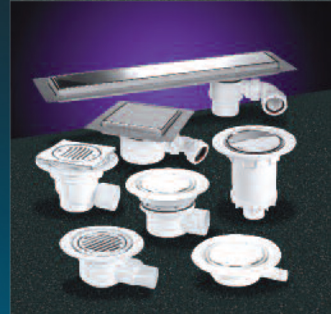


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June 2014



Product Catalogue



Complete Range of Plumbing Products

NEW

LATEST Innovative Products

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Introduction

McAlpine commenced manufacturing plumbing products in 1902 and in 1957 was the first United Kingdom Company to manufacture plastic traps and are 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 in 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

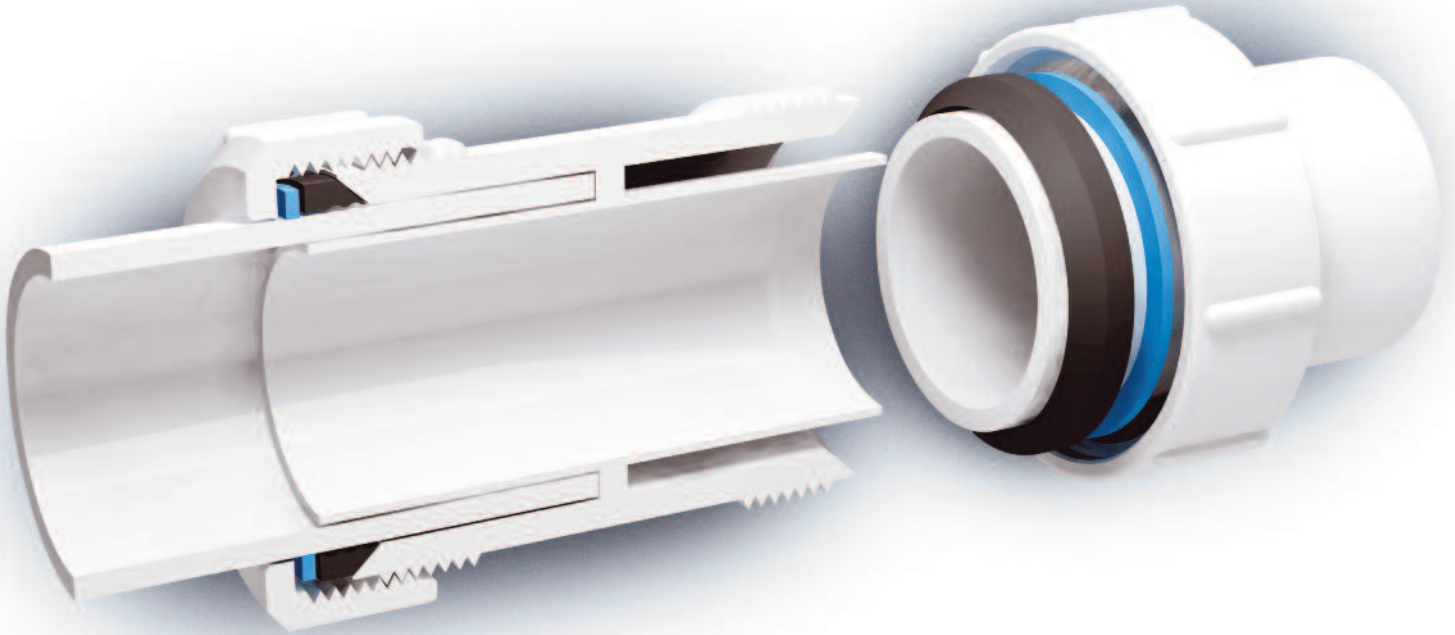
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The company operate a policy of progressive improvements and reserve the right to alter the specification of any product without notice



McAlpine Multifit

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



Multifit Connections

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

Plastic Traps Condensate Products

M'ALPINE
Plumbing Products

SECTION

1

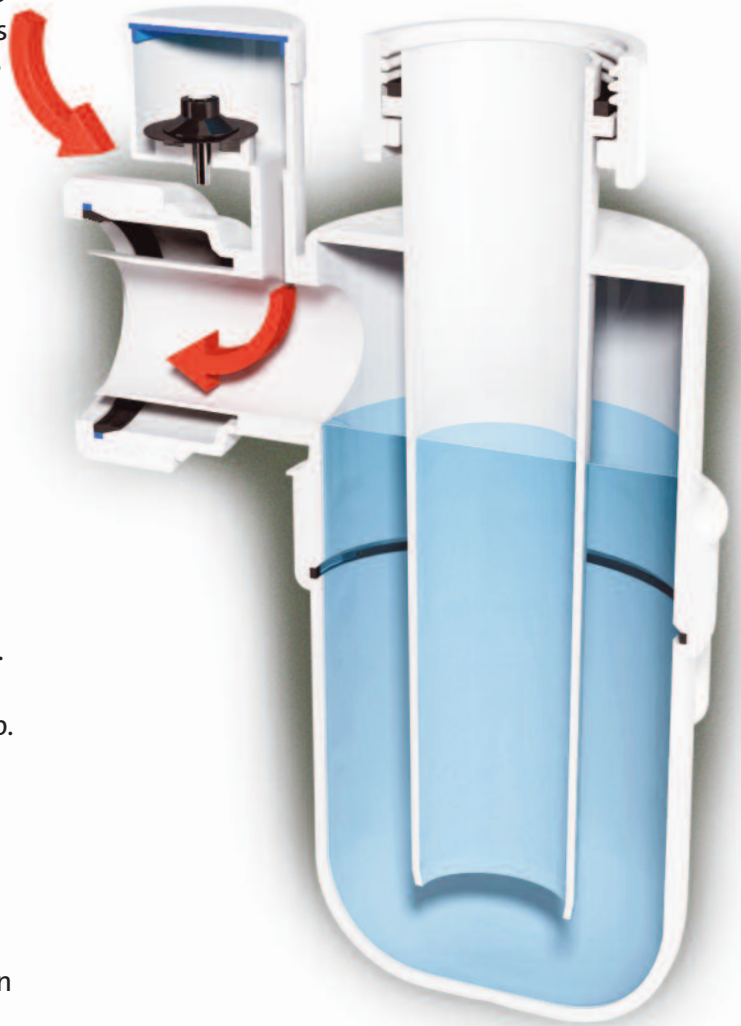


Plastic Traps and Condensate Products

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

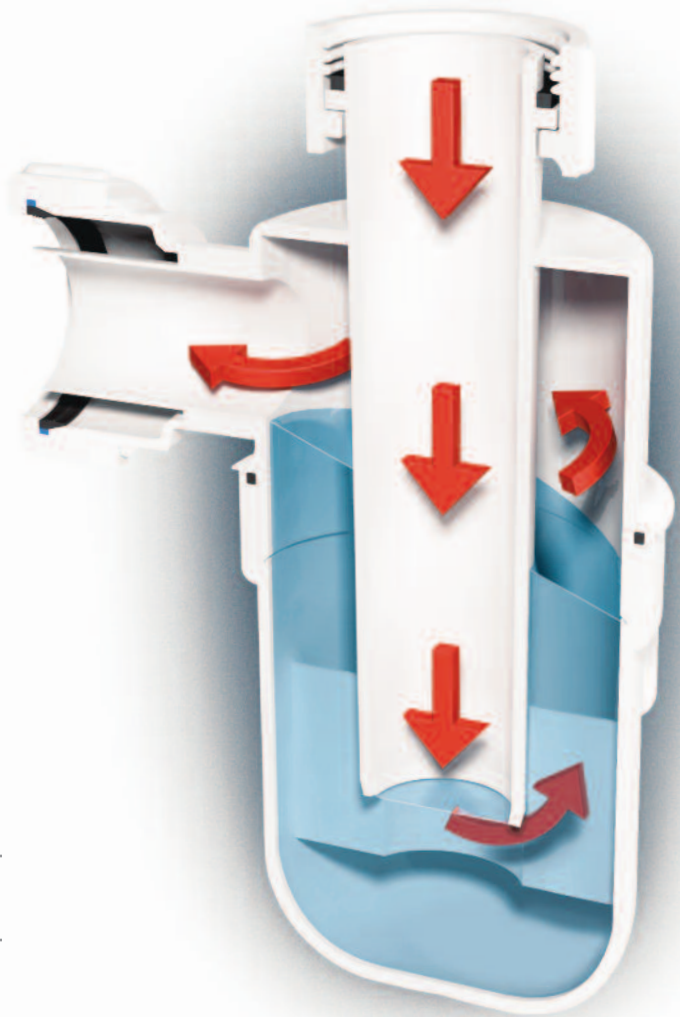
Resealing Bottle Traps are an alternative to Anti-Syphon Traps (Silenttraps) and may be used in similar circumstances

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

Advantages

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



1 1/4" Code	1 1/2" Code
A10R	C10R

Standard



Adjustable Inlet	
A10AR	C10AR



Adjustable Inlet Chrome Plated	
A10AR-CP	C10AR-CP



Resealing Shower Trap

Code	STW4-RB
------	----------------

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

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

Bottle Traps with 75mm Water Seal

Bottle Traps with 75mm Water Seal



1¼"	1½"
Code	Code

Standard

A10	C10
------------	------------



Anti-Syphon (Silentrap)

A10V	C10V
-------------	-------------



Resealing

A10R	C10R
-------------	-------------



Adjustable Inlet

A10A	C10A
-------------	-------------



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

A10AV	C10AV
--------------	--------------



**Resealing
Adjustable Inlet**

A10AR	C10AR
--------------	--------------



1¼"	1½"
Code	Code

Adjustable Inlet

AA10	-
-------------	---



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

AA10W	-
--------------	---



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

Code	HANDITRAP-B
------	--------------------



38mm Water Seal

E10	G10
------------	------------



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

S1M	T1M
------------	------------

Chrome Plated Bottle Trap



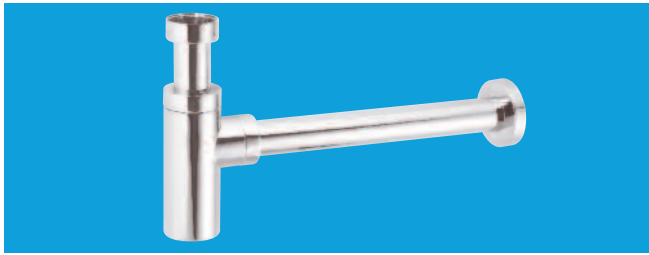
1¼"	1½"
Code	Code

**Resealing Trap
Adjustable Inlet**

A10AR-CP	C10AR-CP
-----------------	-----------------

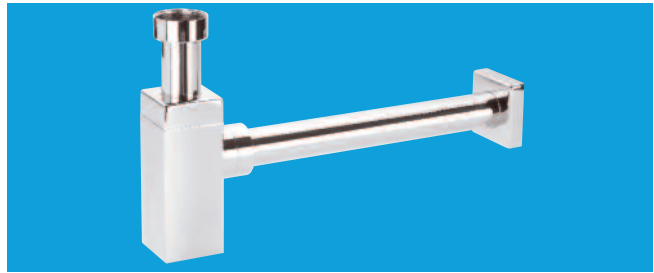
Chrome Plated Basin Traps, Pipe and Wall Flange SECTION 1

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



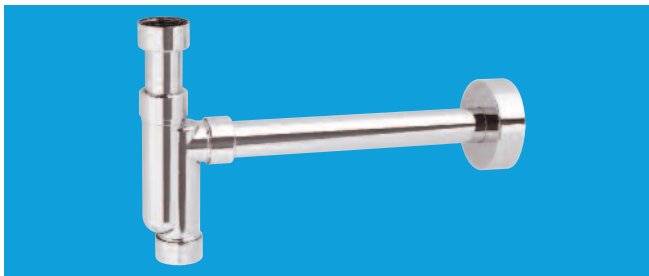
1 1/4" x 50mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap with 12" length of 32mm OD CP brass waste pipe and wall flange

Code **CA32MINI-CB**



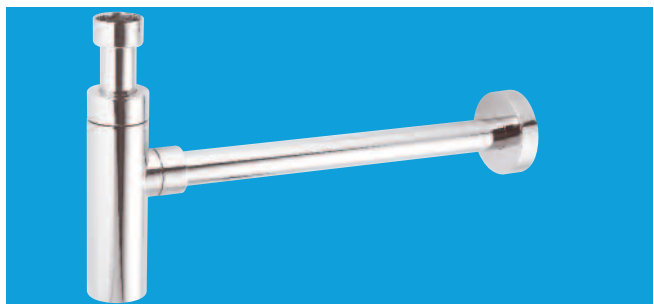
1 1/4" x 50mm Water Seal Brass Adjustable Inlet Square Bottle Trap with 12" length of 32mm OD CP brass waste pipe and wall flange

Code **CA32SQUK-CB**



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**



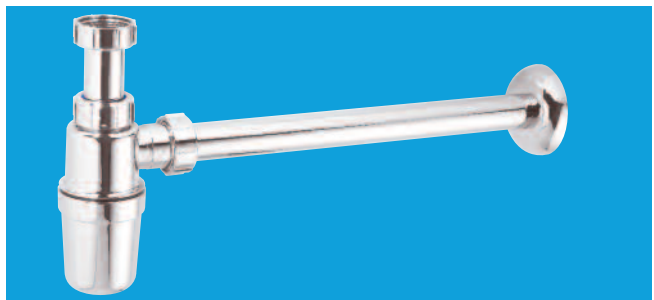
1 1/4" x 75mm Water Seal Brass Adjustable Inlet Cylindrical Bottle Trap with 16" length of 32mm OD CP brass waste pipe and wall flange

Code **CA32UK-CB**



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

Code **TA32VUK-CB**



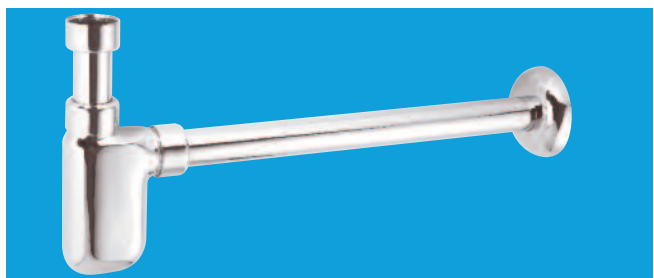
1 1/4" x 75mm Water Seal Plastic Adjustable Inlet Bottle Trap with 16" length of 32mm OD CP brass waste pipe and wall flange

Code **A32UK-CP**

Chrome Plated Bottle Trap



1 1/4" Code	1 1/2" Code
Adjustable Inlet	
CAA10	
Adjustable Inlet to suit 32mm OD European size CP brass waste pipe	
CE31A	



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**

Tubular Traps with 75mm Water Seal

Tubular Traps with 75mm Water Seal



1¼" Code	1½" Code	2" Code
Swivel 'P'		
SA10	SC10	SE10



1¼" Code	1½" Code	2" Code
Low Inlet		
BT3*	-	-



1¼" Code	1½" Code	2" Code
Anti-Syphon (Silentrap)		
SA10V	SC10V	SE10V



1¼" Code	1½" Code	2" Code
50mm Water Seal		
BT4	-	-



1¼" Code	1½" Code	2" Code
Adjustable Inlet		
ASA10	ASC10	ASE10



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



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



1¼" Code	1½" Code	2" Code
Swivel 'S'		
SB10	SD10	SF10



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



1¼" Code	1½" Code	2" Code
All One		
SP10	TP10	ZP10



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



1¼" Code	1½" Code	2" Code
All One Anti-Syphon (Silentrap)		
SP10V	TP10V	-



1¼" Code	1½" Code	2" Code
All One Basin Trap with centre pin waste		
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	HANDITRAP-T
------	--------------------



Running 'P'

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

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



Running 'S'

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



1 1/4" Code

Offset Basin Trap with adjustable inlet and cleaning eye

OBT1

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

OBT1V



Running suitable for most waste disposal units

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



Running with 20mm water seal

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



Adjustable Inlet with 19mm water seal

BT1	BT2	-
------------	------------	---



Straight Through with one cleaning eye

1 1/4" Inlet x 1 1/4" outlet	X10	-	-
------------------------------	------------	---	---

