</b>
	1½" x 1¾"	-	<b>T12F</b>
	<b>¾" Female Blank Cap</b> for blanking off appliance valves with ¾" male thread		
	Code	<b>NUT-WMVALVE</b>	
	<b>1" Female Blank Cap</b> for traps and fittings with 1" male thread		
	Code	<b>NUT-BLANK-WH</b>	
	<b>1½" Pipe Clip</b> for floor mounted discharge pipe installations		
	Code	<b>T30-CLAMP</b>	
	<b>Stackable Gradient Spacer</b> for use with T30-CLAMP allowing for a fall of varying degrees		
	Code	<b>T30-SPACER</b>	





	1 1/4"	1 1/2"	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>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 1 1/2" to 1 1/4"</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"-1 1/4"	1 1/2"-1 1/4"	2"-1 1/2"
	<b>S26L</b>	<b>T12S</b>	<b>T26L</b>

	1 1/4"	1 1/2"
	Code	Code
	<b>Swept Tee</b>	
	<b>V8L</b>	<b>V1L</b>


	<b>Swept Tee</b>		
	1 1/2" x 1 1/2" x 1 1/4"	-	<b>V21L</b>

	<b>Swept Tee</b> Surefit x 19mm pushfit branch		
	1 1/2" x 1 1/2" x 3/4"	-	<b>V23L</b>
	1 1/4" x 1 1/4" x 3/4"	<b>V24L</b>	-

	<b>Swept Tee</b> BSP nut x BSP thread x nozzle for discharge hose of domestic appliance		
	1 1/2" x 1 1/2" x 3/4"	-	<b>V33L</b>
	1 1/4" x 1 1/4" x 3/4"	<b>V34L</b>	-

	<b>Tee Piece</b> BSP nut x BSP thread x 135° nozzle for discharge hose of domestic appliance		
	1 1/2" x 1 1/2" x 3/4"		<b>V33S</b>

1 1/4"	1 1/2"	2"
Code	Code	Code


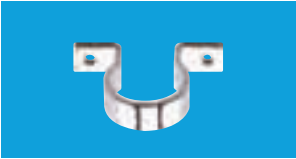






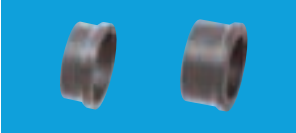

	<b>Straight Connector</b> to soil pipe boss BS EN 1451-1:2000 size*		
	<b>S18M</b>	<b>T18M</b>	<b>Z18M</b>

	<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. S18M 5255
- Surefit waste fittings only suitable for M<sup>c</sup>Alpine HDPE waste pipe

# Chrome Plated Brass Waste Pipe and Fittings

Chrome Plated Brass Waste Pipe and Fittings

	European pipe size	1¼" UK pipe size	1½" UK pipe size
	<b>1m length of CP Brass Pipe</b>		
	<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>Blanking Cap for above fitting</b>		
	-	-	<b>40K-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 for above fittings</b>		
		<b>R/SEAL-35X32</b>	<b>R/SEAL-42X32</b> <b>R/SEAL-42X35</b>
	<b>ABS Solvent Weld Adaptor to convert above fittings to BS EN 1329-1:2000 plastic solvent weld waste pipe</b>		
	<b>ABSCON-32X1.25</b>	<b>ABSCON-35X1.25</b>	<b>ABSCON-42X1.5</b>

NOTE: European sizes only





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

Code **ABS32/35A-CB**



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

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



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

Code **ABS32/35G-CB**



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

Code **MS4-32MM**



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

Code **MS4-32SOLVENT**

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



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

# Drain Connectors and Blanking Off Caps

- Manufactured in polypropylene
- Finned seal spigot for internal connection to cast iron, plastic or clay 4"/110mm pipe
- Ideal for low level connections
- Reducers allow for connection to BS EN 1451-1:2000 and BS EN 1329-1:2000 pipe



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

Code (Black)	<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. **Should only be fitted on ground floor due to a reduction in the internal outlet diameter of the boss pipe connector**

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>



**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" Code	1½" Code	2" 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"/100mm x 1¼" pipe | Code | <b>BOSS110CAST-BL</b>  |
| 4"/100mm 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



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



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



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

### Threaded Boss Connectors



- |   |                       |              |
|---|-----------------------|--------------|
| <b>Straight Connector</b> 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

## 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>



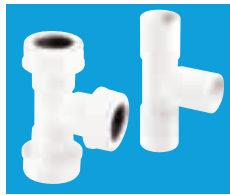
<b>Straight Connector</b> with universal connections for 19/23mm rigid pipe and 25mm flexible pipe	
Code	<b>R1M-CO</b>



<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>



<b>Blanking Cap</b> for overflow pipe with universal connection	
	<b>R23U</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>

	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 **SWL-18**

1 1/2" x 70mm flange x 3 1/2" tail  
 Code **TWL-18**

1 1/4" x 70mm flange x 1 1/2" tail  
 Code **SWS-18**

1 1/2" x 70mm flange x 1 1/2" tail  
 Code **TWS-18**

**Tank Overflow**



**Unslotted Waste without Grid**

1 1/4" x 70mm flange x 3 1/2" tail  
 Code **W10**

1 1/2" x 70mm flange x 3 1/2" tail  
 Code **W20**

1 1/4" x 70mm flange x 1 1/2" tail  
 Code **W11**

1 1/2" x 70mm flange x 1 1/2" tail  
 Code **W21**

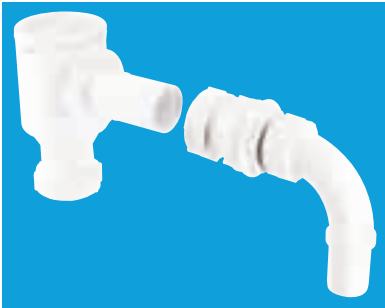
# Water Storage Cistern Fittings (Ex Bye-law 30 Fittings)



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>	-
---	---	-----------	-----------	---