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

1 1/4" Inlet x 1 1/4" outlet	X10V	-	-
------------------------------	-------------	---	---

Straight Through with two cleaning eyes

1 1/4" Inlet x 1 1/4" outlet	X10A	-	-
------------------------------	-------------	---	---

1 1/4" Inlet x 1 1/2" outlet	Y10	-	-
------------------------------	------------	---	---

Domestic Appliance Traps 1½" x 75mm Water Seal

General

- Domestic Appliance Traps provide the facility to accept the discharge from a washing and/or dishwashing machine(s) and are suitable for new and existing installations
- In all cases a blank cap, plug or blank nozzle is provided with the trap. Should the domestic appliance not be connected at the time of installation, the trap will function as a normal sink trap whilst providing an easily accessible point for the future installation of any appliance(s)

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



Code **WM1***



Code **WM2**



Code **WM2V**



Code **WM11***



Code **WM12***



Code **WM14***

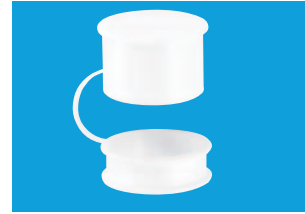


Code **WM15***



Code **ASC10-CO***

Standpipe Trap and Fittings



Standpipe Cap with retaining clip

Code **WM3-CAP**



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

- Multifit outlet to suit either 1½" or 40mm diameter standpipe
- 135° swivel nozzles for washing and/or dishwashing machine discharge hoses - supplied with blanking plugs
- Discharge hose(s) to be taken to the height stated by the appliance manufacturer(s)
- An air break, as specified by appliance manufacturers is incorporated within the connector

Code **V33WM**



Standpipe Trap

Code **WM3***

Sink Trap with TeeVent

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



Code **TV1**



Code **TV2**



Code **WM4***

- **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**



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

1½" x 1½" x ¾" Code **V33L**

1¼" x 1¼" x ¾" Code **V34L**



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

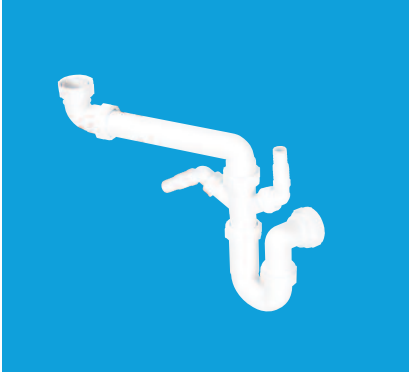
1½" x 1½" x ¾" Code **V33S**

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

Space Saver and Standard Plumbing Kits for Sinks. Plumbing

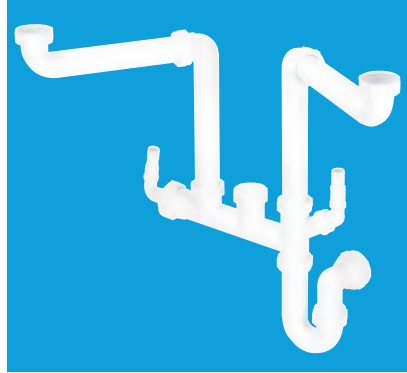
General

- Space Saver Kits are designed to allow full use of storage space below the sink bowl(s) and are suitable for use with almost all British and European sinks
- All kits have 1½" inlet connections and the provision for the discharge hose(s) of domestic appliance(s). Also supplied with an 1½" x 75mm water seal tubular swivel 'P' trap
- Each kit is boxed individually and supplied with an illustrative drawing



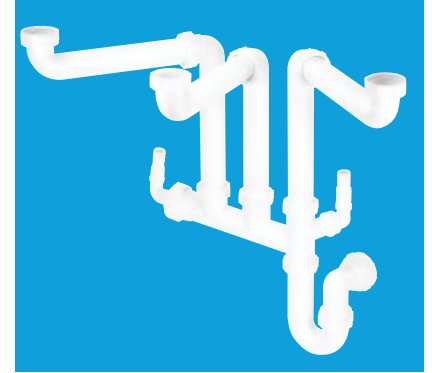
Single Bowl Kit

Code **SSK1**



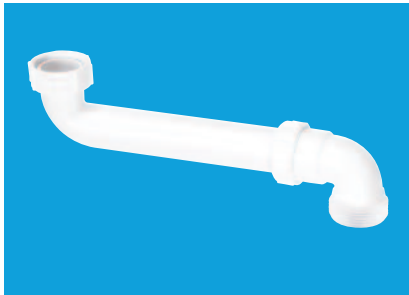
Double Bowl Kit

Code **SSK2**



Three Bowl Kit

Code **SSK3**



1½" Space Saver Trap Inlet

Code **SSINLET1**

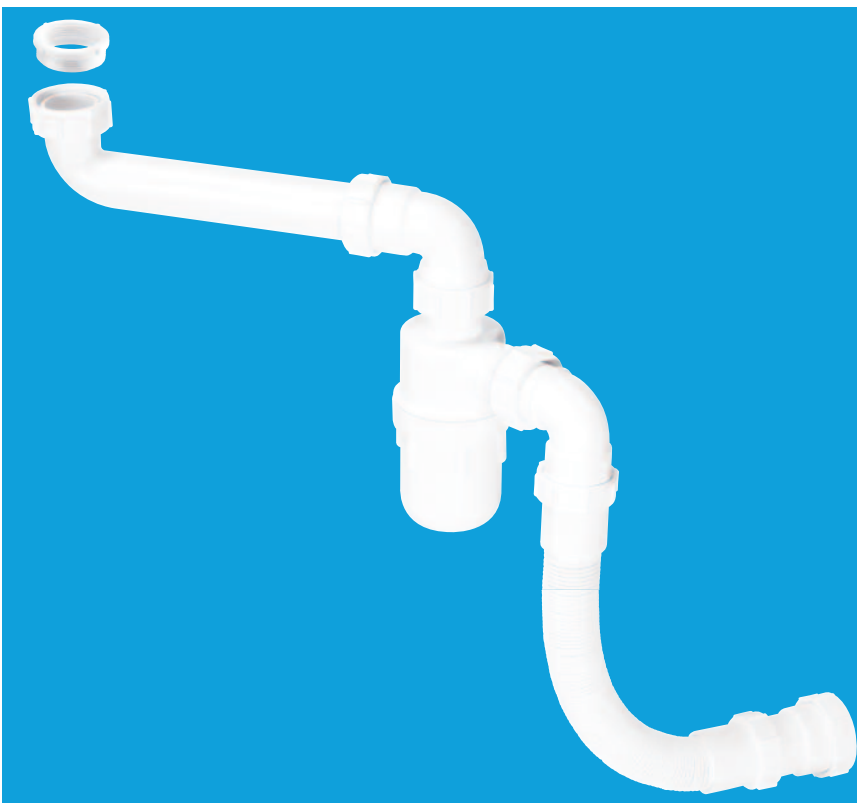
1¼" Space Saver Trap Inlet

Code **SSINLET2**



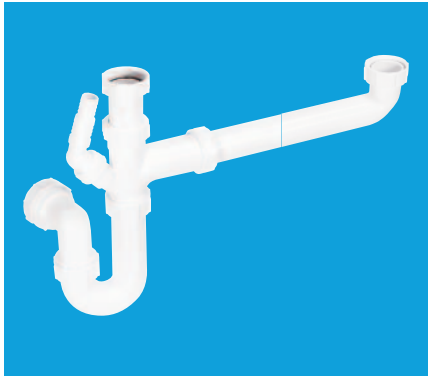
Plumbing Kit for adjustable height basin or sink

Code **FLEXKIT1**



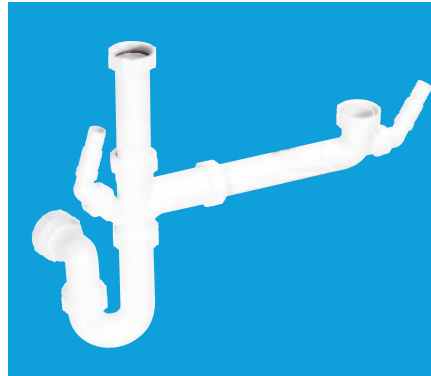
General

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



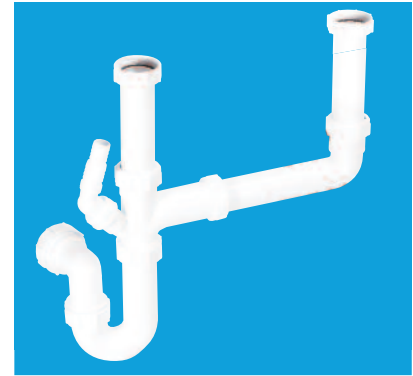
Bowl and a Half Kit

Code **SK1**



Bowl and a Half Kit

Code **SK1A**

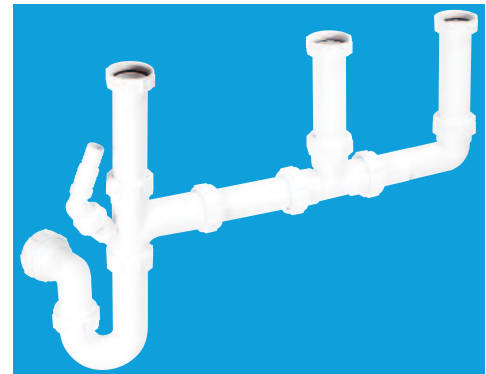


Double Bowl Kit

Code **SK2**



Code **SK1**



Three Bowl Kit

Code **SK3**



Blanking Plug(s)
included with all
plumbing kits

Code **228532**

Condensate Products for Connecting Condensate Discharge

Basin and Sink Traps



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

Code **ASA10-SP***



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

Code **ASC10-SP***



1 1/2" x 75mm Water Seal Tubular Swivel Sink Trap with adjustable inlet, nozzle for discharge hose of domestic appliance and connection for 19/23mm pipe. Supplied with blanking cap

Code **ASC10-CO***



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

Code **OBT1-CO**



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

Code **OBT2-CO**

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

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



200mm Flexible Connector

Code **CONFLEX-200**

300mm Flexible Connector

Code **CONFLEX-300**

Flexible Condensate Pipe Kit

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



Flexible Condensate Pipe Kit - contents

- 1 x 3m length of 25mm flexible pipe
- 6 x 25mm pipe clips
- 2 x Straight connectors with universal connections suitable for 19/23mm rigid pipe and 25mm flexible pipe
- 1 x 1 1/2" plain tail ABS solvent weld reducer to 19/23mm rigid pipe and 25mm flexible pipe

Code

CONFLEX-KIT1

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



110mm x 300mm x 1¼" / 1½"
Pipe top and side Inlet Connections to receive discharge from condensing boiler. 19/23mm x 32mm solvent weld fitting provided to increase size of discharge pipe before it passes through the external wall

Code **SOAK1GR**

Auxiliary Fittings



Pipe Clamp to suit 1¼"/1½"
Pipe to BS EN 1451-1:2000 /BS EN 1329-1:2000 with universal connection for 19/23mm rigid pipe and 25mm flexible pipe

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



1½" x 1½" x 19/23mm Universal Slip Tee with universal connection for 19/23mm rigid pipe and 25mm flexible pipe

Code **V1MX-CO**



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

Code **CONVALVE**



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

Code **R1M-CO**



50mm Tun Dish with 19/23mm pipe outlet

Code **TUN-2**

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 55

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

Bath Traps without Overflows

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

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

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

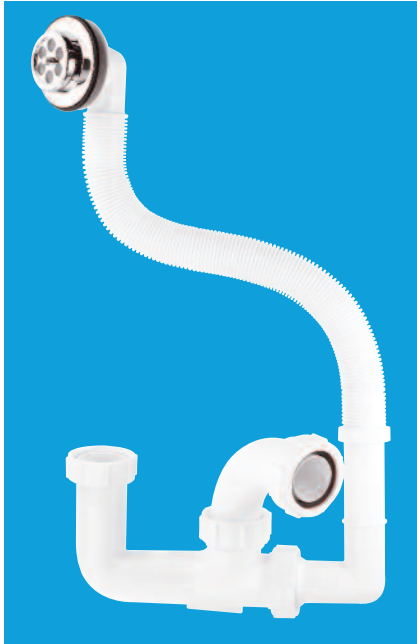
Bath Trap with Top Access

- 1 1/2" x 50mm water seal swivel bath trap
- CP brass waste with top access and spring-loaded mushroom plug
- Matching CP mushroom plug and CP overflow face
- Adjustable flexible overflow tube length 330mm - 580mm
- Overall height of trap only 112mm



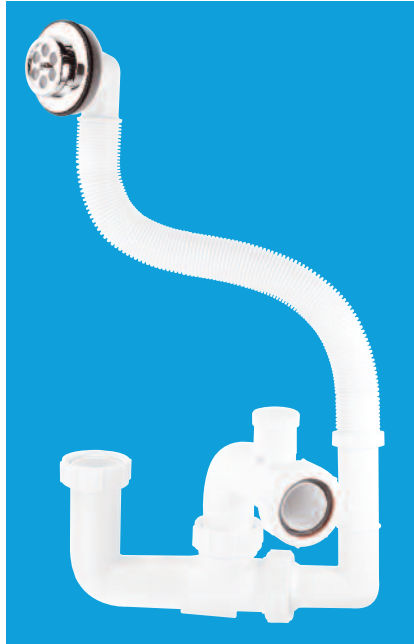
Code **HC2650UK**

Bath Traps with Overflows



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

Code **FJ10**



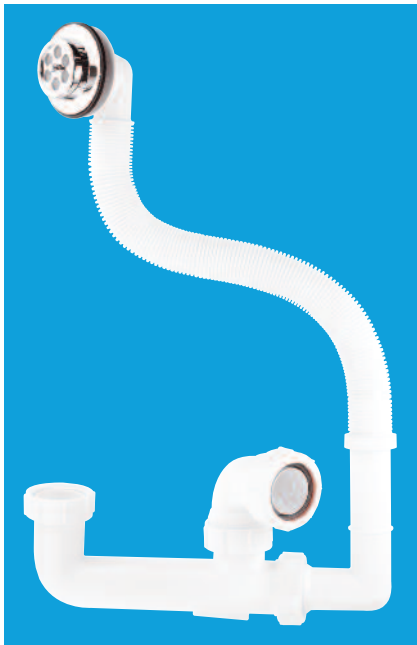
1½" x 75mm Water Seal Anti-Syphon (Silentrap) with flexible overflow tube and CP overflow grating

Code **FJ10V**



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

Code **FJ10WC***



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

Code **FSK10E***



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

Code **FSK10**



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

Code **FSK10V**

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

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

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

Bath Fillers with Trap and Overflow

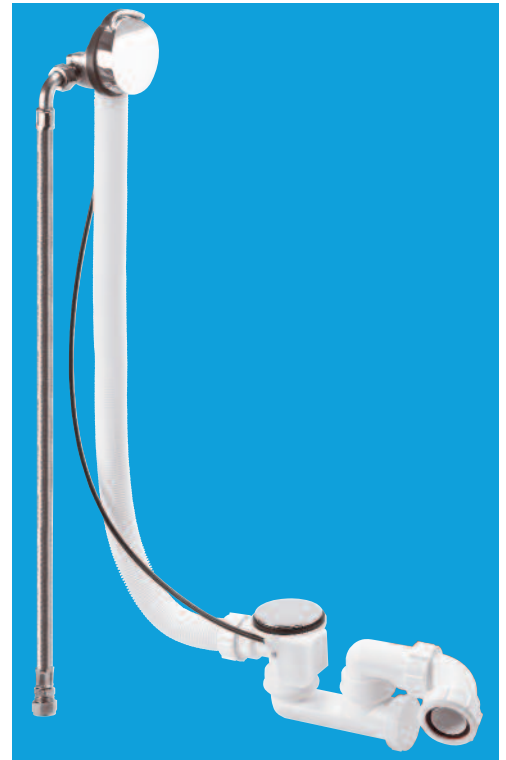
General

- Filler manufactured in cast brass
- Compact filler design 70mm diameter x 25mm deep suitable for curved baths
- Will fit overflow hole size 46mm to 65mm
- 0.5 bar pressure produces 33 litres per minute
1.0 bar pressure produces 44 litres per minute
2.0 bar pressure produces 57 litres per minute
- 650mm WRAS approved braided hose with 90° bend
- All traps 1½" x 50mm water seal with Multifit outlet
- Compression overflow connection to trap
- **HC2650UK-FIL** has a standard overflow length of 575mm but is available with a 1m length. Incorporates a swivel bath trap and CP brass waste with top access spring-loaded mushroom plug. Overall height 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**