**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>
---	---	------------	------------	------------

## Tundishes and Non-Return Valves

### Tundishes



**Tundish** with 3/4" pushfit outlet

Code

**TUN-1**



**Tundish** with 19/23mm universal outlet

**TUN-2**



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

**TUN-3**

Chrome plated **TUN-3CP**



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

**TUN-4**

Chrome plated **TUN-4CP**



**One-Piece Tundish** 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**

### In-Line 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**



**Convalve Non-Return Valve** with 1 1/4" universal connections

Code

**CONVALVE-125**



**Convalve Non-Return Valve** with 1 1/4" plain tail x 1 1/4" universal outlet

Code

**CONVALVE-125P**

### WC Overflow Kits with Tundish - 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 †

Code **TUNKIT-1**

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

Code **TUNKIT-3**

### Tee Pieces



**Tee Piece** 1 1/2" BSP nut x 1 1/4" universal x 19/23mm universal connection †

Code **V33T**



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

Code **V33T-FP**



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

Code **V33S-22**

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



Code **TUN-3CP**

Code **TUNVALVE**



# WC Connectors

## MACFIT, Flexible and Rigid

SECTION

5



WC Connectors

# WC Connectors

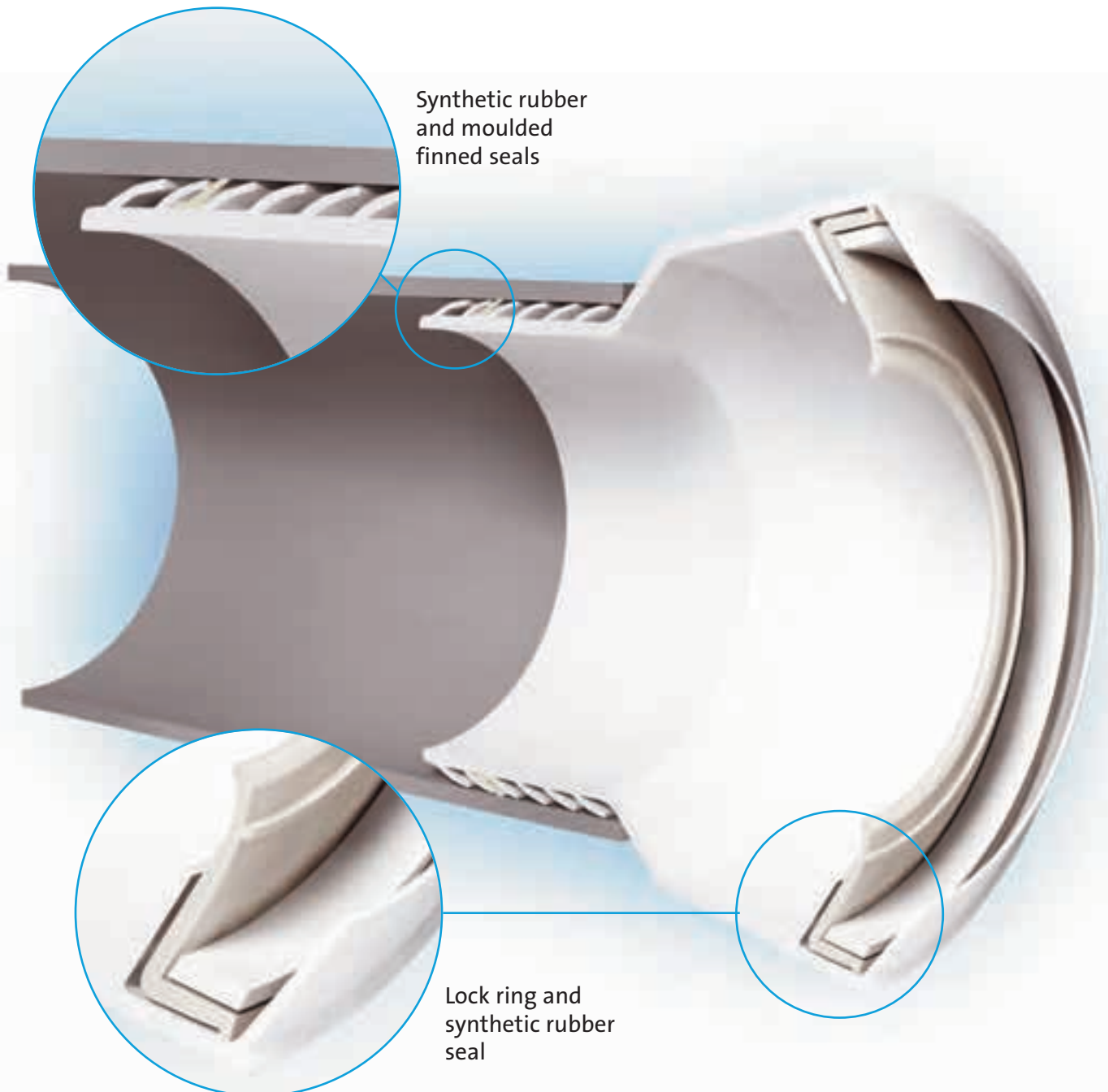
## WC Connectors General

- M<sup>c</sup>Alpine is the only European manufacturer to offer EVA (ethylene vinyl acetate), rigid polypropylene and flexible polypropylene WC connectors
- All outlets fit inside diameter pipe sizes as follows:
  - 110mm Plain End:** Ring seal socket of 110mm soil or underground pipe fittings
  - 4"/110mm:** PVC-U and cast iron
  - 3½"/90mm:** Cast iron
  - 3"/75mm:** PVC-U and cast iron
- Fixing instructions and dimensional leaflet for all WC connectors available on request

## MACFIT

- MACFIT WC connectors are manufactured in EVA with synthetic rubber and moulded finned seals
- MACFIT incorporates a new 'lock ring' inlet seal (patent pending) to give a superior, tighter connection to the WC pan outlet
- European Patent No. 1655528

MACFIT WC Connectors





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

Code **MAC-1**



Straight  
97-107mm Inlet  
3 1/2"/90mm Outlet

Code **MAC-3**



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

Code **MAC-3C**



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

Code **MAC-4**



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

Code **MAC-4A**



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

Code **MAC-7A**



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

Code **MAC-8**



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

Code **MAC-8L**



Straight Extension  
Adjustable Length  
4"/110mm Outlet

Code **MAC-EXTA**



Straight Extension  
Adjustable Length  
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**

### Short Straight Connector

- Connector can be used where the soil pipe has already been installed with only the final fixing of the WC pan to be connected
- Soft synthetic rubber inlet connection secured by a worm drive hose clip provides a secure and reliable connection to the WC pan spigot

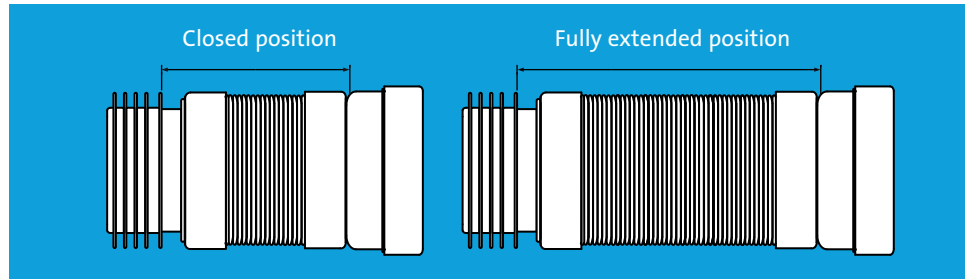


Overall length of  
connector 88mm  
97-107mm Inlet -  
4"/110mm Outlet

Code **MAC-1-BTW**

# 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 572125072a 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



Closed 170mm	>	Extended 410mm	Closed 140mm	>	Extended 290mm	Closed 100mm	>	Extended 160mm
-----------------	---	-------------------	-----------------	---	-------------------	-----------------	---	-------------------

**WC-F26R**

**WC-F23R**

**WC-F18R**

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



180mm	>	380mm	150mm	>	280mm
-------	---	-------	-------	---	-------

**WC-F26RV**

**WC-F23RV**

-

## 97-107mm Inlet 3½"/90mm Outlet



170mm	>	410mm	140mm	>	290mm	100mm	>	160mm
-------	---	-------	-------	---	-------	-------	---	-------

**WC-F26S**

**WC-F23S**

**WC-F18S**

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



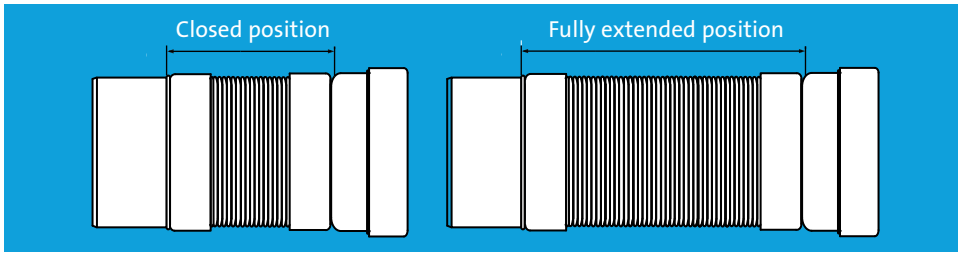
180mm	>	380mm	150mm	>	280mm
-------	---	-------	-------	---	-------

**WC-F26SV**

**WC-F23SV**

-





**97-107mm Inlet 110mm Plain End Outlet**

Closed > Extended      Closed > Extended  
160mm > 380mm      130mm > 260mm

**WC-F26P**

**WC-F23P**

-



**97-107mm Inlet 110mm Plain End Outlet 1 1/4" Universal Vent Boss**

170mm > 380mm      140mm > 260mm

**WC-F26PV**

**WC-F23PV**

-

**90° Flexible WC Connectors**



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

Closed > Extended  
190mm > 270mm

Code **WC-CON8F18**



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

220mm > 400mm

Code **WC-CON8F**



**97-107mm Inlet  
4"/110mm Outlet  
1 1/4" Universal Vent Boss**

220mm > 400mm

Code **WC-CON8FV**

**Flexible Extensions for WC Connectors**



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

Closed > Extended  
95mm > 195mm

Code **EXTA-F**



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

95mm > 195mm

Code **EXTB-F**

# Flexible WC Connectors for Back to Wall WC Pan

## Flexible WC Connectors for Back to Wall WC Pan

- Soft synthetic rubber inlet connection secured by a worm drive hose clip provides a secure and reliable connection to the WC pan spigot prior to the final placement against wall or furniture
- There is no British Standard for flexible WC connectors but M<sup>c</sup>Alpine WC connectors comply to German Standard DIN 1389:2000-05 for flexible WC connectors

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



Closed 150mm      Extended 310mm

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

Code **WC-F21R**

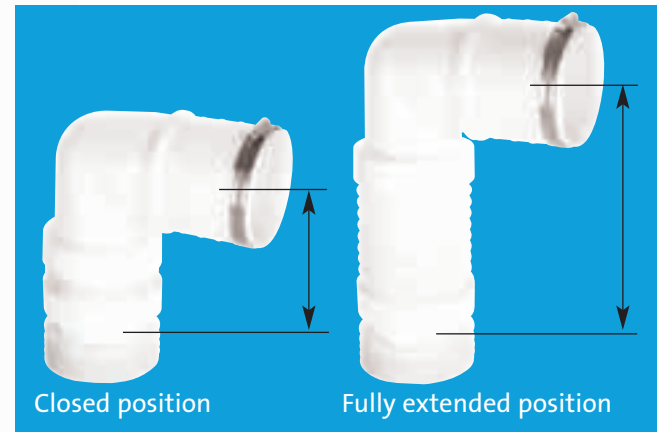


**97-107mm Inlet - 3 1/2"/90mm Outlet**

Code **WC-F21S**

Patents pending

### 90° Short Bend in vertical position



Closed 170mm      Extended 250mm

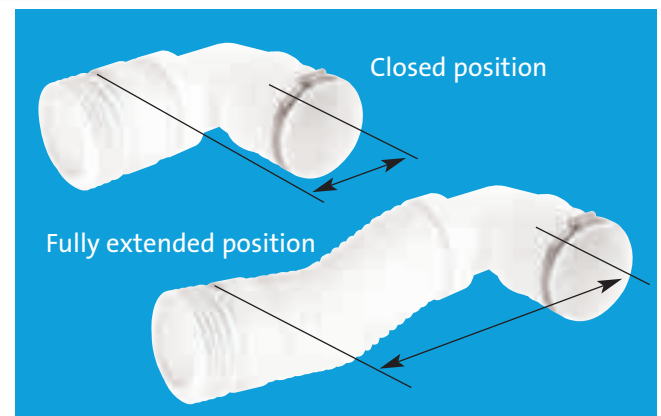
**97-107mm Inlet - 4"/110mm Outlet**

Code **WC-CON8F18-BTW**

**97-107mm Inlet - 3 1/2"/90mm Outlet**

Code **WC-CON8F18-S-BTW**

### 90° Long Bend in horizontal position



Closed 230mm      Extended 480mm

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

Code **WC-CON8F-BTW**

**97-107mm Inlet - 3 1/2"/90mm Outlet**

Code **WC-CON8F-S-BTW**

■ Dimensional leaflet available on request



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

Code **WC-CON1**



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

Code **WC-CON1V**



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

Code **WC-CON2**



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

Code **WC-CON2B**



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

Code **WC-CON3**



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

Code **WC-CON4**



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

Code **WC-CON4A**



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

Code **WC-CON4B**



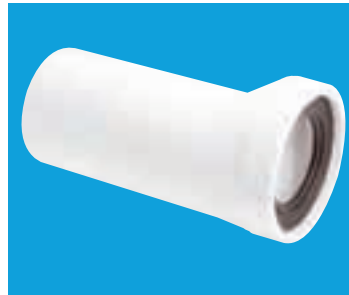
**20mm Offset Adjustable Length**  
97-107mm Inlet  
4"/110mm Outlet

Code **WC-CON5**



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

Code **WC-CON5B**



**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**

# Rigid WC Connectors



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

Code **WC-CON8**



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

Code **WC-CON8V**



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

Code **WC-CON8E**



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

Code **WC-CON9**



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

Code **WC-CON9V**



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

Code **WC-CONQ**



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

Code **WC-CONQP**

## Extension Pieces



Straight Extension  
Adjustable Length  
4"/110mm Outlet

Code **WC-EXTA**



Straight Extension  
Adjustable Length  
3½"/90mm Outlet

Code **WC-EXTB**



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

Code **WC-EXTC**



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

Code **WC-EXTD**

## Straight Telescopic WC Socket Extension

- Short telescopic socket extension connector to fit the socket of any MACFIT, Rigid or Flexible WC connector
- Can extend a WC connector already installed and requiring alteration before final placement to the WC pan
- Provides adjustment to the required length where soil pipe already installed



Overall length of telescopic socket extension piece  
133mm

Code WC-CON-EXT

## WC Connector Accessories

### Boss Pipe for use with WC Connectors

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



**3½"/90mm x 4"/110mm Connector** with 'O' seal socket to fit any 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. *As illustrated opposite with WC-CON8 (cut down to required length)*

Code WC-BP1



### Anti Cross-Flow and Rodent Barrier Valve

- Will prevent cross-flow if fitted to WC pans that are installed back to back
- For use where special measures are necessary for control of rodents as recommended in Approved Document H1 The Building Regulations 2000 (2002 edition)
- Manufactured in black polypropylene to prevent light penetration
- Deters rodents from entering building through WC
- For use with any 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**

### WC Connector Wall Flange



To fit over Rigid WC Connector with 4"/110mm Rubber Seal Outlet

Code **WC17-90**

To fit over 4"/110mm Soil Pipe or Rigid WC Connectors with Plain End Outlet

Code **WC17-110**

To fit over Collar of Flexible WC Connector

Code **WC17-114**

### WC Frame Connector Kit



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

Code **FPKIT-3**

## Air Admittance Valves (Ventapipe)

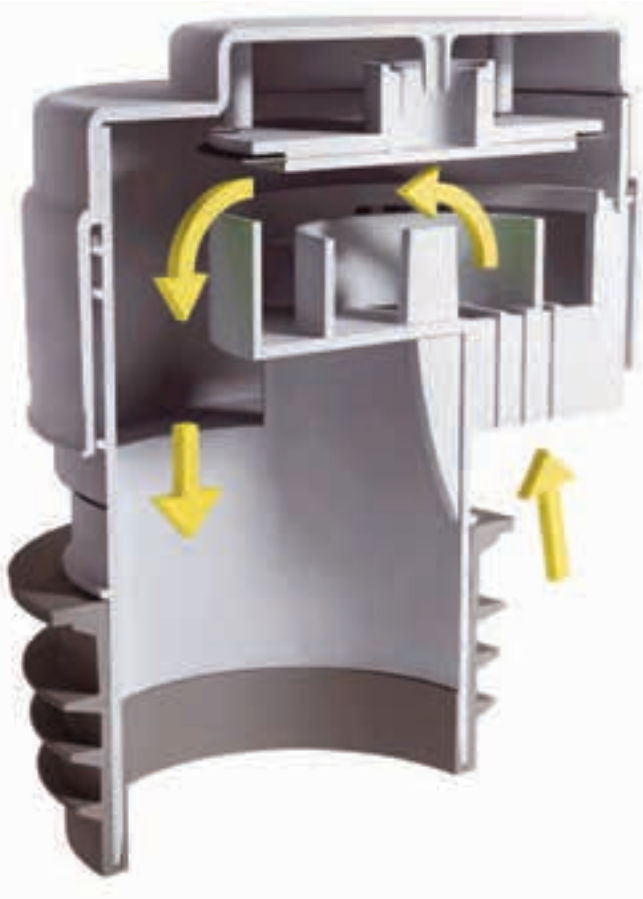
SECTION

6

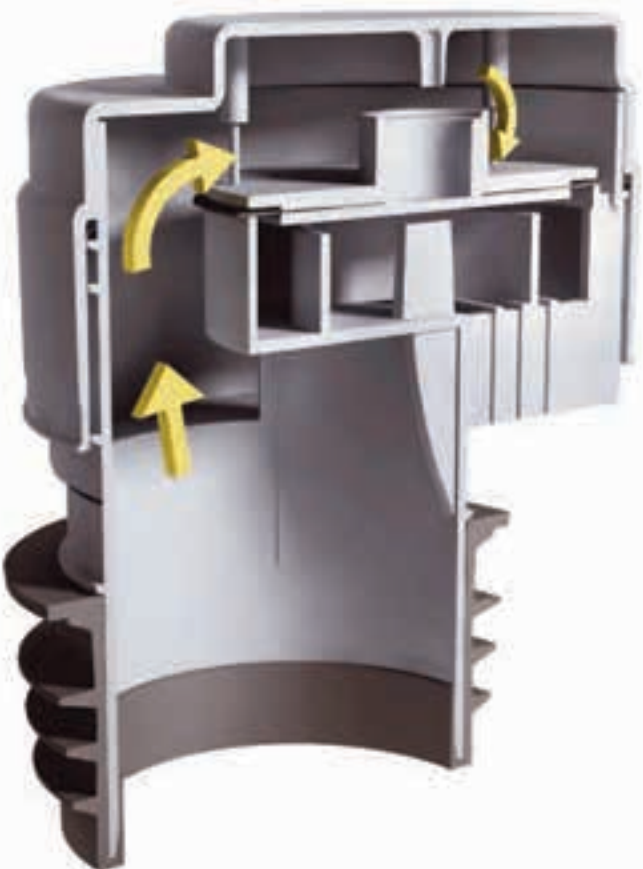


Air Admittance Valves (Ventapipe)