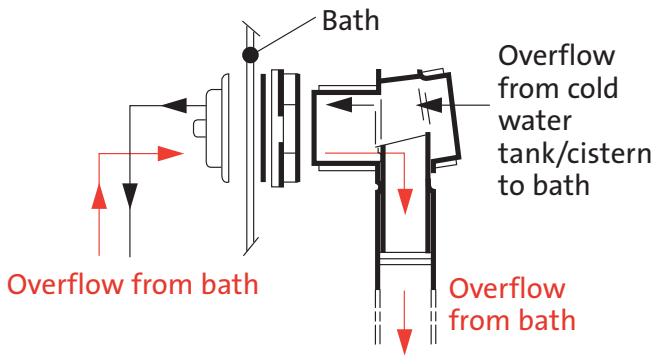


Code **HCN3165UK**
Code **HCN3165UK-1M**



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





General

- Bath Wasteflow units enable the overflow and/or warning pipe from a cold water storage cistern and a WC flushing cistern (not fitted with an integral overflow) to be installed so that the discharge is directed into the bath via the bath overflow grating
- The construction of the Wasteflow is such that whilst acting as a conventional overflow for the bath, any overflow from a connected cistern is discharged through the overflow grating into the bath thereby providing a visible warning
- A feature of the Wasteflow design ensures that should the overflow grating be blocked, the overflow from the cistern is diverted to discharge directly into the bath trap and not

back along the overflow pipe thereby reducing the risk of flooding

- Wasteflow is also available with connection for condensate or condense drain

Advantages

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

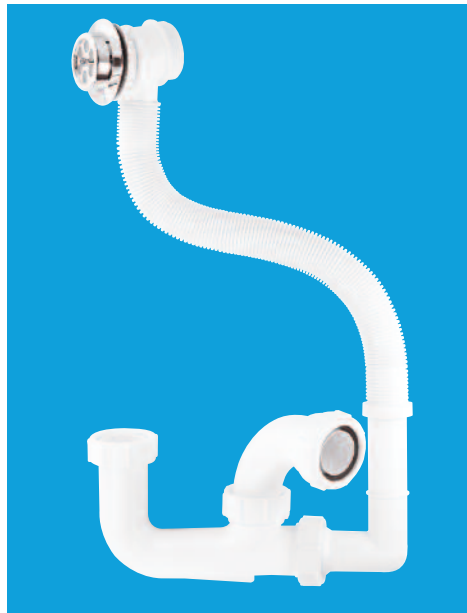
Installation

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



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

With L10 Trap	PUWF3-CP*
With SM10E Trap	PUWF2-CP*



Wasteflow with trap

With FJ10 Trap	FJWF1*
With FSK10 Trap	FSKWF1*

Without Trap	WF1
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■ Bath Waste Outlet Fittings see page 83



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

Code	WF21
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- Wasteflow Manifolds have a 1½" BSP male thread on the inlet and will normally require an additional fitting from the list on page 20

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

Overflow Manifold (Wasteflow) Chrome Plated Bath Trap with Overflow

Wasteflow



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

Code **WF21-SP**

Wasteflow Fittings



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

Code **R11**



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

Code **R12**



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

Code **R13**



¾" In-Line Non-Return Valve

Code **R14**



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

Code **R15**

■ See page 63 for WC Overflow Kits with Tun Dish

Chrome Plated Brass Bath Traps with Combined Waste and Overflow



Trap only

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

Code **BRASSTRAP-50-CP**

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

Code **BRASSTRAP-25-CP**

Trap only

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

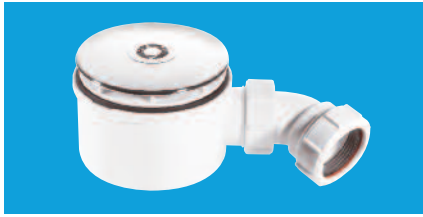
CP Brass Flange

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

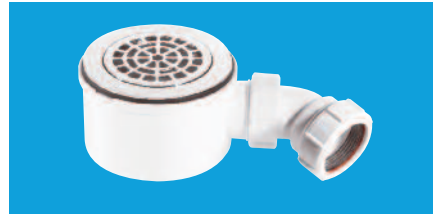
Overall height 70mm



ST90CP10-70



ST90CB10-70



ST90CPB-P-70

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

Overall height 82mm



ST90CP10



ST90CB10



ST90CPB-P

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

Overall height 85mm



ST90CP10-HP2



ST90CB10-HP2



ST90CPB-P-HP2

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

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



ST90CP10-HP



ST90CB10-HP



ST90CPB-P-HP

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

Overall height 108mm



ST90CP10-V



ST90CB10-V



ST90CPB-P-V

90mm Shower Traps with 50mm Water Seal

facilitate easy cleaning

CP Brass Flange

White Plastic Flange

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

Overall height 70mm



ST90CPB-S-70



ST90WH10-70

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

Overall height 82mm



ST90CPB-S



ST90WH10

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

Overall height 85mm



ST90CPB-S-HP2



ST90WH10-HP2

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

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



ST90CPB-S-HP



ST90WH10-HP

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

Overall height 108mm



ST90CPB-S-V



ST90WH10-V

■ For flow rates see page 101

Do not pour drain cleaner down these products

90mm Shower Traps with 50mm Water Seal

1½" Shower Traps with Top Access

Traps with Standard Waste and Flange

- Waste grid and dip tube removable from top to facilitate easy cleaning
- 1½" Multifit outlet
- 70mm or 85mm standard waste and flange - white plastic, CP plastic or CP brass
- Gold plated wastes and grids only supplied as separate items - see page 27

1½" Shower Traps with Top Access

Code STW4-R



70mm White Plastic Flange

85mm White Plastic Flange

19mm Water Seal Trap

Overall height 95mm



STW1-R



STW5-R

50mm Water Seal Trap

Overall height 95mm



STW2-95



STW6-95

50mm Water Seal Resealing Trap

Overall height 118mm



STW2-R



STW6-R

80mm Water Seal Resealing Trap

Overall height 154mm



STW9-R



STW11-R

Do not pour drain cleaner down these products

- For flow rates see page 101

70mm CP
Plastic Flange

85mm CP
Plastic Flange

70mm CP
Brass Flange

85mm CP
Brass Flange

19mm Water Seal Trap

Overall height 95mm



STW3-R



STW7-R



STW3-RB



STW7-RB

50mm Water Seal Trap

Overall height 95mm



STW4-95



STW8-95



STW4B-95



STW8B-95

50mm Water Seal Resealing Trap

Overall height 118mm



STW4-R



STW8-R



STW4-RB



STW8-RB

80mm Water Seal Resealing Trap

Overall height 154mm



STW10-R



STW12-R



STW10-RB



STW12-RB

1 1/2" Shower Traps with Top Access

Do not pour drain cleaner down these products

1½" Shower Traps with Top Access

Traps with Waste and Mushroom Flange

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

70mm White Plastic Mushroom Flange

85mm White Plastic Mushroom Flange

70mm CP Stainless Steel Mushroom Flange

85mm CP Stainless Steel Mushroom Flange

19mm Water Seal Trap Overall height 95mm



STW1-M



STW5-M



STW3-M



STW7-M

50mm Water Seal Trap Overall height 95mm



STW2M-95



STW6M-95



STW4M-95



STW8M-95

50mm Water Seal Resealing Trap Overall height 118mm



STW2-M



STW6-M



STW4-M



STW8-M

80mm Water Seal Resealing Trap Overall height 154mm



STW9-M



STW11-M



STW10-M



STW12-M

1½" Shower Traps with Top Access

70mm Shower Trap and Shower Trap Accessories SECTION 1



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

Code **ST70SS85**

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

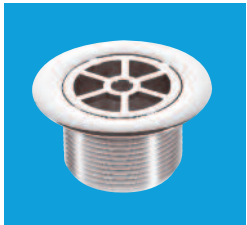
Standard Waste with grid to suit tray with maximum thickness of 22mm



White Plastic
STW70WH
STW85WH



CP Plastic
STW70CP
STW85CP



CP Brass
STW70CPB
STW85CPB



GP Plastic
STW70GP
STW85GP

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



White Plastic
STW70WHL
STW85WHL



CP Plastic
STW70CPL
STW85CPL

Grid only



White Plastic
STWGR-WH



CP Plastic
STWGR-CP



GP Plastic
STWGR-GP

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



STW70LN
STW85LN

Mushroom Flange



White Plastic
STW70WHM
STW85WHM



CP Stainless Steel
STW70SSM
STW85SSM

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



STW70LNL
STW85LNL

70mm Shower Trap and Shower Trap Accessories

Do not pour drain cleaner down these products

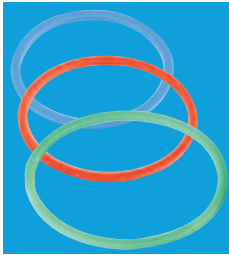
Trap Washers, Bath and Shower Trap Accessories



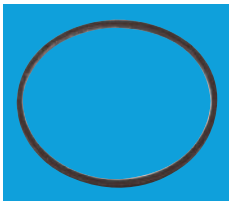
1¼"	1½"	2"
Code	Code	Code
Trap Inlet		
RW1	RW2	RW3



Multifit Rubber Olive		
RWM1	RWM2	RWM3



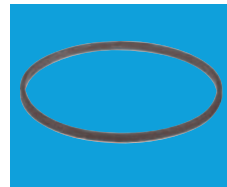
Multifit Plastic Friction Washer		
Blue	Red	Green
PWM1	PWM2	PWM3



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



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



Rubber Seal to suit ST90 dip tube
P-RW-STW90



Rubber 'O' Ring Seal to suit STW dip tube
P-OR-SHOWERTRP



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



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



Long Waste for ST90CP10, ST90CB10 and ST90WH10 traps. To suit tray with maximum thickness of 25mm
ST90W/BODY-L

Shower and Floor Gullies Channel Drain and Tile Drain



SECTION 2



Shower and Floor Gullies, Channel Drain and Tile Drain

General Information

Shower and Floor Gullies

- M^cAlpine has responded to market conditions and customer demand by producing an extensive range of gullies suitable for shower and wet floor areas
- The comprehensive range of gullies is suitable for concrete and suspended timber floors finished with sheet flooring, tiles or stone
- Two-Piece gullies enable the gully to be plumbed prior to installation of timber floors and wetroom floor formers
- M^cAlpine 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^cAlpine 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



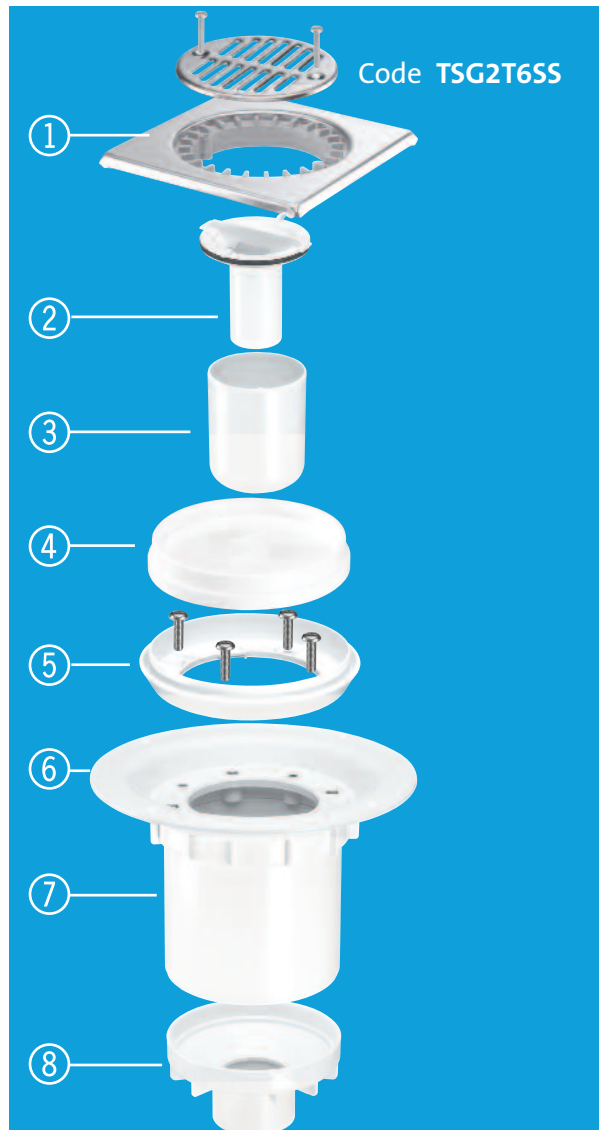
Sheet Flooring

- ① Choice of cover plates with or without securing screws
- ② Cover plate and dip tube assembly. Choice of cover plate finishes available
- ③ Removable sediment cup
- ④ Temporary cover plate. For use during installation as a plug for preliminary air test. Will protect gully from damage by foot traffic and prevent site debris entering the drainage system
- ⑤ Clamp ring with 4 x M6 stainless steel screws
- ⑥ Four indentations suitable for size 8 countersunk screws
- ⑦ Gully body with 2" BS EN 1329-1:2000 solvent weld horizontal outlet
- ⑧ 2" x 1½" BS EN 1329-1:2000 socket reducer



Tile or Stone Floors

- ① Choice of tiles and gratings with or without securing screws
- ② Removable dip tube
- ③ Removable sediment cup
- ④ Dust cap/extension ring. For use during installation to prevent site debris entering the drainage system. The fitting can also be used for raising the height of the tile
- ⑤ Clamp ring for waterproofing membrane and solvent welding tile. The clamp ring has weep holes to allow any moisture at this level to discharge back into the gully and is secured by 4 x M6 stainless steel screws
- ⑥ Four indentations suitable for size 8 countersunk screws
- ⑦ Gully body with 110mm vertical outlet
- ⑧ 110mm x 2" BS EN 1329-1:2000 solvent weld reducer



■ The two products shown illustrate the versatility of the McAlpine range of Trapped Shower Gullies. See pages 32-36 for the full range of Trapped and Untrapped Gullies