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



### Quality Certificate

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



### Advantages

- Ventapipe enables ventilating pipes to be terminated inside the building thereby avoiding roof penetration
- Ventapipe allows greater flexibility in design of new drainage systems
- Ventapipe allows greater flexibility when installing additional appliances to existing drainage systems
- Ventapipe eliminates problems of freezing associated with external pipes
- Ventapipe is suitable for use with either plastic or metal pipes
- Ventapipe offers cost savings in both material and labour

### Information for General Guidance only

- Underground foul drainage should be ventilated by a flow of air. A ventilating pipe should be provided at or near the head of each main drain
- An open ventilating pipe, without an air admittance valve, should be provided on any drain fitted with an intercepting trap, particularly on a sealed system and on any drain subject to surcharge
- Air admittance valves should not be used when the soil stack provides the only ventilation to septic tanks or cesspools
- Air admittance valves should not be used where there is no open ventilation on a drainage system or through connected drains and therefore alternative arrangements to relieve positive pressures should be considered
- Air admittance valves should not be used outside buildings or in dust laden atmospheres. They should be located preferably in a

non-habitable space, such as a duct or roof. The space should have adequate ventilation and be accessible for maintenance

- Air admittance valves should be removable to give access for clearance of blockages
- Air admittance valves can indicate the probability of blockages within the drainage system. This can be indicated by high water levels in WC bowls following flushing and the slow draining of appliances upstream from the blockage
- Sizes and limitations upon the use of air admittance valves are subject to national and local regulations and practice. If further detail is required check with the local authority building control office
- Kinetic ram guns should not be used to shift blockages on installations where air admittance valves are fitted as undue pressure and blowback may cause malfunction

### Ventapipe 15, 25, 40 and 50 Application













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



Code VP100

# Air Admittance Valves (Ventapipe)

## Air Admittance Valves (Ventapipe)

	Code	Class	Air Flow Capacity (Litres per second)	Colour
 <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 1 1/4", 1 1/2" or 2" BS EN 1329-1:2000 solvent weld waste pipe</p> 	<b>VPSF-40/50</b>	A1	9.1	White

Code	Class	Air Flow Capacity (Litres per second)	Colour
------	-------	--	--------



**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
------------	---	-----	-------



**Ventapipe 25** with integral 1¼" Multifit tee

<b>VP4</b>	-	2.0	White
------------	---	-----	-------

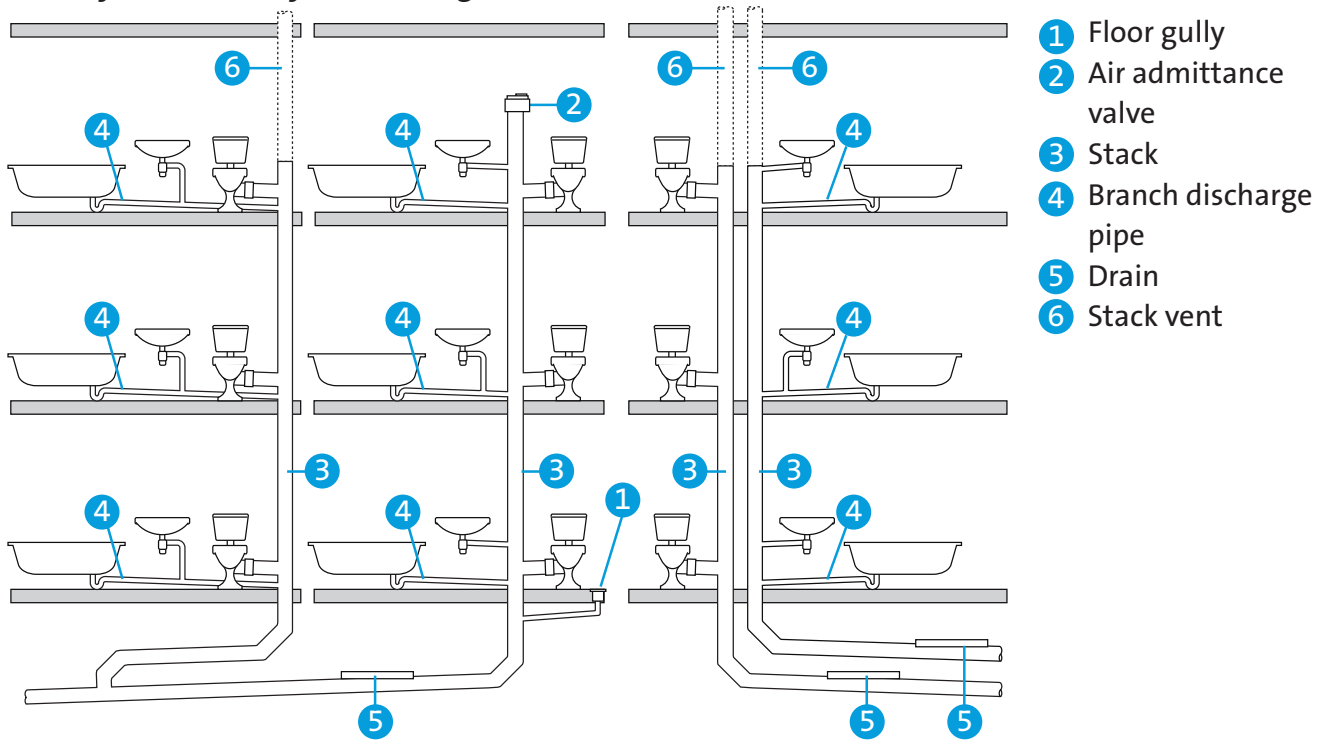


**Ventapipe 15** with 1¼" universal outlet

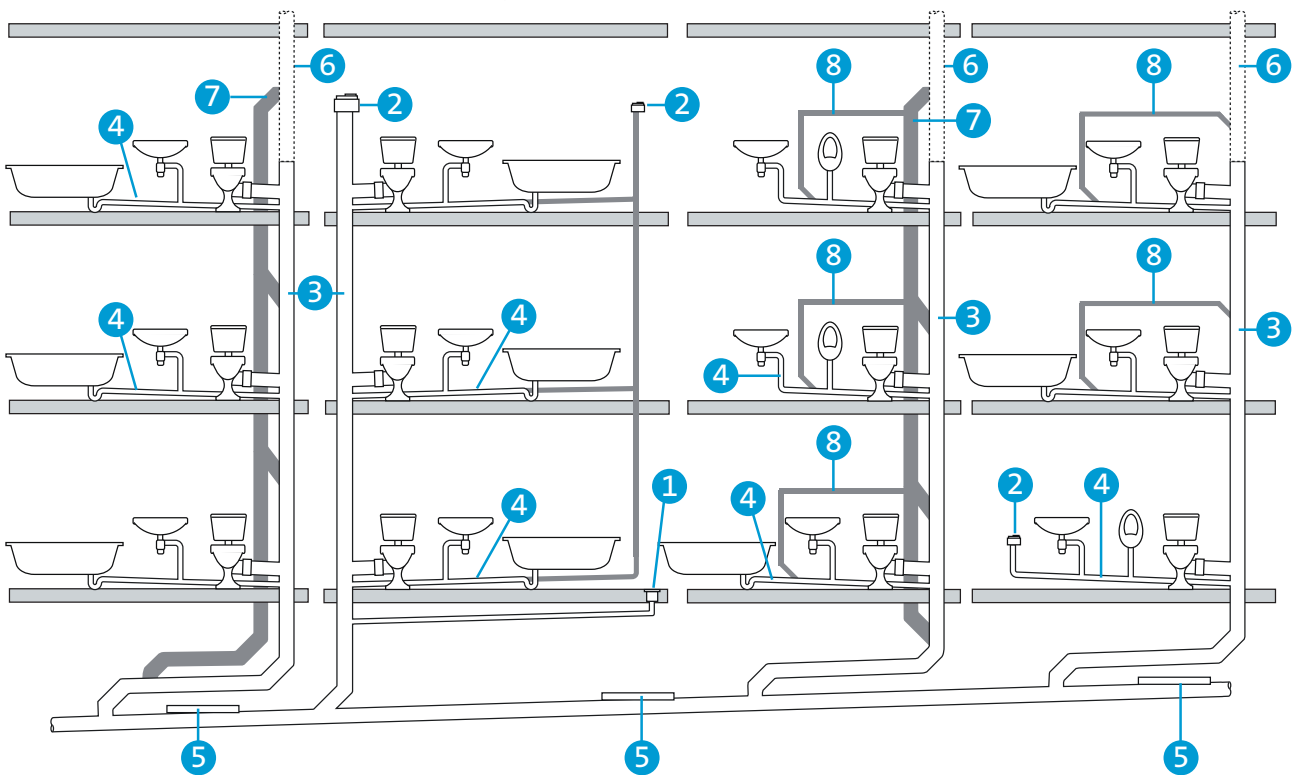
<b>VP15M</b>	-	0.5	Grey
--------------	---	-----	------