Gullies for use with Sheet Flooring

Trapped Gullies

White Plastic Clamp Ring and Cover Plate with Securing Screws

Polished Stainless Steel Clamp Ring and Cover Plate with Securing Screws

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

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



Code **TSG1-WH**

Without securing screws

Code **TSG1WH-NSC**



Code **TSG1SS**

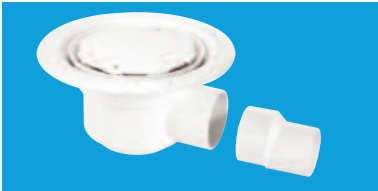


Code **TSG1SS-SL-SC**

Without securing screws

Code **TSG1SS-SL-NSC**

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



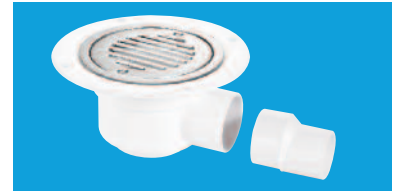
Code **TSG50WH**

Without securing screws

Code **TSG50WH-NSC**



Code **TSG50SS**



Code **TSG50SS-SL-SC**

Without securing screws

Code **TSG50SS-SL-NSC**

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



Code **TSG52WH**

Without securing screws

Code **TSG52WH-NSC**



Code **TSG52SS**



Code **TSG52SS-SL-SC**

Without securing screws

Code **TSG52SS-SL-NSC**

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



Code **TSG2WH**

Without securing screws

Code **TSG2WH-NSC**



Code **TSG2SS**



Code **TSG2SS-SL-SC**

Without securing screws

Code **TSG2SS-SL-NSC**

Gullies without securing screws allow for easier access

White Plastic Clamp Ring and Cover Plate with Securing Screws

Polished Stainless Steel Clamp Ring and Cover Plate with Securing Screws

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

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



Code **TSG3WH**



Code **TSG3SS**



Code **TSG3SS-SL-SC**

Without securing screws

Code **TSG3SS-SL-NSC**

Untrapped Gullies

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



Code **USG1WH**

Without securing screws

Code **USG1WH-NSC**



Code **USG1SS**



Code **USG1SS-SL-SC**

Without securing screws

Code **USG1SS-SL-NSC**

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



Code **USG2WH**



Code **USG2SS**



Code **USG2SS-SL-SC**

Without securing screws

Code **USG2SS-SL-NSC**

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



Code **USG3WH**



Code **USG3SS**



Code **USG3SS-SL-SC**

Without securing screws

Code **USG3SS-SL-NSC**

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

Gullies for use with Sheet Flooring

Gullies for use with Tiled or Stone Floors where a Waterproofing

Trapped Gullies

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

150mm Square White ABS Tile with removable Grid

125mm Diameter Polished Stainless Steel Grating with removable Grid

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



Code **TSG1T6SS**

Without securing screws

Code **TSG1-T150SS**



Code **TSG1T6WH**



Code **TSG1-R125SS**

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



Code **TSG50T6SS**

Without securing screws

Code **TSG50-T150SS**



Code **TSG50T6WH**



Code **TSG50-R125SS**

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



Code **TSG52T6SS**

Without securing screws

Code **TSG52-T150SS**



Code **TSG52T6WH**



Code **TSG52-R125SS**

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



Code **TSG2T6SS**

Without securing screws

Code **TSG2-T150SS**



Code **TSG2T6WH**



Code **TSG2-R125SS**

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

150mm Square White ABS Tile with removable Grid

125mm Diameter Polished Stainless Steel Grating with removable Grid

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



Code **TSG3T6SS**

Without securing screws

Code **TSG3-T150SS**



Code **TSG3T6WH**



Code **TSG3-R125SS**

Untrapped Gullies

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



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

Code

USG1T6SS

Without securing screws

USG1-T150SS



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

USG2T6SS

Without securing screws

USG2-T150SS



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

USG3T6SS

Without securing screws

USG3-T150SS

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

■ For separate Tiles and Gratings see page 40

Two-Piece Gully and Gully with Non-Return Valve

- Two-piece gullies can be used in all floors but they have been specifically designed for use with timber floors and floor formers and can be plumbed prior to the installation of the floor or former. See pages 32-38 for product range
- The Valve Shower Gully (VSG) has been developed to satisfy customer demand for a shallow gully suitable for installation in floors where depth is restricted



Code **TSG52T6SS**



Code **VSG1WH-NSC**

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

SECTION 2

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



White Plastic Clamp Ring with Cover Plate and 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.
Overall height 75mm

	Code
With securing screws	VSG1WH
Without securing screws	VSG1WH-NSC



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	VSG52WH
Without securing screws	VSG52WH-NSC



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

	VSG1T6SS
--	-----------------



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

	VSG1T6WH
--	-----------------

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

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



Two-Piece Gully, 150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws 1½" BS EN 1329-1:2000 solvent weld horizontal outlet.
Overall height 85mm

Code

VSG52T6SS



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

Code

VSG52T6WH

Gullies with Anti-Ligature Grating for use with Sheet Flooring

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



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

Code

TSG1-ANTI/LIG



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

Code

TSG50-ANTI/LIG



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

Code

TSG52-ANTI/LIG



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

Code

TSG2-ANTI/LIG

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

SECTION 2



For Sheet Flooring

19mm Water Seal Trap with 1 1/2" Multifit outlet, white plastic clamp ring and cover plate with securing screws.
Overall height 138mm

Code

TSG1WH-STW1R



For Sheet Flooring

50mm Water Seal Trap with 1 1/2" x 90° swivel Multifit outlet bend, white plastic clamp ring and cover plate with securing screws.
Overall height 138mm

Code

TSG1WHSTW295



For Sheet Flooring

50mm Water Seal Resealing Trap with 1 1/2" x 90° swivel Multifit outlet bend, white plastic clamp ring and cover plate with securing screws.
Overall height 167mm

Code

TSG1WH-STW2R



For Tiled or Stone Floors

19mm Water Seal Trap with 1 1/2" Multifit outlet, 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 138mm

Code

TSG1T6SS+STW1R



For Tiled or Stone Floors

50mm Water Seal Trap with 1 1/2" x 90° swivel Multifit outlet bend, 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 138mm

Code

TSG1T6SSTW295



For Tiled or Stone Floors

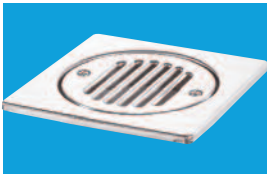
50mm Water Seal Resealing Trap with 1 1/2" x 90° swivel Multifit outlet bend, 150mm square polished stainless steel tile with removable grid and securing screws.
Overall height 167mm

Code

TSG1T6SS-STW2R

Do not pour drain cleaner down these products

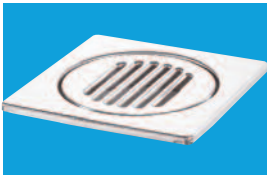
Tiles and Gratings



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

Code

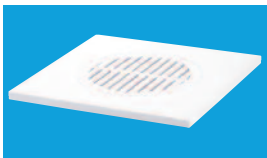
FGTOP6SS



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

Code

FGT150TOP



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

Code

MDTOP-WH



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

Code

MDTOP20-WH



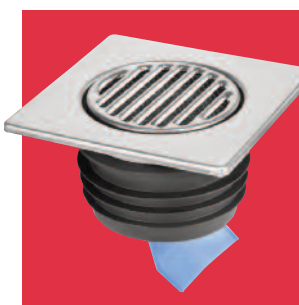
125mm Diameter Polished Stainless Steel Grating with removable grid. Grating has a removable ABS spigot adaptor for solvent welding to clamp ring leaving a rubber gasket to fit inside 110mm pipe. Suitable for stone shower bases

Code

FGTR125TOP

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
- 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 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

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

Trapped Gully Bodies



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

For Tiles and Gratings see page 40

Code	MD100
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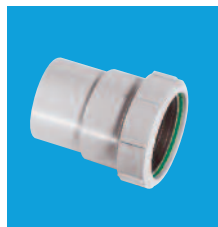


Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully manufactured in grey ABS with 3" solvent weld horizontal outlet. Height can be extended by solvent welding length of 110mm PVC pipe between gully body and tile. Inlet connections are for solvent welding to 1^{1/2}" ABS/PVC pipe, internal fit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

For Tiles and Gratings see page 40

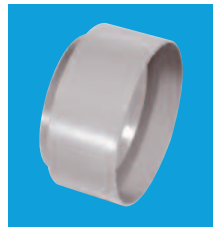
Code	MD100-3
------	----------------

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
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Untrapped Gullies with Top Access for Tiled Floors



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

Code	FD90-T6SS
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Untrapped Gully with 1^{1/2}" BS EN 1329-1:2000 solvent weld horizontal outlet and 150mm square white ABS tile with removable grid. Overall height 68mm

Code	FD90-T6WH
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Do not pour drain cleaner down these products

Channel Drain for Tiled Floors

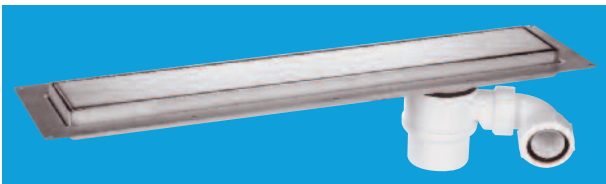
- Supplied with 1½" x 50mm water seal trap with top access for easy cleaning
- Available with polished or brushed finished grade 304 stainless steel cover plate
- Cover plate reversible to accommodate tiles up to 8mm
- Frame height adjustable to suit tiles up to 16mm
- Flow rate 24 litres per minute. Calculated under a constant 15mm head of water

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

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

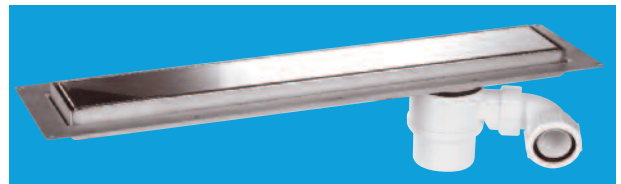


Channel Drain for Tiled Floors



Channel Drain with brushed finish cover plate

Code	CD600-B
Code	CD800-B



Channel Drain with polished finish cover plate

Code	CD600-P
Code	CD800-P



Channel Drain Cover Plate brushed finish

Code	COV600-B
Code	COV800-B



Channel Drain Cover Plate polished finish

Code	COV600-P
Code	COV800-P

Do not pour drain cleaner down these products

Tile Drain for Wet Floor Areas

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



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

Code **ST90-70B**



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

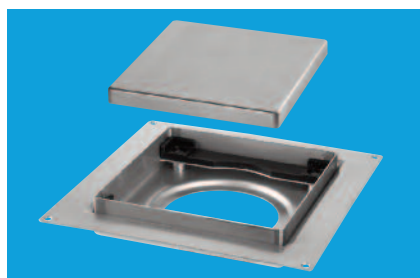
Code **ST90-HP2B**



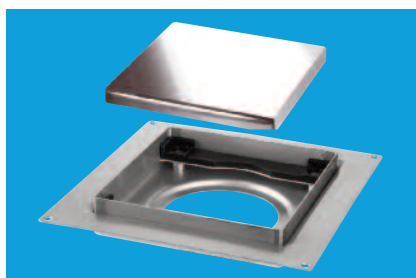
50mm Water Seal Trap Body
with 2" Multifit outlet.
Adjustable height 120-168mm.
Flow rate 50 l/min*

Code **ST90-HPB**

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



Code **TILE-PLAIN-B**



Code **TILE-PLAIN-P**



Code **TILE-LOVE-B**



Code **TILE-MAC-B**



Code **TILE-SOLEIL-B**



Code **TILE-TRIBAL-B**

Do not pour drain cleaner down these products

Installation Guidelines

General Notes and Guidance for Shower Gullies

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

Sheet Flooring

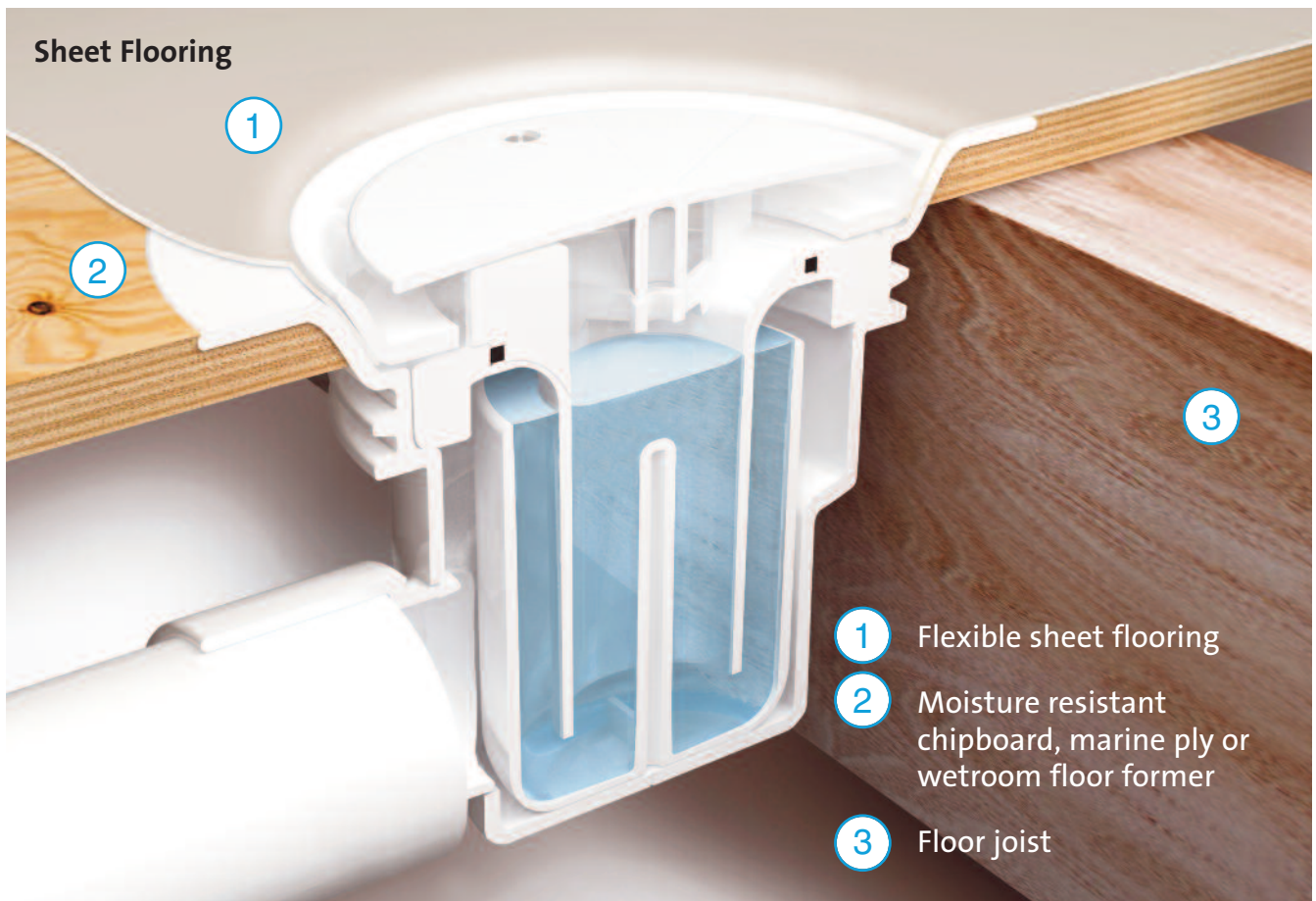
- Set the gully into the floor and ensure that the top surface of the gully flange is flush with, or slightly below, the floor surface on which the flooring is to be laid
- Ensure the gully body is fully supported, do not rely solely on the gully flange for support
- A watertight seal between the underside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

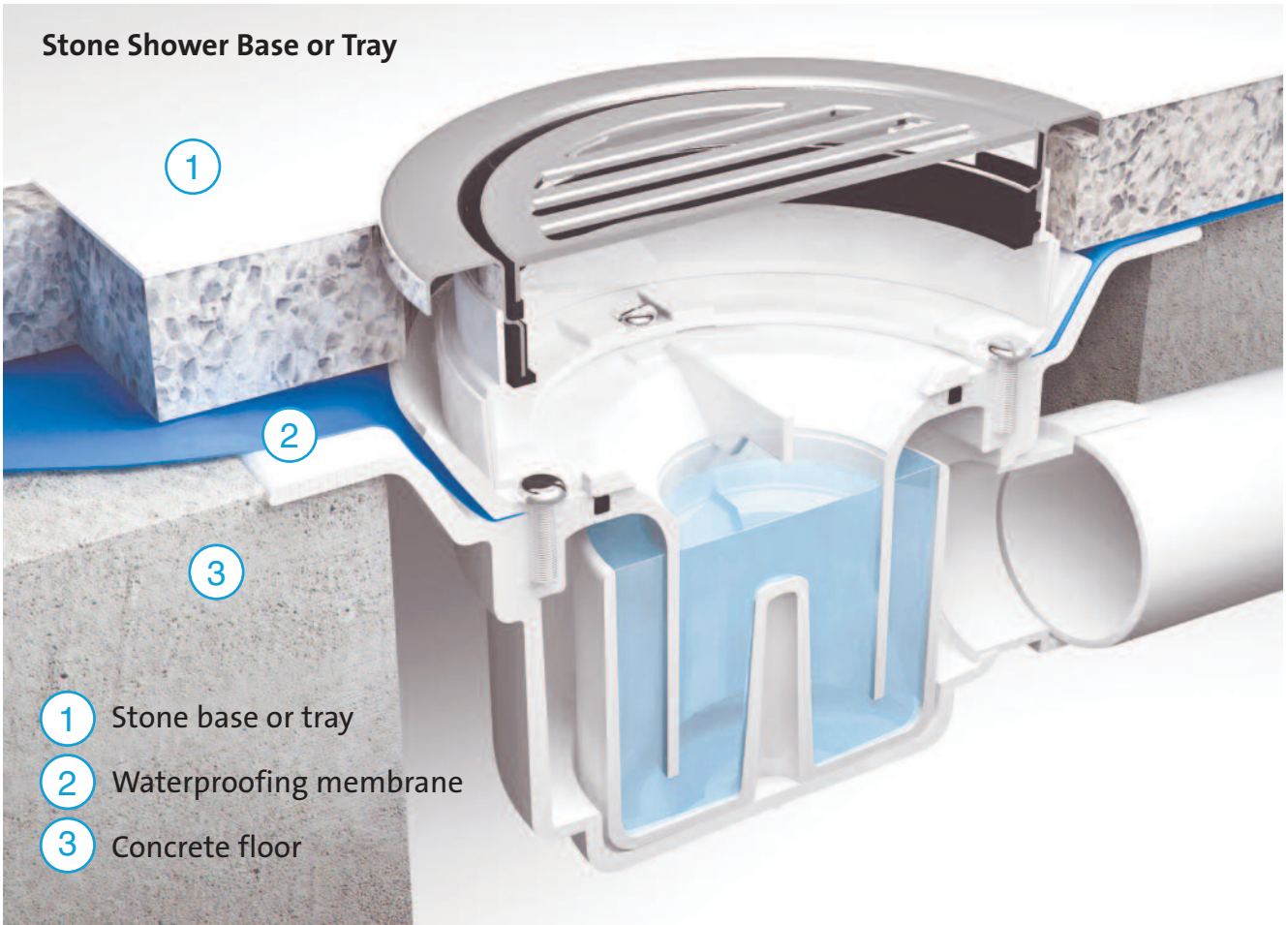
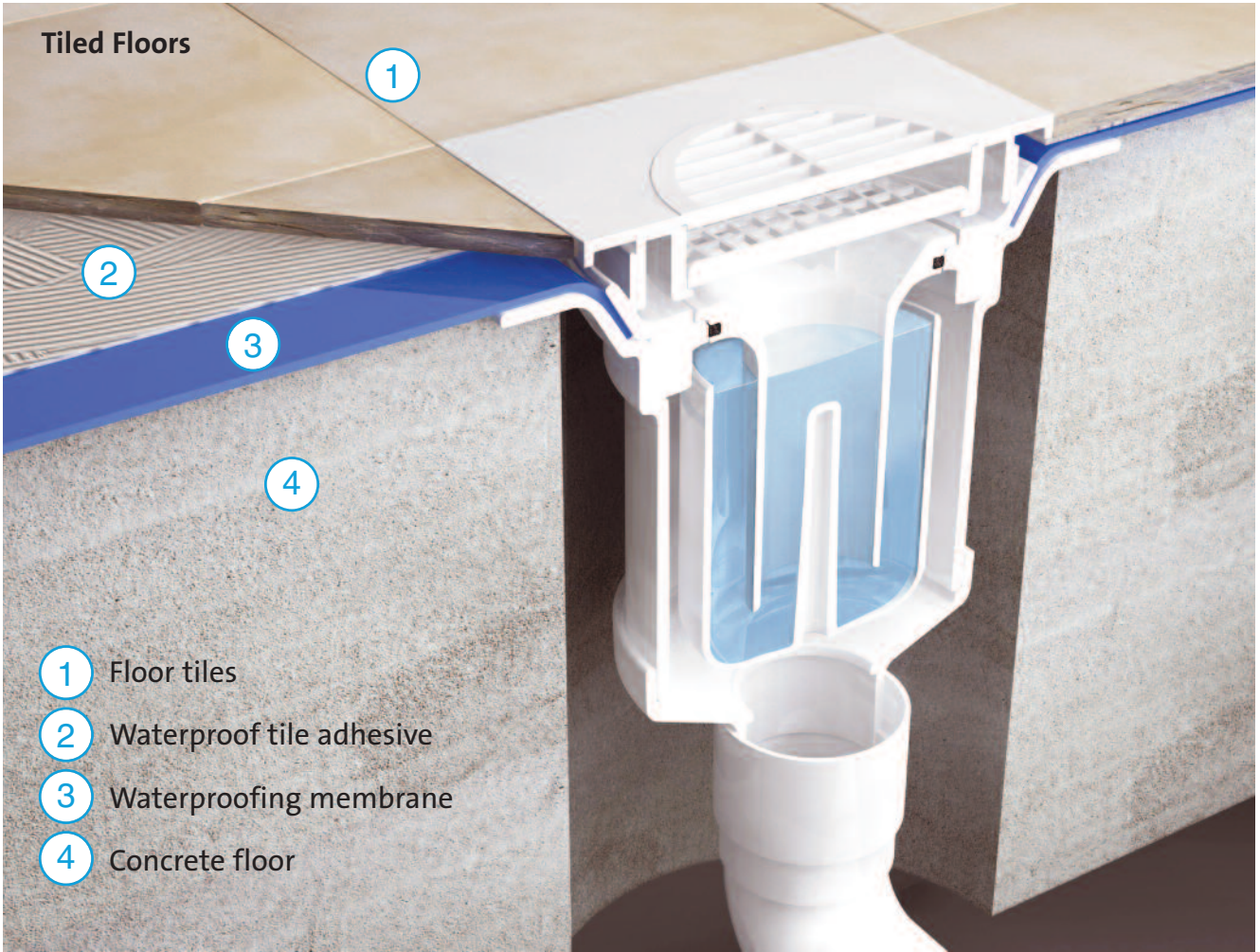
Tiled Floors

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

Stone Shower Bases and Trays

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





Conversion Cover Plate with 1½" Universal Pipe Boss



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

Code **CPTSG**

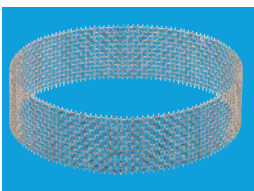
Stopper for TSG Dip Tubes



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

Code **TSGSTOP**

Filter Mesh



Filter Mesh to suit USG1 range of untrapped gullies

Code **MESH-1**

Stability Leg



Optional Stability Leg to suit USG1 range of untrapped gullies

Code **USGLEG1**

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

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

Code **FGTR118TOP**

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

Code **FGTR118TOP-50**

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

Code **TSGCONTV**

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

Code **TSGCONTVSS**

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

Code **TSGCONV**

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

Code **TSGCONVSS**

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

Code **FGTOP6SS**

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

M'ALPINE
Plumbing Products




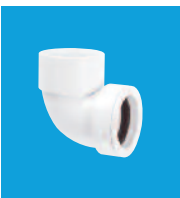





SECTION

3




Plastic Waste Pipe, Fittings and Drain Connectors


Multifit Waste Fittings


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


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


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


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


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


	Rubber Reducer 1¼" x 1"/28mm		
	T12R	-	-


	Straight Connector Multifit x BSP female thread		
	S29	T29	Z29

	Straight Connector Multifit x BSP coupling nut		
	S29-LN	T29-LN	-

	90° Bend Multifit x BSP coupling nut		
	S5M	T5M	Z5M

	95° Bend Multifit x BSP coupling nut		
	S5M-A	T5M-A	-


	135° Bend Multifit x BSP coupling nut		
	-	ST90-OUT	-


	1¼" Code	1½" Code	2" Code
	Straight Connector BSP male thread x Multifit		
	S31M	T31M	-


	Multifit Tank Connector		
	S11M	T11M	Z11M

	Multifit Bent Tank Connector		
	MS4-TANK MT4-TANK MZ4-TANK		

	Blanking Cap for Multifit fittings		
	S23M	T23M	Z23M

	Blanking Cap for waste pipe with universal connection		
	S23U	T23U	Z23U

	2" Caulking Ferrule		
	S21A	T21A	Z21A

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

	Loose Nut		
	S8M	T8M	Z8M

Flexible Waste Fittings and Non-Return Valves

Flexible Connector offers maximum flexibility when conventional fittings cannot be used

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

* Do not solvent weld plain spigot

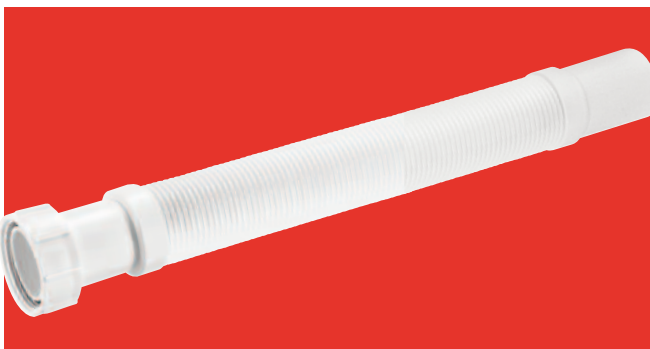


1¼" Code	1½" Code	2" Code
FLEXCON1	FLEXCON2	-

Flexible Connector offers maximum flexibility when conventional fittings cannot be used

- Maximum effective length 18"
- Plain spigot* to suit Multifit and universal outlet traps or waste fittings
- 1½" BSP coupling nut

* Do not solvent weld plain spigot



-	FLEXCON2-LN	-
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Flexible Fittings

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



Universal Connection x Universal Connection

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

Universal Connection x PVC Plain Spigot

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

FLEXCON5	FLEXCON6	FLEXCON8
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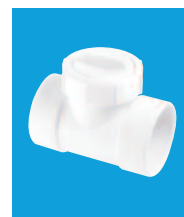
Non-Return Valves



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




-	-	Z28M-NRV
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-	-	Z28M-NRVS
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- Non-Return Valves are designed to prevent a back flow of water. They must only be used when there is no alternative and on the basis that they are cleaned regularly


Sundry Fittings

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


	BSP Nut ordinary		
	S8A	T8A	Z8A
	BSP Nut compression		
S8B	T8B	Z8B	

	Compression Ring for Imperial Copper		
	S13	T13	-


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

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

	Blank Cap with nut for BSP threads		
	S23	T23	Z23


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


BSP Female x BSP Male Couplings


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


	BSP Coupling flush spigot European to UK waste adaptor		
	S12A-F	T12A-F	


BSP Female x BSP Male Couplings


		1 1/4"	1 1/2"
		Code	Code
	BSP Coupling		
1 1/4" x 1"	S12C	-	
1" x 3/4"	S12D	-	


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


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

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

	3/4" Female Blank Cap for blanking off appliance valves with 3/4" male thread		
	Code	NUT-WMVALVE	

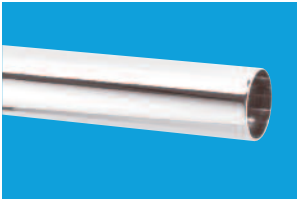




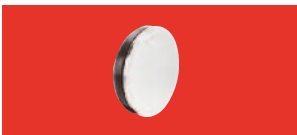
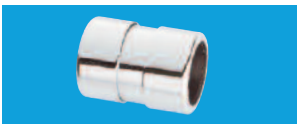

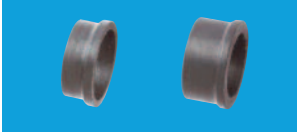





	1" Female Blank Cap for traps and fittings with 1" male thread		
	Code	NUT-BLANK-WH	

	1 1/2" Pipe Clip for floor mounted discharge pipe installations		
	Code	T30-CLAMP	


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

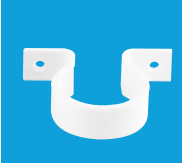



Chrome Plated Brass Waste Pipe and Fittings


	European pipe size	1¼" UK pipe size	1½" UK pipe size
	1m length of CP Brass Pipe		
	PIPE32-1000-CB	PIPE35-1000-CB	PIPE42-1000-CB
	CP Pipe Clip		
	S32-CP	S35-CP	T42-CP
	90° Compression Bend		
	32A-CB	35A-CB	42A-CB
	135° Compression Bend		
	-	35B-CB	42B-CB
	Compression Tee		
	-	-	42E-CB
	Blanking Cap for above fitting		
	-	-	40K-CB
	Compression Straight Connector		
	32G-CB	35G-CB	42G-CB
	Wall Flange		
	WALLFLANGE-CP32	WALLFLANGE-CP35	WALLFLANGE-CP42
	Synthetic Rubber Seal Reducers for above fittings		
		R/SEAL-35X32	R/SEAL-42X32 R/SEAL-42X35
	ABS Solvent Weld Adaptor to convert above fittings to BS EN 1329-1:2000 plastic solvent weld waste pipe		
	ABSCON-32X1.25	ABSCON-35X1.25	ABSCON-42X1.5
	90° Bend 32/35mm compression CP brass x 1¼"		
	ABS32/35A-CB	90° Bend 32mm European pipe size ring seal pushfit x 1¼" Multifit	
	Code	Code	
		MS4-32MM	
	Straight Connector 32/35mm compression CP brass x 1¼"		
	ABS32/35G-CB	90° Bend 32mm European pipe size ring seal pushfit x 1¼" ABS solvent weld	
	Code	Code	
		MS4-32SOLVENT	


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


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


	Pipe Clip		
	S30	T30	Z30

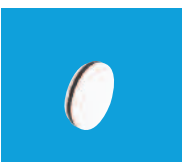
	90° Bend		
	S4L	T4L	Z4L

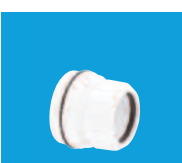
	135° Bend		
	S20L	T20L	-

	Straight Connector		
	S18L	T18L	Z18L


	Straight Connector Multifit x Surefit		
	S28L	T28L	Z28L


	Reducer 1½" to 1¼"		
	-	T12L	-


	Blank Cap without nut		
	S23L	T23L	Z23L


	Reducer for Fittings		
	2"-1¼"	1½"-1¼"	2"-1½"
S26L	T12S	T26L	


	1¼"	1½"
	Code	Code
Swept Tee		
V8L	V1L	

	Swept Tee	
	1½" x 1½" x 1¼"	-

	Swept Tee Surefit x 19mm pushfit branch	
	1½" x 1½" x ¾"	-
1¼" x 1¼" x ¾"	V24L	-

	Swept Tee BSP nut x BSP thread x nozzle for discharge hose of domestic appliance	
	1½" x 1½" x ¾"	-
1¼" x 1¼" x ¾"	V34L	-

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

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

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

	Wall Flange for HDPE pipe		
	S17	T17	-

■ *BS 5254 size - if connecting to boss size BS 5255 add 5255 to code e.g. S4M 5255
 ■ Surefit waste fittings only suitable for M^cAlpine HDPE waste pipe

Drain Connectors and Blanking Off Caps

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



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

Code (Black) **DC1-BL**

Code (Grey) **DC1-GR**

With 14mm offset

Code (Black) **DC1BL-OS**

Code (Grey) **DC1GR-OS**

Drain Connector with Boss



4"/110mm x 4"/110mm Connector with 'O' seal socket to fit 4"/110mm pipe to BS 4514 and 1½" universal pipe boss including blanking cap

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

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

Drain Connector 90° Bend

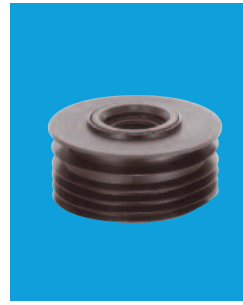


90° Bend 4"/110mm x 4"/110mm with 'O' seal socket to fit 4"/110mm pipe to BS 4514

Code (Black) **DC90-BL**

Code (Grey) **DC90-GR**

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



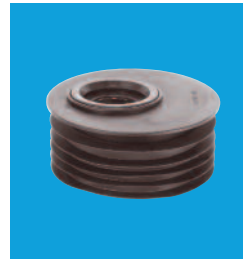
4"/110mm Reducer

Connector with sealing ring to fit to plastic waste pipe

Code

1¼" and 1½" **DC2-BL**

2" **DC3-BL**



4"/110mm Reducer

Connector with offset sealing ring to fit to plastic waste pipe

1¼" and 1½" **DC2BL-OS**

2" **DC3BL-OS**



4"/110mm Blanking Cap

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

Code **DC4-BL**

Temporary Blanking Off Caps



Synthetic Rubber Cap for sealing 110mm pipe

Code **CAP100**



1¼"	1½"	2"
Code	Code	Code

Synthetic Rubber Cap for waste pipe

S23MR	T23MR	Z23MR
--------------	--------------	--------------

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

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



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

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

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

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

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

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



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

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

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

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

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

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

- 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 **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 Connectors