### 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" slotted tail with spring-loaded mushroom plug

Code **CW60-CB**



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

Code **CW60SP-CB**



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

Code **CWU60-CB**



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

Code **CWU60SP-CB**



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

Code **DWU60-CB**



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

Code **BW60SPH-CB**



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

Code **CW60SQ-CB**



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

Code **BWU60SPH-CB**



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

Code **CWU60SQ-CB**



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

Code **GWAL-CB**

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

- Centre Pin dry fixing connection for a quick and simple installation
- Suitable for basins with or without overflow
- Polished Stainless Steel Mushroom Plug
- CP Brass or White Plastic waste body



#### Centre Pin Model

	Code
1¼" x 60mm polished stainless steel flange with spring-loaded mushroom plug - CP brass body	<b>CWP60-SS</b>



#### Centre Pin Model

	Code
1¼" x 60mm polished stainless steel flange with spring-loaded mushroom plug - white plastic body	<b>CWP60-SSP</b>

### Centre Pin Basin Wastes - Stainless Steel Flange

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



#### Centre Pin Model

	Code
1¼" x 60mm flange with plug	<b>BSW1P</b>
1¼" x 60mm flange, plug with CP chain and stay	<b>BSW1PC</b>
1½" x 60mm flange with plug	<b>BSW2P</b>
1½" x 60mm flange, plug with CP chain and stay	<b>BSW2PC</b>



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

1¼" x 60mm flange with plug	<b>BSW11P</b>
1¼" x 60mm flange, plug with CP chain and stay	<b>BSW11PC</b>

### Backnut Basin Wastes - Chrome Plated Plastic



#### Backnut Model

1¼" x 60mm flange x 3½" slotted tail with plug	<b>BW1</b>
1¼" x 60mm flange x 3½" unslotted tail with plug	<b>BW1A</b>



#### Backnut Model

1¼" x 60mm flange x 3½" slotted tail with CP plug	<b>CW1</b>
---	------------

# Basin Waste Outlets

## Backnut Basin Wastes



Stainless steel flange - white plastic body

1¼" x 60mm flange x 3½" slotted tail with plug

Code

**BSW1**

1¼" x 60mm flange x 3½" unslotted tail with plug

**BSW2**



Stainless steel flange - black plastic body

1¼" x 60mm flange x 3½" slotted tail with plug

**BSW12**

1¼" x 60mm flange x 3½" slotted tail, plug with triangle

**BSW12T**

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

**BSW12C**



White plastic

1¼" x 60mm flange x 3½" slotted tail with plug

**W1**

1¼" x 60mm flange x 3½" unslotted tail with plug

**W1A**

## Combined Wastes and Overflows for Vanity Basin

**Centre Pin Models** - stainless steel flange

**Banjo Model** - white plastic



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



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



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

Basin Waste Outlets

Code **FVW1P\***

Code **FVW1PC**

Code **FVW1PW**

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



### Bath Wastes



**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**



**Backnut Model** 1 1/2" x 70mm CP brass flange x 58mm tail with swivel plug

Code **CBW70-SW**



**Backnut Model** 1 1/2" x 70mm CP brass flange x 58mm tail with spring-loaded mushroom plug

Code **CBW70-CLK**



**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 **CBWF70CB**

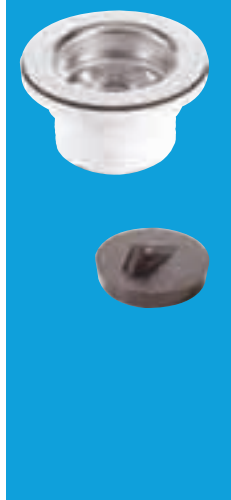
### Centre Pin Bath Wastes - Stainless Steel Flange



**Centre Pin Model**

1 1/4" x 70mm flange with plug

Code **BSW9P**



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

Code **BSW9PC**



1 1/2" x 70mm flange with plug

Code **BSW15P**



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

Code **BSW15PC**

### Backnut Bath Wastes



**Backnut Model** - stainless steel flange

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

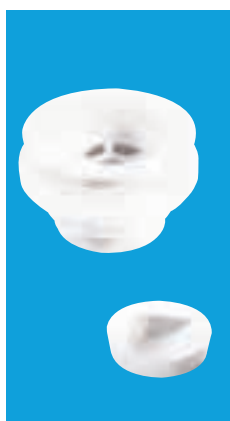
Code **BSW10**



**Backnut Model** - chrome plated plastic

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

Code **BW5**



**Backnut Model** - white plastic

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

Code **W4**

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

Code **W5**

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

# 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 **FBW1P\***

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

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

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

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



**Combined Wastes and Overflows with removable Grid for cleaning**

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

1½" x 70mm white plastic flange and 34mm diameter overflow tube, plug and CP chain

**FBW2R-W**

**Centre Pin Model**

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

**FBW2PW**

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

# Sink Waste Outlets

## Centre Pin Sink Wastes - Stainless Steel Flange



### Centre Pin Model

	Code
1 1/4" x 85mm flange with plug	<b>BSW3P</b>
1 1/4" x 85mm flange, plug with CP chain and stay	<b>BSW3PC</b>
1 1/2" x 85mm flange with plug	<b>BSW6P</b>
1 1/2" x 85mm flange, plug with CP chain and stay	<b>BSW6PC</b>



### Centre Pin Model

1 1/2" x 85mm flange with black PVC handle plug	<b>BSW6PR</b>
---	---------------



### Centre Pin Model

1 1/2" x 70mm flange with black PVC handle plug	<b>BSW10PR</b>
---	----------------



### Centre Pin Model

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



### Centre Pin Model Waste for Belfast Sink

1 1/2" x 85mm flange with CP handle plug	<b>BSW6CP2H</b>
--	-----------------



### Centre Pin Model Reducer Waste

1 1/2" x 113mm flange with black ABS handle plug	<b>SW45P</b>
1 1/2" x 113mm flange, plug with CP chain and stay	<b>BSW45P</b>

## Backnut Sink Waste



### Backnut Model - white plastic

1 1/2" x 85mm flange x 3 1/2" unslotted tail with 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**

1½" x 113mm flange

Code

**BWSTSS**

1½" x 113mm flange, PVD finish (gold)

**BSWPVD**



**Centre Pin Model** - stainless steel flange  
**Spring-Loaded plug**

1½" x 113mm flange

**BSWCLS**



**Backnut Model** - chrome plated brass  
**Spring-Loaded plug**

1½" x 113mm flange

**BSW-BR-CP**



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

1½" x 113mm flange, rectangular overflow,  
(no overflow grid)

**BWSTOFRS**

1½" x 113mm flange with CP overflow grid

**BWSTOFSS**

1½" x 113mm flange, overflow grid, PVD finish (gold)

**FBSWPVD**

**Centre Pin Model** - stainless steel flange  
**Spring-Loaded plug**

1½" x 113mm flange with CP overflow grid

**BSWCLS-OFSS**



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

1½" x 85mm flange

**MBSWSS85**

1½" x 85mm flange, PVD finish (gold)

**MBS85PVD**



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

1½" x 85mm flange with CP overflow grid

**FMBSWSS85**

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



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

Code **BWSTSS-TOP**



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

Code **BSKTOP**

## Pop-Up Sink Wastes



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

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



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

1½" x 113mm flange basket strainer waste with CP plastic command knob	<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

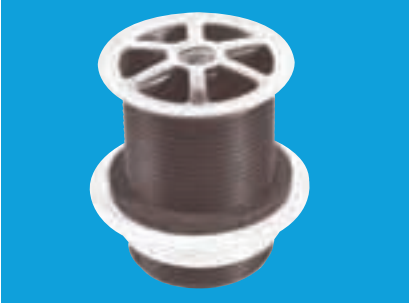
1¼" x 70mm flange

**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**





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

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



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

1½" x 113mm flange x 2¾" white plastic flange	<b>SWHF5-WH</b>
1½" x 113mm flange x 2¾" CP plastic flange	<b>SWHF5-CP</b>
2" x 113mm flange x 2¾" white plastic flange	<b>SWHF6-WH</b>
2" x 113mm flange x 2¾" CP plastic flange	<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
1¼" x 60mm flange x 3½" white plastic tail	<b>WU10</b>
1½" x 60mm flange x 2" white plastic tail	<b>WU11</b>