Mechanical Soil and Rainwater Pipe Boss Connector for 1¼" pipe

Code **BOSSCONN1.25BL**

Code **BOSSCONN1.25GR**



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

Code **R16-BL**

Code **R16-GR**



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

Code **BOSSCONN-22MM**

Threaded Boss Connectors



Straight Connector 2" BSP male thread x Multifit

2" BSP x 1¼" Multifit **ZS31M**

2" BSP x 1½" Multifit **ZT31M**

2" BSP x 2" Multifit **Z31M**

General

- MacFlash Aluminium Roof Flashing offers an alternative to traditional lead roof slates
- The aluminium flashing is manufactured from high grade aluminium and the collar from synthetic rubber, both to British Standards. The collar is die-formed to the aluminium flashing

Advantages

- MacFlash is quickly and easily installed and offers cost savings in material and labour
- MacFlash is suitable for flat roofs and for roof pitches up to 45°
- MacFlash has special corrugations that can be easily dressed to form a seal
- MacFlash can be used with flue pipes from condensing boilers

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

Code **RS1**

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

Code **RS4**

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

Code **RS2**

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

Code **RS7**

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

Code **RS3**



Plastic Overflow Pipe and Fittings













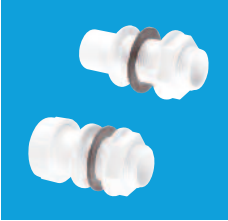



SECTION











4



Plastic Overflow Pipe and Fittings

3/4" Overflow Pipe, Pushfit and Universal Fittings

	Code		Code
HDPE White Overflow Pipe 3/4" x 3m lengths	R-3M	Bent Tank Connectors	
		3/4" pushfit R5	
		19/23mm universal R5M	
	Straight Connectors		Bent Tank Connector 3/4" BSP threaded outlet
3/4" pushfit R1			FTC1AWH
19/23mm universal R1M			
	90° Bends		Straight Female Coupling with fixed nut
3/4" pushfit R2			R6
19/23mm universal R2M			Straight Female Coupling with loose nut
	135° Bends		R6A
3/4" pushfit R2A			Straight Female Coupling with fixed nut for converting male BSP outlets to pushfit fittings
19/23mm universal R2AM			R7
	Tees		90° Female Coupling with loose nut
3/4" pushfit R3			R8A
19/23mm universal R3M			ABS Adaptor to convert 19mm connections up to 23mm OD pipe
	Straight Tank Connectors		R13
3/4" pushfit R4			Reducer in ABS 1 1/4" plain tail to BS EN 1329-1:2000 x 19/23mm universal connection
19/23mm universal R4M			R16
	Blanking Cap for overflow pipe with universal connection		Reducer in ABS 1 1/2" plain tail to BS EN 1329-1:2000 x 19/23mm universal connection
	R23U		R17

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

Standing Waste Backnut Model



All standing wastes are supplied with backnut and washers
Standard length of stand pipe 18"

When ordering state:
 (1) Code
 (2) Height required if not 18"

1 1/4" x 70mm flange x 3 1/2" tail	SWL-18
------------------------------------	---------------

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

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

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

Tank Overflow



Unslotted Waste without Grid

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

1 1/2" x 70mm flange x 3 1/2" tail	W20
------------------------------------	------------

1 1/4" x 70mm flange x 1 1/2" tail	W11
------------------------------------	------------

1 1/2" x 70mm flange x 1 1/2" tail	W21
------------------------------------	------------

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

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

BL30-3/4	-	-	-	-
-----------------	---	---	---	---



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

-	-	SWLFCV	TWLFCV	-
---	---	---------------	---------------	---



In-Line Screened/Filter Pipe Coupling

RWILF	HWILF	SWILF	TWILF	ZWILF
--------------	--------------	--------------	--------------	--------------



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

-	-	S5	T5	Z5M
---	---	-----------	-----------	------------



90° Multifit x Plain End

-	-	MS4L	MT4L	MZ4L
---	---	-------------	-------------	-------------



90° Multifit Bend

-	-	MS4	MT4	MZ4
---	---	------------	------------	------------

Tun Dishes and Non-Return Valves

Tun Dishes



Tun Dish with 3/4" pushfit outlet

Code

TUN-1



Tun Dish with 19/23mm universal outlet

TUN-2



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

TUN-3

Chrome plated

TUN-3CP



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

TUN-4

Chrome plated

TUN-4CP



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

TUN-6

Non-Return Valves for WC Overflow



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

Code

TUNVALVE



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

Code

TUN5-CL

Non-Return Valves



Non-Return Valve with 19/23mm universal connections

Code

R28-NRV



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

Code

R29-NRV

In-Line Non-Return Valves



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

Code

CONVALVE-125



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

Code

CONVALVE-125P

WC Overflow Kits with Tun Dish - Overflow into Flush Pipe

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



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

- Not suitable for use with high level cisterns

Code **TUNKIT-1**

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

- Not suitable for use with high level cisterns

Code **TUNKIT-3**

Tee Pieces



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

- Not suitable for use with high level cisterns

Code **V33T**



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

- Not suitable for use with high level cisterns

Code **V33T-FP**



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

- Not suitable for use with high level cisterns

Code **V33S-22**



Code **TUN-3CP**

Code **TUNVALVE**

WC Connectors

MACFIT, Flexible and Rigid

SECTION

5



WC Connectors

WC Connectors

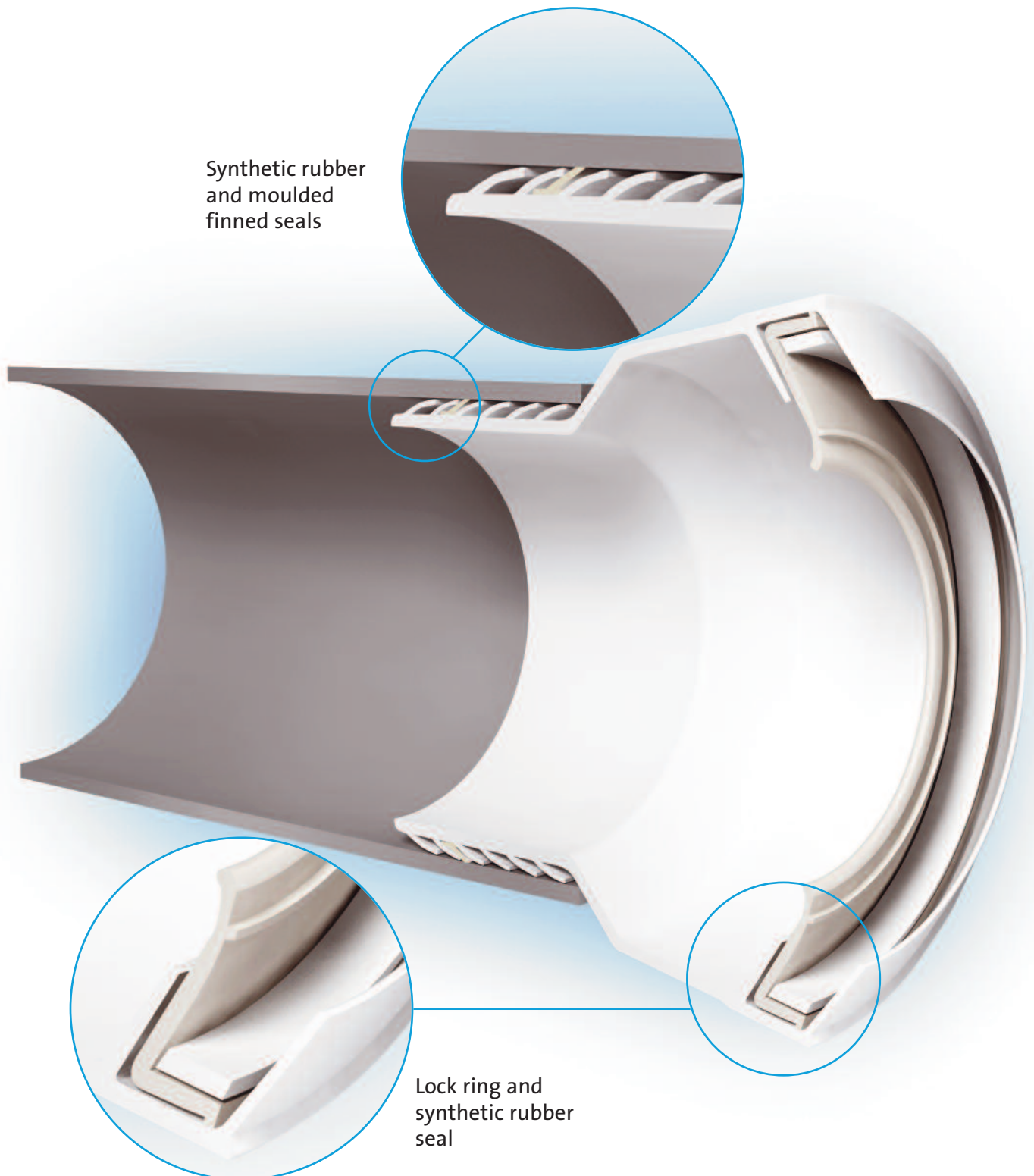
WC Connectors General

- M^cAlpine is the only European manufacturer to offer EVA (ethylene vinyl acetate), rigid polypropylene and flexible polypropylene WC connectors
- Dimensional leaflet for all WC connectors available on request

MACFIT

- MACFIT WC connectors are manufactured in EVA with synthetic rubber and moulded finned seals
- MACFIT incorporates a new 'lock ring' inlet seal (patent pending) to give a superior, tighter connection to the WC pan outlet

MACFIT WC Connectors





Straight
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**



Code **MAC-1**

Flexible WC Connectors

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

■ Tested by German Testing House LGA, certificate number 7311072 and other testing houses. Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose

Closed position Fully extended position

170mm Closed ▽ 410mm Extended	140mm Closed ▽ 310mm Extended	100mm Closed ▽ 160mm Extended
-------------------------------------	-------------------------------------	-------------------------------------

LGA
Quality Certificate
Standardized with
tested quality

97-107mm Inlet 4"/110mm Outlet

WC-F26R **WC-F23R** **WC-F18R**

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

WC-F26RV **WC-F23RV**

97-107mm Inlet 3½"/90mm Outlet

WC-F26S **WC-F23S** **WC-F18S**

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

WC-F26SV **WC-F23SV**

170mm Closed
▽
410mm Extended

140mm Closed
▽
310mm Extended

95mm Closed
▽
195mm Extended

97-107mm Inlet 110mm Plain End Outlet



WC-F26P



WC-F23P

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



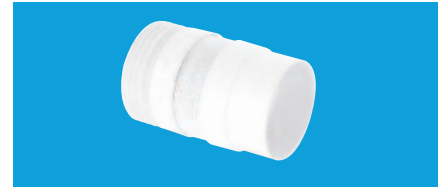
WC-F26PV



WC-F23PV

Flexible Extensions for WC Connectors

110mm Inlet 4"/110mm Outlet



EXTA-F

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



EXTB-F

90° Flexible WC Connectors



Closed	Extended
170mm	250mm

97-107mm Inlet
4"/110mm Outlet

Code **WC-CON8F18**



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

97-107mm Inlet
4"/110mm Outlet

Code **WC-CON8F**



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

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

Code **WC-CON8FV**

Flexible WC Connectors for Back to Wall WC Pan

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



Closed	Extended
150mm	310mm

97-107mm Inlet
4"/110mm Outlet

Code **WC-F21R**



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

Code **WC-F21S**

Patents pending

Rigid WC Connectors

■ Dimensional leaflet available on request



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

Code **WC-CON1**



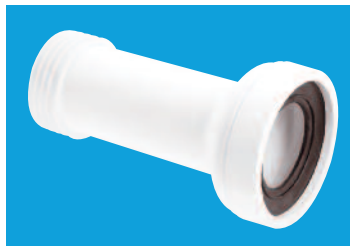
Straight with Vent Boss
97-107mm Inlet
4"/110mm Outlet

Code **WC-CON1V**



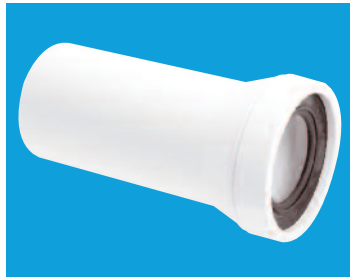
Straight Adjustable Length
97-107mm Inlet
4"/110mm Outlet

Code **WC-CON2**



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

Code **WC-CON2B**



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

Code **WC-CON3**



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

Code **WC-CON4**



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

Code **WC-CON4A**



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

Code **WC-CON4B**



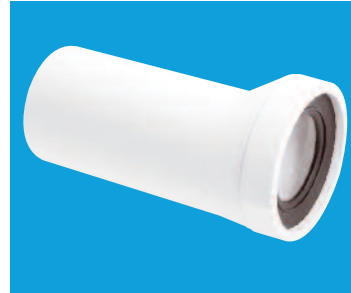
20mm Offset Adjustable Length
97-107mm Inlet
4"/110mm Outlet

Code **WC-CON5**



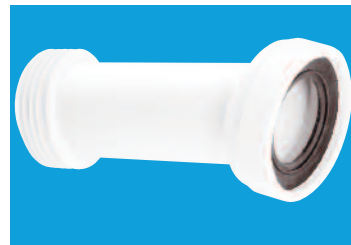
24mm Offset Adjustable Length
97-107mm Inlet
3½"/90mm Outlet

Code **WC-CON5B**



20mm Offset Adjustable Length
97-107mm Inlet
110mm Plain End Outlet

Code **WC-CON6**



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

Code **WC-CON7**



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

Code **WC-CON7A**



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

Code **WC-CON7B**



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

Code **WC-CON16**



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

Code **WC-CON8**



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

Code **WC-CONQ**



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

Code **WC-CON8V**



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

Code **WC-CONQP**



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

Code **WC-CON8E**

Extension Pieces



Straight Extension
Adjustable Length
4"/110mm Outlet

Code **WC-EXTA**



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

Code **WC-CON9**



Straight Extension
Adjustable Length
3½"/90mm Outlet

Code **WC-EXTB**



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

Code **WC-CON9V**



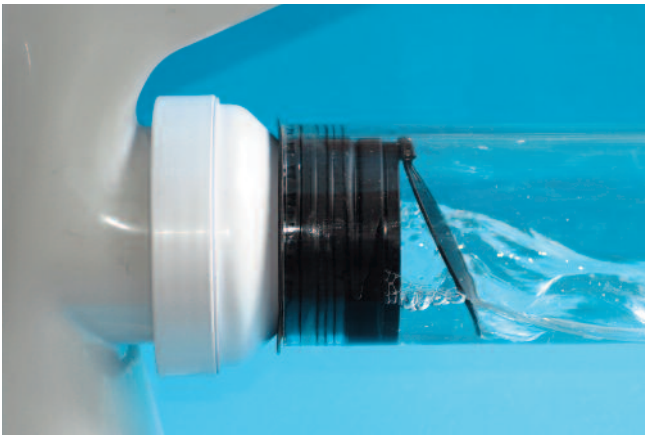
10mm Offset
Extension
Adjustable Length
4"/110mm Outlet

Code **WC-EXTC**



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

Code **WC-EXTD**



Anti Cross-Flow and Rodent Barrier Valve

- Will prevent cross-flow if fitted to WC pans that are installed back to back
- For use where special measures are necessary for control of rodents as recommended in Approved Document H1 The Building Regulations 2000 (2002 edition)
- Manufactured in black polypropylene to prevent light penetration
- Deters rodents from entering building through WC
- For use with any M^CAlpine rigid or flexible WC connector with 4"/110mm rubber outlet seal
- Can be installed in horizontal or vertical position



Open position



Closed position

Code **ARB-1**

Boss Pipe for use with WC Connectors

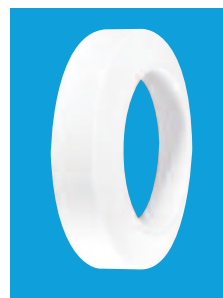
- Finned seal spigot for internal connection to cast iron, plastic or clay 4"/110mm pipe
- Ideal for low level connections



3½"/90mm x 4"/110mm Connector with 'O' seal socket to fit any M^CAlpine 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 above with WC-CON8 (cut down to required length)

Code **WC-BP1**

WC Connector Wall Flange



To fit over 110mm pipe

Code **WC17-110**

To fit over Collar of Flexible WC Connector

Code **WC17-114**

Air Admittance Valves (Ventapipe)

SECTION

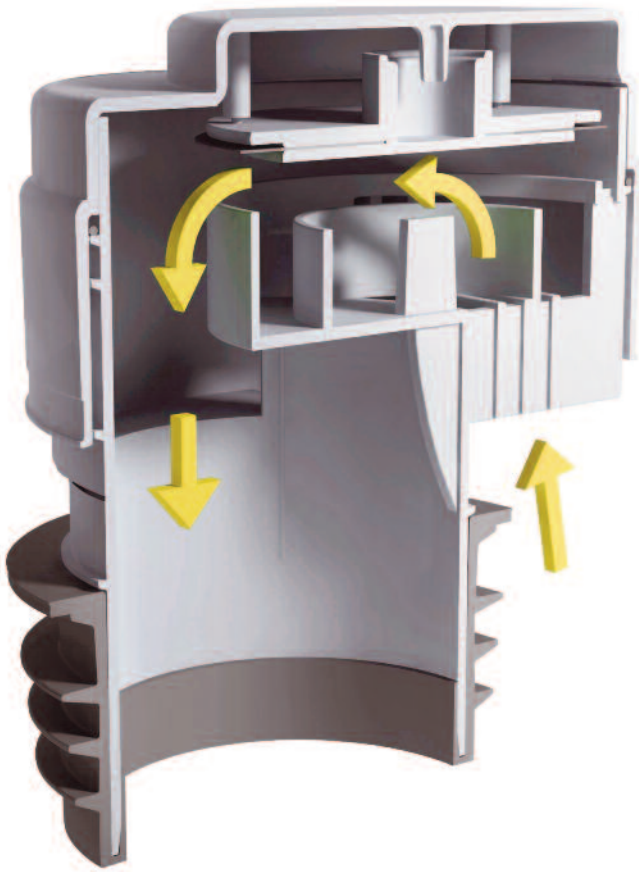
6



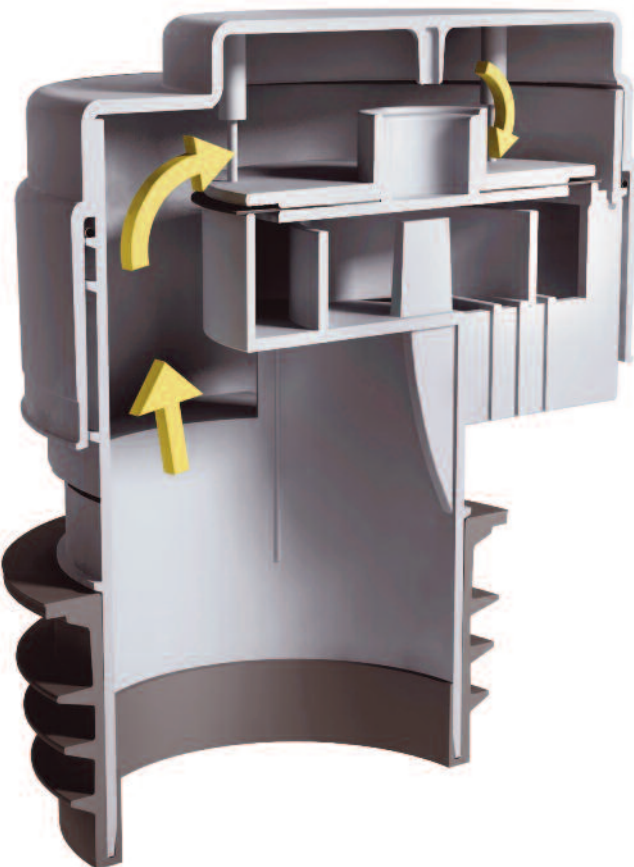
Air Admittance Valves (Ventapipe)

Air Admittance Valves (Ventapipe)

Air Admittance Valves (Ventapipe)



Valve open



Valve closed

Code **VP100**

Ventapipe 100 and Ventapipe 50 Application

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

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

Operation

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

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

Approval

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

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

This means that Ventapipe can be installed:

- Above or below the flood level of connected appliances
- Ventapipe has an operating temperature range of -20°C to + 60°C
- Ventapipe was granted A1 classification without the necessity of a polystyrene cover
- Ventapipe have been tested at -250 Pa for their air flow capacity and the flow rate is stated alongside each valve listed

Quality Certificate

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



Advantages

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

Information for General Guidance only

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

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

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

Ventapipe 15, 25, 40 and 50 Application













VP15, 25, 40 and 50 air admittance valves can be used as alternatives to anti-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 (Ventapipes)

Air Admittance Valves (Ventapipes)

	Code	Class	Air Flow Capacity (Litres per second)	Colour
 <p>Ventapipe 100 with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe 4"/110mm pipe - push over rubber seal 3"/75mm pipe - push into rubber seal</p> 	VP100	A1	47.2	Grey
 <p>Ventapipe 100 with solvent weld outlet for 4"/110mm pipe</p> 	VP100N	A1	19.4	Grey
 <p>Ventapipe 50 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> 	VP50-100	A1	16.3	Grey
 <p>Ventapipe 50 with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe 4"/110mm pipe - push over rubber seal 3"/75mm pipe - push into rubber seal</p> 	VP50P	A1	15.5	Grey
 <p>Ventapipe 50 with 2" universal outlet</p> 	VP50	A1	14.2	Grey
 <p>Ventapipe 40/50 solvent weld outlet for 1½" or 2" BS EN 1329-1:2000 solvent weld waste pipe</p> 	VPSF-40/50	A1	3.0	White

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



VP1	A1	3.0	Grey
VP1W	A1	3.0	White



Ventapipes 25 with 1½" universal outlet



VP2	A1	3.0	Grey
VP2W	A1	3.0	White



Ventapipes 25 with integral 1½" Multifit tee

VP3	-	4.5	White
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Ventapipes 25 with integral 1¼" Multifit tee

VP4	-	2.0	White
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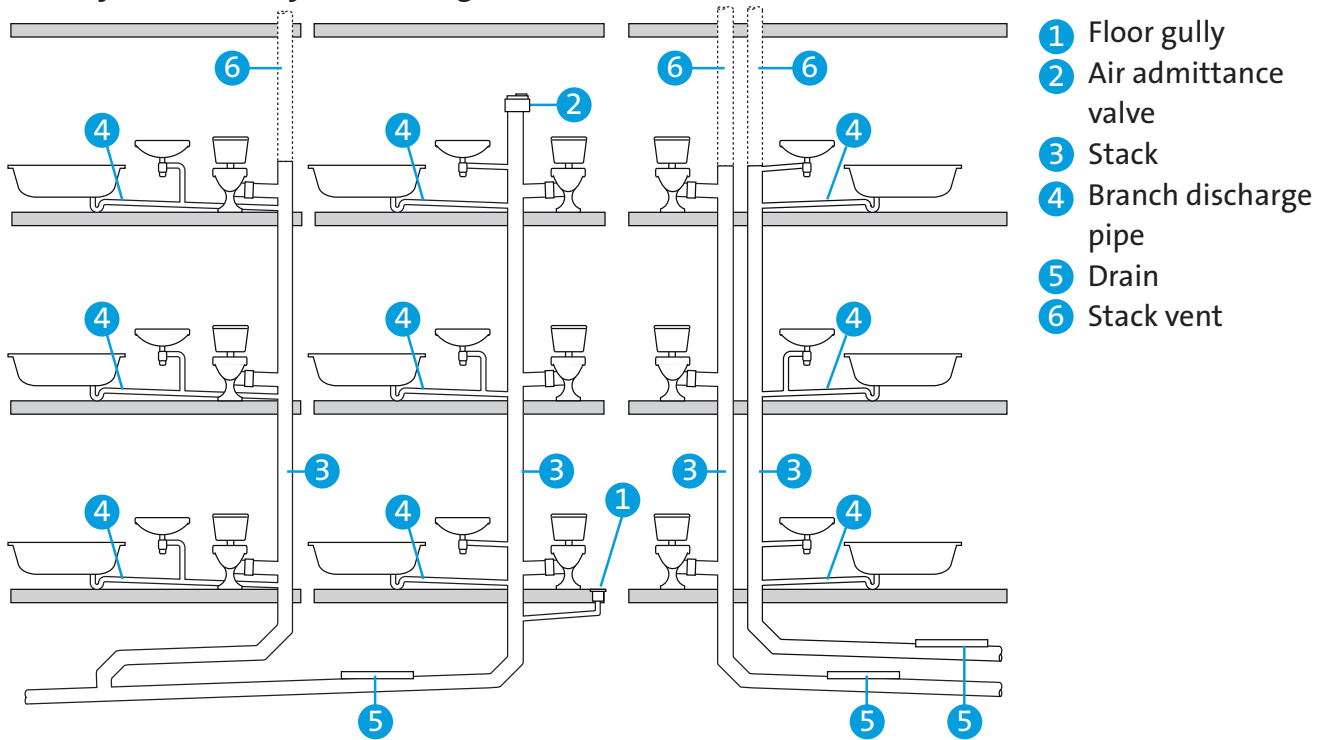


Ventapipes 15 with 1¼" universal outlet

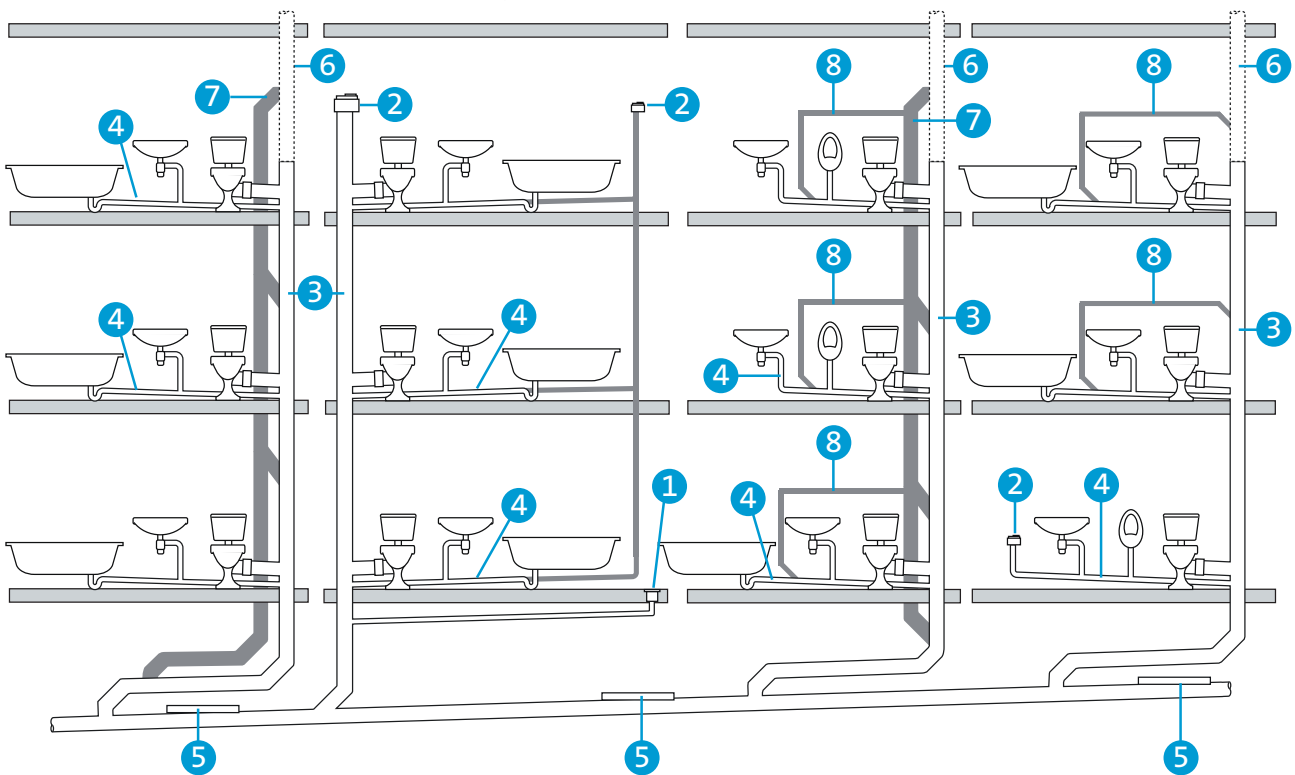
VP15M	-	0.5	Grey
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Illustrations from BS EN 12056-2:2000 Gravity Drainage Systems Inside Buildings to demonstrate installation variations for Air Admittance Valves

Primary Ventilated System Configuration



Secondary Ventilated System Configuration



- 1 Floor gully
- 2 Air admittance valve
- 3 Stack
- 4 Branch discharge pipe
- 5 Drain
- 6 Stack vent
- 7 Ventilating stack
- 8 Branch ventilating pipe

Control of pressure in the discharge stack is achieved by use of separate ventilating stacks and/or secondary branch ventilating pipes in connection with stack vents. Alternatively, air admittance valves may be used.