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

2" x 85mm flange x 1⅝" grey plastic tail	<b>GWU20</b>
2" x 85mm flange x 1⅝" white plastic tail	<b>WU20</b>



**Backnut Model** - flush flange

1¼" x 60mm flange x 3½" CP plastic tail	<b>CWU1A</b>
1¼" x 60mm flange x 3½" white plastic tail	<b>WU1A</b>



**Backnut Model** - flush flange

1¼" x 60mm flange x 2⅛" CP plastic tail	<b>CWU1S</b>
1¼" x 60mm flange x 2⅛" white plastic tail	<b>WU1S</b>

### Waste with plug for Caravans and Boats






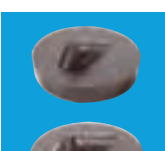




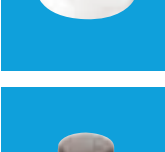




This waste has a plain tail and can be fitted into any 1¼" x 75mm water seal adjustable inlet trap - e.g. AA10 see page 6. Remove standard adjustable inlet supplied and substitute fitting

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

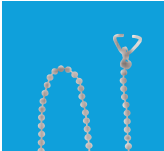



# Waste Accessories and Soap Dispenser

## 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>
		Code
	1 3/4"	<b>BP4</b>
	1 3/4" with triangle	<b>BP4T</b>
		Code
	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>
		Code
	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>
		Code
	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>

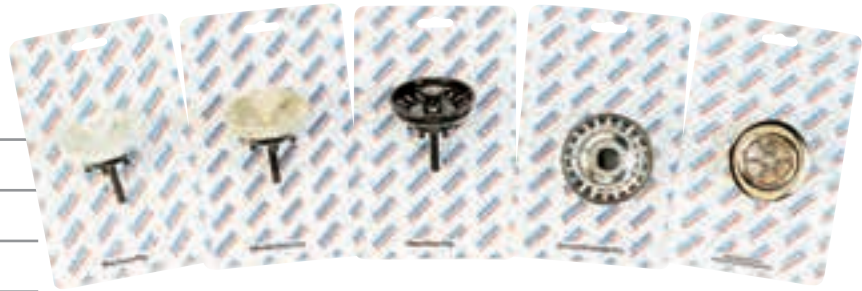
## Overflow Stopper

	<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 Access Shower Trap
- 55 Tundish with 19/23mm Universal Outlet
- 56 Side Inlet Tundish with 19/23mm Universal Outlet
- 57 Top Inlet Tundish 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.

## 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 59

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 67

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****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 20**

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 16-17**

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 59**

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

**MACFIT WC Connectors see Pages 74-75**

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

**Flexible WC Connectors see Pages 76-78**

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

**Rigid WC Connectors see Pages 79-81**

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

**Air Admittance Valves (Ventapipe) see Section 6**

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

Code WC-CON8F18



Code VP50P

# Index (Code Number in Alphabetical and Numerical Order)

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
<b>Numerical</b>		ASE10	10	BOSSCONN82-GR		BSW3P	96	CD1000-O-B	46
228532	13/15	ASE10V	10		63	BSW3PC	96	CD1000-O-P	46
32A-CB	60			BOSSCONN82T-BL		BSW45P	96	CD1000-P	45
32G-CB	60	<b>B</b>			63	BSW6CP2H	96	CD1000-SQ	45
35A-CB	60	BATHTRAP25-CPB		BOSSCONN82T-GR		BSW6P	96	CD1200-B	45
35B-CB	60		22		63	BSW6PC	96	CD1200-O-B	46
35G-CB	60	BATHTRAP50-CPB		BOSSCONN82Z-BL		BSW6PR	96	CD1200-O-P	46
40K-CB	60		22		63	BSW9P	93	CD1200-P	45
42A-CB	60	BL30-3/4	69	BOSSCONN82Z-GR		BSW9P-F	100	CD1200-SQ	45
42B-CB	60	BN1	104		63	BSW9PC	93	CD600-B	45
42E-CB	60	BN2	104	BP1-CAP	104	BSWCLS	98	CD600-O-B	46
42G-CB	60	BN3	104	BP2-CAP	104	BSWCLS-OFSS	98	CD600-O-P	46
		BN5	104	BP2H	104	BSWPVD	98	CD600-P	45
<b>A</b>		BOSS110CAST-BL		BP3	104	BT1	11	CD600-SQ	45
A10	6		17/63	BP3H	104	BT2	11	CD700-B	45
A10A	6	BOSS110TCAST-BL		BP3T	104	BT3	10	CD700-O-B	46
A10AR	5/6		17/63	BP4	104	BT4	10	CD700-O-P	46
A10AR-CP	5/7	BOSS82CAST-BL		BP4H	104	BW1	91	CD700-P	45
A10AV	6		17/63	BP4T	104	BW1A	91	CD700-SQ	45
A10AV-SV	7	BOSS82TCAST-BL		BP5	104	BW5	93	CD800-B	45
A10R	5/6		17/63	BRASSTRAP-25-CP		BW60SPH-CB	90	CD800-O-B	46
A10V	6	BOSS90CAST-BL			22	BWSTOFRS	98	CD800-O-P	46
A32UK-CB	8		17/63	BRASSTRAP-50-CP		BWSTOFSS	98	CD800-P	45
A32UK-CP	8	BOSS90TCAST-BL			22	BWSTSS	98	CD800-SQ	45
AA10	6		17/63	BSKTOP	99	BWSTSS-TOP	99	CD900-B	45
AA10W	6	BOSSCONN-22MM		BSW-BR-CP	98	BWU60SPH-CB90		CD900-O-B	46
ABS32/35A-CB	61		17/63	BSW1	92			CD900-O-P	46
ABS32/35A-CB-L	61	BOSSCONN1.25BL		BSW10	93	<b>C</b>		CD900-P	45
	61		17/63	BSW10P	93	C10	6	CD900-SQ	45
ABS32/35G-CB	61	BOSSCONN1.25GR		BSW10P-F	100	C10A	6	CE31A	7
ABSCON-32X1.25	60		17/63	BSW10PC	93	C10AR	5/6	CH10	104
	60	BOSSCONN110-BL		BSW10PR	96	C10AR-CP	5/7	CH4	104
ABSCON-35X1.25	60		17/63	BSW11P	91	C10AV	6	CH4-18	104
	60	BOSSCONN110-GR		BSW11PC	91	C10AV-SV	7	CH5	104
ABSCON-42X1.5	60		17/63	BSW12	92	C10R	5/6	CLAMP1GR	17
	60	BOSSCONN110T-BL		BSW12C	92	C10V	6	CLAMP1WH	17
ARB-1	82		17/63	BSW12T	92	CA32MINI-CB	8	CONFLEX-200	16
ARW10	30	BOSSCONN110T-GR		BSW15P	93	CA32SQUK-CB	8	CONFLEX-300	16
ASA10	10		17/63	BSW15PC	93	CA32UK-CB	8	CONFLEX-KIT1	16
ASA10-SP	10/16	BOSSCONN110Z-BL		BSW1P	91	CAA10	7	CONTRAP1	23
ASA10V	10		63	BSW1PC	91	CAP100	62	CONTRAP2	23
ASA10W	10	BOSSCONN110Z-GR		BSW2	92	CBW70-CB	93	CONVALVE	17
ASC10	10		63	BSW21P	96	CBW70-CLK	93	CONVALVE-125	70
ASC10-CO	12/16	BOSSCONN82-BL		BSW21PC	96	CBW70-SW	93	CONVALVE-125P	
ASC10-SP	10/16		63	BSW2P	91	CBWF70CB	93		70
ASC10V	10			BSW2PC	91	CD1000-B	45	CP1	104

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
CP1H	104	FBW1PC	95	FSW2PC-70	97	<b>M</b>		MZ18E	54
CP2	104	FBW2P	95	FSW2PP	97	MA15	13	MZ20	54
CP2H	104	FBW2PC	95	FSW2PP-70	97	MAC-1	75	MZ20L	54
CPTSG	50	FBW2PW	95	FSW2PR	97	MAC-1-BTW	75	MZ4	54/69
CRW10	30	FBW2R-C	95	FSW2PR-70	97	MAC-3	75	MZ4-ISO	54
CSWU3P	100	FBW2R-W	95	FSW45P	97	MAC-3C	75	MZ4-TANK	55
CTW1	103	FD90-T6SS	43	FTC1AWH	66	MAC-4	75	MZ4L	54/69
CW1	91	FD90-T6WH	43	FVW1P	92	MAC-4A	75	<b>N</b>	
CW5	93	FGT150-SV-110		FVW1PC	92	MAC-7A	75	NUT-BLANK-WH	
CW60-CB	90		42	FVW1PW	92	MAC-8	75		58
CW60SP-CB	90	FGT150-SV-110S				MAC-8L	75	NUT-WMVALVE	
CW60SQ-CB	90		42	<b>G</b>		MAC-EXTA	75		58
CWP60-SS	91	FGT150TOP	42	G10	6	MAC-EXTB	75		
CWP60-SSP	91	FGTOP6SS	42/50	GWAL-CB	90	MAC-EXTC	75	<b>O</b>	
CWS5	100	FGTR118TOP	50	GWU20	103	MACLINK	75	O/FSTOP-BL	104
CWS70-CB	93	FGTR118TOP-50				MACVALVE-1	9	OBT1	11
CWU1A	103		50	<b>H</b>		MACVALVE-2	9	OBT1-CO	16
CWU1S	103	FGTR125TOP	42	H11M	68	MACVALVE-3	9	OBT1V	11
CWU60-CB	90	FJ10	19	H28	68	MBS85PVD	98	OBT2-CO	16
CWU60SP-CB	90	FJ10V	19	HANDIPAK CARDS		MBSWSS85	98		
CWU60SQ-CB	90	FJ10WC	19		105	MD100	43	<b>P</b>	
		FJWF1	21	HANDITRAP-B	6	MD100-3	43	P-OR-SHOWERTRP	
<b>D</b>		FLEX-JKS	57	HANDITRAP-T	11	MD200	43		30
DC1-BL	62	FLEXCON1	56	HC2650-EXT-KIT		MD400	43	P-RW-STW90	30
DC1-BL-BO	62	FLEXCON2	56		30	MDTOP-WH	42	P10	18
DC1-GR	62	FLEXCON2-LN	56	HC2650UK	18	MDTOP20-WH	42	PIPE32-1000-CB	
DC1-GR-BO	62	FLEXCON3	56	HC2650UK-FIL	20	MESH-1	51		60
DC1BL-OS	62	FLEXCON4	56	HC2650UK-FIL-1M		MS18E	54	PIPE35-1000-CB	
DC1GR-OS	62	FLEXCON5	56		20	MS18L	54		60
DC2-BL	62	FLEXCON6	56	HCN3165UK	20	MS20	54	PIPE42-1000-CB	
DC2BL-OS	62	FLEXCON7	56	HCN3165UK-1M		MS20L	54		60
DC3-BL	62	FLEXCON8	56		20	MS4	54/69	PUB-CP	94
DC3BL-OS	62	FLEXCON9	57	HCN3365UK	20	MS4-32MM	54/61	PUB-CPB	94
DC4-BL	62	FLEXKIT1	14	HCN3365UK-1M		MS4-32SOLVENT		PUB-CPX	94
DC90-BL	62	FMBSWSS85	98		20		54/61	PUB-PB-1M	94
DC90-GR	62	FPKIT-3	82	HCUP50UK	23	MS4-ISO	54	PUB-PB-575	94
DWU60-CB	90	FSK10	19	HCUS50UK	23	MS4-TANK	55	PUB-PB-700	94
		FSK10E	19	HD1-3M	59/67	MS4L	54/69	PUB-WH	94
<b>E</b>		FSK10V	19	HD2-3M	59/67	MT18E	54	PUBX-SP	94
E10	6	FSKWf1	21	HD3-3M	59	MT18L	54	PUFS113-CP	99
EXTA-F	77	FST1WP	10	HWILF	69	MT20	54	PUFS70-CP	99
EXTB-F	77	FSW1P	97			MT20L	54	PUS113-CP	99
		FSW1PC	97	<b>L</b>		MT4	54/69	PUS70-CP	99
<b>F</b>		FSW1PP	97	L10	18	MT4-ISO	54	PUWF2-CP	21
FBSWPVD	98	FSW2P	97	L10PLUG	30	MT4-TANK	55	PUWF3-CP	21
FBW1P	95	FSW2PC	97	L10V	18	MT4L	54/69		

# Index (Code Number in Alphabetical and Numerical Order)

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
PWM1	30	R5M	66	S28M	54	SP10V	10	STW10-R	27
PWM2	30	R6	66	S29	55	SP10W	10	STW10-RB	27
PWM3	30	R6A	66	S29-LN	55	SR10	11	STW11-M	28
		R7	66	S30	59/67	SS10	11	STW11-R	26
<b>Q</b>		R8A	66	S31M	55	SSINLET1	9/14	STW12-M	28
Q10	18	RS1	64	S31U	9	SSINLET2	9/14	STW12-R	27
		RS2	64	S32-CP	60	SSK1	14	STW12-RB	27
<b>R</b>		RS3	64	S35-CP	60	SSK2	14	STW19-TUBE	30
R-3M	66	RS4	64	S4A	67	SSK3	14	STW2-95	26
R/SEAL-35X32	60	RS7	64	S4E	67	ST28L-ISO	54	STW2-M	28
R/SEAL-42X32	60	RW1	30	S4L	59	ST28M	54	STW2-R	26
R/SEAL-42X35	60	RW2	30	S4U	9	ST70SS85	29	STW2M-95	28
R1	66	RW3	30	S5	67/69	ST90-70B	47	STW3-M	28
R11	22	RWILF	69	S5M	55	ST90-HP2B	47	STW3-R	27
R12	22	RWM1	30	S5M-A	55	ST90-HPB	47	STW3-RB	27
R13	22/66	RWM2	30	S7	67	ST90-OUT	55	STW4-95	27
R14	22	RWM3	30	S8A	58/67	ST90CB10-70	24	STW4-M	28
R15	22			S8B	58	ST90CB10-HP	24	STW4-R	27
R16	55/66	<b>S</b>		S8M	55	ST90CB10-HP2	24	STW4-RB	5/27
R16-BL	17/63	S1	58	S9	67	ST90CB10-V	24	STW4B-95	27
R16-GR	17/63	S11M	55/68	SA10	10	ST90CP10-70	24	STW4M-95	28
R17	55/66	S12A-1	58	SA10V	10	ST90CP10-HP	24	STW5-M	28
R1M	66	S12A-2	58	SB10	10	ST90CP10-HP2	24	STW5-R	26
R1M-CO	17/66	S12A-3	58	SC10	10	ST90CP10-V	24	STW50-TUBE	30
R2	66	S12A-F	58	SC10V	10	ST90CPB-P-70	24	STW6-95	26
R23U	66	S12C	58	SD10	10	ST90CPB-P-HP	24	STW6-M	28
R28-NRV	70	S12D	58	SE10	10	ST90CPB-P-HP2		STW6-R	26
R29-NRV	70	S13-ISON	58	SE10V	10		24	STW6M-95	28
R2A	66	S16	58	SF10	10	ST90CPB-P-V	24	STW7-M	28
R2AM	66	S17	59	SG10	11	ST90CPB-S-70	25	STW7-R	27
R2M	66	S18	67	SH10	11	ST90CPB-S-HP	25	STW7-RB	27
R3	66	S18-ABS	55	SK1	15	ST90CPB-S-HP2		STW70CP	29
R30	68	S18L	59	SK1A	15		25	STW70CPB	29
R30E	68	S18M	59	SK2	15	ST90CPB-S-V	25	STW70CPL	29
R31	68	S1M	6	SK3	15	ST90CPTOP+TUBE		STW70GP	29
R32	68	S21A	55	SM10	18		30	STW70LN	29
R33	68	S22L	58	SM10E	18	ST90W/BODY-L		STW70LNL	29
R34	68	S23	58	SM10EPLUG	30		30	STW70SSM	29
R3M	66	S23L	59	SM10EV	18	ST90WH10-70	25	STW70WH	29
R4	66	S23M	55	SM10PLUG	30	ST90WH10-HP	25	STW70WHL	29
R40	68	S23MR	62	SM10V	18	ST90WH10-HP2		STW70WHM	29
R40E	68	S23U	55	SMP10	18		25	STW8-95	27
R45	68	S25	58	SMP10V	18	ST90WH10-V	25	STW8-M	28
R45E	68	S26L	59	SOAK1GR	17	STW1-M	28	STW8-R	27
R4M	66/68	S28L	59	SOAP-CP	104	STW1-R	26	STW8-RB	27
R5	66	S28L-ISO	54	SP10	10	STW10-M	28	STW80-TUBE	30

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
STW85CP	29	T12H	58	T9	67	TSG3-R125SS	37	TUN5-CL	70
STW85CPB	29	T12L	59	TA32UK-CB	8	TSG3-T150SS	37	TUNKIT-1	71
STW85CPL	29	T12M	54	TA32VUK-CB	8	TSG3-WH	35	TUNKIT-3	71
STW85GP	29	T12R	55	TAPSTOP-SS	104	TSG3SS	35	TUNVALVE	70
STW85LN	29	T12S	59	TAPSTOP-SS40	104	TSG3SS-SL-NSC35	35	TV1	13
STW85LNL	29	T13-ISON	58		104	TSG3SS-SL-SC	35	TV2	13
STW85SSM	29	T16	58	TAPSTOP-WH	104	TSG3T6SS	37	TWILF	69
STW85WH	29	T17	59	TILE-PLAIN-B	47	TSG3T6WH	37	TWL-18	67
STW85WHL	29	T18	67	TILE-PLAIN-P	47	TSG50-ANTI/LIG	40	TWLFBR	68
STW85WHM	29	T18-ABS	55	TP10	10		40	TWLFCV	69
STW8B-95	27	T18L	59	TP10V	10	TSG50-R125SS	36	TWS-18	67
STW8M-95	28	T18M	59	TR10	11	TSG50-T150SS	36		
STW9-M	28	T1M	6	TRSH10	11	TSG50SS	34	<b>U</b>	
STW9-R	26	T21A	55	TS10	11	TSG50SS-SL-NSC	34	UPSW-1	102
STWGR-CP	29	T22L	58	TSG1-ANTI/LIG	40		34	UPSW-2	102
STWGR-WH	29	T23	58	TSG1-R125SS	36	TSG50SS-SL-SC	34	UPSW-2-22MM	
SW45P	96	T23L	59	TSG1-T150SS	36	TSG50T6SS	36		102
SWHF1-WH	100	T23M	55	TSG1-WH	34	TSG50T6WH	36	UPSW-3	102
SWHF2-WH	100	T23MR	62	TSG1SS	34	TSG50WH	34	UPSW-3-22MM	
SWHF3-CP	101	T23U	55	TSG1SS-SL-NSC	34	TSG50WH-NSC	34		102
SWHF3-WH	101	T25	58	TSG1SS-SL-SC	34		34	UPSW-4-22MM	
SWHF4-CP	101	T26L	59	TSG1T6SS	36	TSG52-ANTI/LIG	40		102
SWHF4-WH	101	T28L	59	TSG1T6SS+STW1-	41		40	USG1-T150SS	37
SWHF5-CP	101	T28L-ISO	54	R	41	TSG52-R125SS	36	USG1SS	35
SWHF5-WH	101	T28M	54	TSG1T6SS-STW2R	41	TSG52-T150SS	36	USG1SS-SL-NSC35	
SWHF6-CP	101	T28M-FIL	55		41	TSG52SS	34	USG1SS-SL-SC	35
SWHF6-WH	101	T28M-NRV	57	TSG1T6SSSTW295	41	TSG52SS-SL-NSC	34	USG1T6SS	37
SWILF	69	T29	55		41		34	USG1WH	35
SWL-18	67	T29-LN	55	TSG1T6WH	36	TSG52SS-SL-SC	34	USG1WH-NSC	35
SWLFBR	68	T30	59/67	TSG1WH-NSC	34	TSG52T6SS	36	USG2-T150SS	37
SWLFCV	69	T30-CLAMP	58	TSG1WH-STW1R	41	TSG52T6WH	36	USG2SS	35
SWS-18	67	T30-SPACER	58		41	TSG52WH	34	USG2SS-SL-NSC	
		T31M	55	TSG1WH-STW2R	41	TSG52WH-NSC	34		35
<b>T</b>		T31U	9		41	TSGCONTV	50	USG2SS-SL-SC	35
T1	58	T42-CP	60	TSG1WHSTW295	41	TSGCONTVSS	50	USG2T6SS	37
T11M	55/68	T4A	67		41	TSGCONV	50	USG2WH	35
T12	58	T4E	67	TSG2-ANTI/LIG	40	TSGCONVSS	50	USG3-T150SS	37
T12A-1	58	T4L	59	TSG2-R125SS	36	TSGSTOP	51	USG3SS	35
T12A-2	58	T4U	9	TSG2-T150SS	36	TT10	11	USG3SS-SL-NSC	
T12A-3	58	T5	67/69	TSG2SS	34	TUN-1	70		35
T12A-F	58	T5M	55	TSG2SS-SL-NSC	34	TUN-2	17/54/70	USG3SS-SL-SC	35
T12B	58	T5M-A	55	TSG2SS-SL-SC	34	TUN-3	70	USG3T6SS	37
T12C	58	T7	67	TSG2T6SS	36	TUN-3CP	70	USG3WH	35
T12D	58	T8A	58/67	TSG2T6WH	36	TUN-4	70	USGLEG1	51
T12E	58	T8B	58	TSG2WH	34	TUN-4CP	70		
T12F	58	T8M	55	TSG2WH-NSC	34	TUN-6	70		

# Index (Code Number in Alphabetical and Numerical Order)

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page
<b>V</b>		W11	67	WC-CONQ	80	WP2T	104	ZS26L	54
V1	67	W1A	92	WC-CONQP	80	WP3	104	ZS31M	63
V15M	54	W20	67	WC-EXTA	80	WP3T	104	ZT26L	54
V1L	59	W21	67	WC-EXTB	80	WP4	104	ZT31M	63
V1M	54	W3	96	WC-EXTC	80	WP4T	104	ZWILF	69
V1MX	54	W4	93	WC-EXTD	80	WS3	100	ZWLFBR	68
V1MX-CO	17	W5	93	WC-F18R	76	WS5	100		
V21L	59	WALLFLANGE-CP32		WC-F18S	76	WU10	103		
V23L	59		60	WC-F21R	78	WU11	103		
V24L	59	WALLFLANGE-CP35		WC-F21S	78	WU1A	103		
V33L	13/59		60	WC-F23P	77	WU1S	103		
V33S	13/59	WALLFLANGE-CP42		WC-F23PV	77	WU20	103		
V33S-22	71		60	WC-F23R	76				
V33T	71	WC-BP1	81	WC-F23RV	76	<b>X</b>			
V33T-FP	71	WC-CON-EXT	81	WC-F23S	76	X10	11		
V33WM	12	WC-CON1	79	WC-F23SV	76	X10A	11		
V34L	13/59	WC-CON16	79	WC-F26P	77	X10V	11		
V8	67	WC-CON1V	79	WC-F26PV	77				
V8L	59	WC-CON2	79	WC-F26R	76	<b>Y</b>			
V8M	54	WC-CON2B	79	WC-F26RV	76	Y10	11		
VP1	87	WC-CON3	79	WC-F26S	76				
VP100	86	WC-CON4	79	WC-F26SV	76	<b>Z</b>			
VP100N	86	WC-CON4A	79	WC17-90	82	Z1	58		
VP15M	87	WC-CON4B	79	WC17-110	82	Z11M	55/68		
VP1W	87	WC-CON5	79	WC17-114	82	Z18L	59		
VP2	87	WC-CON5B	79	WCTRAP4P	23	Z18M	59		
VP2W	87	WC-CON6	79	WCTRAP4S	23	Z21A	55		
VP3	87	WC-CON7	79	WF1	21	Z23	58		
VP4	87	WC-CON7A	79	WF21	21	Z23L	59		
VP50	86	WC-CON7B	79	WF21-SP	22	Z23M	55		
VP50-100	86	WC-CON8	80	WM1	12	Z23MR	62		
VP50P	86	WC-CON8E	80	WM11	12	Z23U	55		
VPSF-40/50	86	WC-CON8F	77	WM12	12	Z28L	59		
VSG1T6SS	39	WC-CON8F-BTW		WM14	12	Z28L-ISO	54		
VSG1T6WH	39		78	WM15	12	Z28M	54		
VSG1WH	39	WC-CON8F-S-BTW		WM2	12	Z28M-NRV	57		
VSG1WH-NSC	39		78	WM2V	12	Z28M-NRVS	57		
VSG52T6SS	40	WC-CON8F18	77	WM3	12	Z29	55		
VSG52T6WH	40	WC-CON8F18-BTW		WM3-CAP	12	Z30	59		
VSG52WH	39		78	WM4	13	Z31M	63		
VSG52WH-NSC		WC-CON8F18-S-		WMF3	13	Z4L	59		
	39	BTW	78	WMF4	13	Z5M	55		
		WC-CON8FV	77	WP1	104	Z8A	58		
<b>W</b>		WC-CON8V	80	WP1T	104	Z8B	58		
W1	92	WC-CON9	80	WP2	104	Z8M	55		
W10	67	WC-CON9V	80	WP2H	104	ZP10	10		