Waste Outlet Fittings

General

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

Chrome Plated Brass Basin Wastes with Chrome Plated Brass Backnuts



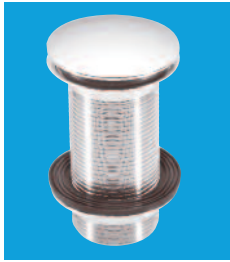
Backnut Model 1 1/4" x 60mm flange x 3 1/2" tail: slotted with spring-loaded mushroom plug

Code **CW60-CB**



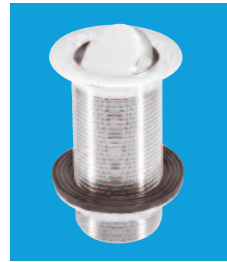
Backnut Model 1 1/4" x 60mm flange x 3 1/2" tail: slotted with swivel plug

Code **CW60SP-CB**



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

Code **CWU60-CB**



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

Code **CWU60SP-CB**



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

Code **DWU60-CB**



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

Code **BW60SPH-CB**



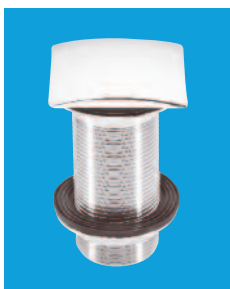
Backnut Model 1 1/4" x 60mm flange x 3 1/2" tail: slotted with square spring-loaded plug

Code **CW60SQ-CB**



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

Code **BWU60SPH-CB**



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

Code **CWU60SQ-CB**

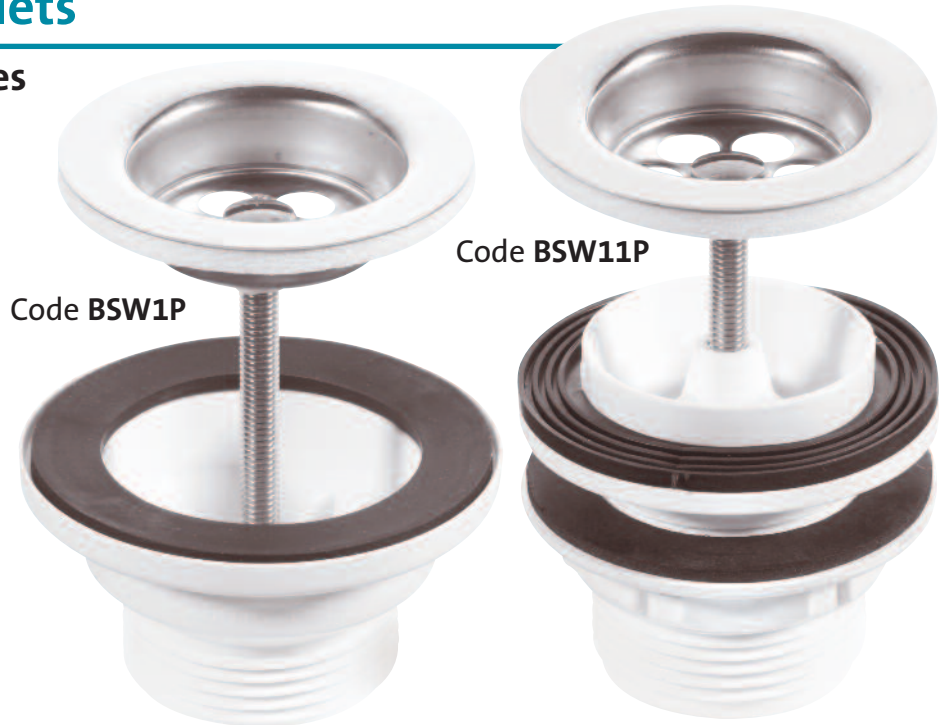


Extended Backnut 1 1/4" x 55mm tail: threaded shroud and extension piece

Code **GWAL-CB**

Basin Waste Outlets

Centre Pin Basin Wastes



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

Centre Pin Basin Wastes - Stainless Steel Flange



Centre Pin Model

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



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

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

Backnut Basin Wastes - Chrome Plated Plastic



Backnut Model

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



Backnut Model

1 1/4" x 60mm flange x 3 1/2" tail: slotted: CP plug	CW1
--	------------

Basin Waste Outlets

Backnut Basin Wastes - Stainless Steel Flange



Backnut Model

	Code
1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug	BSW1
1 1/4" x 60mm flange x 3 1/2" tail: unslotted: plug	BSW2



Backnut Model

1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug	BSW12
1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug with triangle	BSW12T
1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug with CP chain and stay	BSW12C



Backnut Model - white plastic

1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug	W1
1 1/4" x 60mm flange x 3 1/2" tail: slotted: plug with CP chain and stay	W1C
1 1/4" x 60mm flange x 3 1/2" tail: unslotted: plug	W1A

Combined Wastes and Overflows for Vanity Basin

Centre Pin Models - stainless steel flange

Banjo Model - white plastic



1 1/4" x 60mm flange:
CP overflow grid: plug and CP chain



1 1/4" x 60mm flange:
CP overflow grid: plug and CP chain



1 1/4" x 60mm flange x 3 1/2" tail: plug and CP chain

Code **FVW1P***

Code **FVW1PC**

Code **FVW1PW**

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

Bath Wastes with Spring-Loaded Mushroom Plugs



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

Code **CBW70-CB**

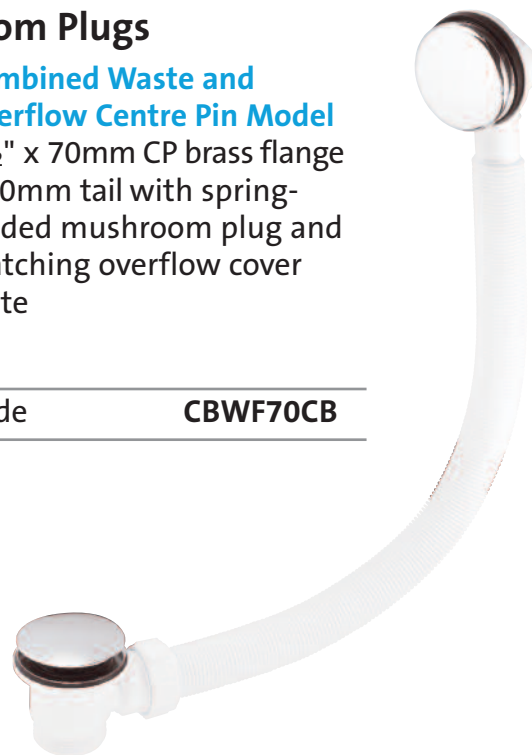


Centre Pin Model 1½" x 70mm CP brass flange x 60mm tail with spring-loaded mushroom plug

Code **CWS70-CB**

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

Code **CBWF70CB**



Centre Pin Bath Wastes - Stainless Steel Flange



Centre Pin Model

1¼" x 70mm flange: plug

Code **BSW9P**

1¼" x 70mm flange: plug and CP chain

Code **BSW9PC**

1½" x 70mm flange: plug

Code **BSW10P**

1½" x 70mm flange: plug and CP chain

Code **BSW10PC**



1½" x 70mm flange: plug

Code **BSW15P**

1½" x 70mm flange: plug and CP chain

Code **BSW15PC**

Backnut Bath Wastes



Backnut Model - stainless steel flange

1½" x 70mm flange x 1½" tail: unslotted: plug

Code **BSW10**



Backnut Model - chrome plated plastic

1½" x 70mm flange x 1½" tail: unslotted: plug

Code **BW5**

1½" x 70mm flange x 1½" tail: unslotted: CP plug

Code **CW5**



Backnut Model - white plastic

1¼" x 70mm flange x 1½" tail: unslotted: plug

Code **W4**

1½" x 70mm flange x 1½" tail: unslotted: plug

Code **W5**

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

Pop-Up Bath Wastes and Overflows

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



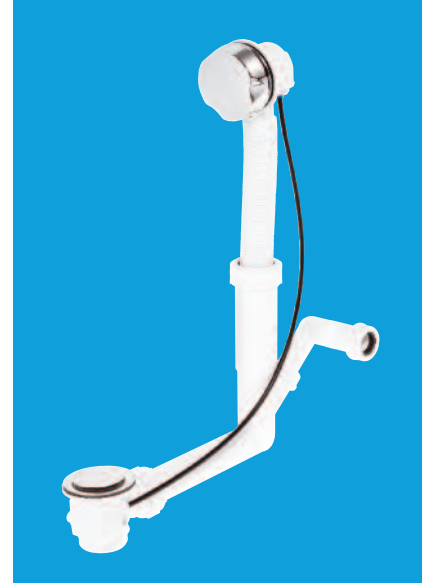
1½" x 70mm flange with CP brass overflow/command knob

Code **PUB-CPB**



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

Code **PUB-CPX**



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

Code **PUBX-SP**

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

Code **PUB-CP**

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

Code **PUB-WH**

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

Push Button Bath Pop-Up Waste with Trap and Overflow

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

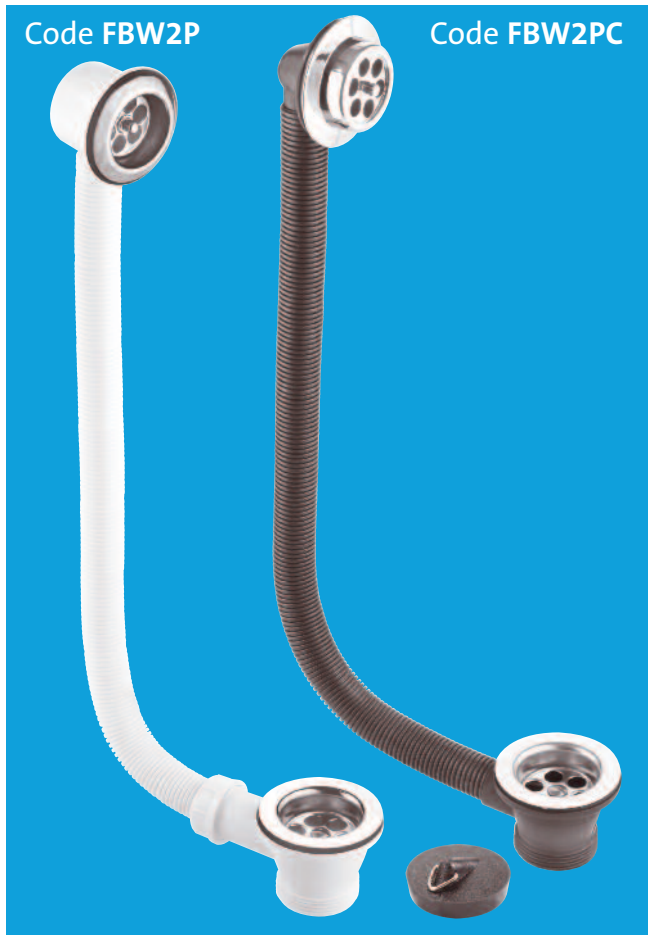


Code **PUB-PB-575**

Code **PUB-PB-700**

Code **PUB-PB-1M**

Combined Wastes and Overflows



Centre Pin Model - stainless steel flange

Code

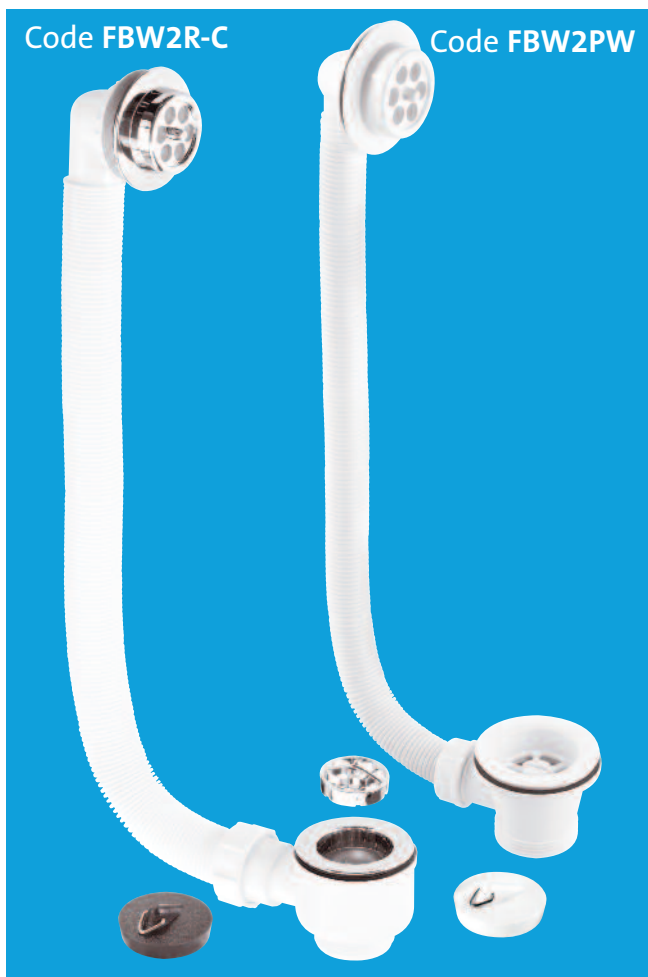
1¼" x 70mm flange: SS overflow grating:
plug and CP chain **FBW1P***

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 16

Sink Waste Outlets

Centre Pin Sink Wastes - Stainless Steel Flange



Centre Pin Model

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



Centre Pin Model

1 1/2" x 85mm flange: black PVC handle plug	BSW6PR
---	---------------



Centre Pin Model

1 1/2" x 70mm flange: black PVC handle plug	BSW10PR
---	----------------



Centre Pin Model

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



Centre Pin Model Waste for Belfast Sink

1 1/2" x 85mm flange: CP handle plug	BSW6CP2H
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Centre Pin Model Reducer Waste

1 1/2" x 113mm flange: black ABS handle plug	SW45P
1 1/2" x 113mm flange: plug with CP chain and stay	BSW45P

Backnut Sink Waste



Backnut Model - white plastic

1 1/2" x 85mm flange x 3 1/2" tail: unslotted: plug	W3
---	-----------



Centre Pin Model - stainless steel flange

Code

1¼" x 85mm flange: CP overflow grid: plug and CP chain

FSW1PC

1½" x 85mm flange: CP overflow grid: plug and CP chain

FSW2PC

1½" x 70mm flange: CP overflow grid: plug and CP chain

FSW2PC-70



Centre Pin Model - stainless steel flange

1¼" x 85mm flange: black overflow grid: plug and CP chain

FSW1PP

1½" x 85mm flange: black overflow grid: plug and CP chain

FSW2PP

1½" x 70mm flange: black overflow grid: plug and CP chain

FSW2PP-70



Centre Pin Model - stainless steel flange

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

FSW2PR

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

FSW2PR-70



Centre Pin Model - stainless steel flange

1¼" x 85mm flange: CP overflow grid: plug with CP chain and stay

FSW1P*

1½" x 85mm flange: CP overflow grid: plug with CP chain and stay

FSW2P*

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



Reducer Waste and Overflow

Centre Pin Model - stainless steel flange

1½" x 113mm flange: CP overflow grid: plug and CP chain

FSW45P

Basket Strainer Wastes

Basket Strainer Wastes



Centre Pin Model - stainless steel flange
Stemball plug

Code

1½" x 113mm flange

BWSTSS

1½" x 113mm flange: PVD finish (gold)

BSWPVD



Centre Pin Model - stainless steel flange
Spring-Loaded plug

1½" x 113mm flange

BSWCLS



Backnut Model - chrome plated brass
Spring-Loaded plug

1½" x 113mm flange

BSW-BR-CP



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

1½" x 113mm flange: CP overflow grid

BWSTOFSS

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

FBSWPVD

Centre Pin Model - stainless steel flange
Spring-Loaded plug

1½" x 113mm flange: CP overflow grid

BSWCLS-OFSS



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

1½" x 85mm flange

MBSWSS85

1½" x 85mm flange: PVD finish (gold)

MBS85PVD



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

1½" x 85mm flange: CP overflow grid

FMBSWSS85

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

FMBS85PVD

Basket Strainer Wastes



Stainless Steel Strainer plug
for Basket Strainer Waste
stemball model

Code

BWSTSS-TOP



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

Code

BSKTOP

Pop-Up Wastes and Overflows

Centre Pin Model - stainless steel flange

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

Pop-Up Basket Strainer Wastes and Overflows

Centre Pin Model - stainless steel flange

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



Shower Waste Outlets

Centre Pin Shower Wastes - Stainless Steel Flange



Centre Pin Model - stainless steel flange

Code

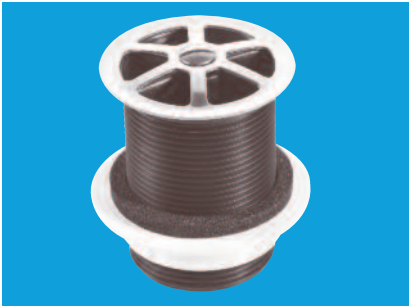
1¼" x 70mm flange

BSW9P-F

1½" x 70mm flange

BSW10P-F

Backnut Wastes



Backnut Model - stainless steel flange

1½" x 60mm flange x 70mm tail

CSWU3P



Backnut Model - CP plastic

1½" x 70mm flange x 1½" tail

CWS5



Backnut Model - white plastic

1½" x 70mm flange x 1½" tail

WS5



Backnut Model - white plastic

1½" x 85mm flange x 3½" tail

WS3



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

1½" x 113mm flange x 2¾" tail

SWHF1-WH

2" x 113mm flange x 2¾" tail

SWHF2-WH



Code **SWHF3-CP**

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

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



Code **SWHF6-WH**

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

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

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 **UPSW-1**



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

Code **UPSW-2**



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

Code **UPSW-3**



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

Code **UPSW-2-22MM**



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

Code **UPSW-3-22MM**



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

Code **UPSW-4-22MM**

Pumped Shower Waste Outlets



Code **UPSW-3-22MM**

Backnut Urinal Wastes



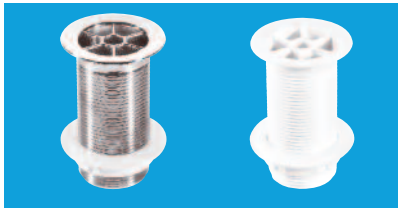
Backnut Model - domed flange

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



Backnut Model - domed flange with removable dome

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



Backnut Model - flush flange

1¼" x 60mm flange x 3½" tail: CP plastic	CWU1A
1¼" x 60mm flange x 3½" tail: white Plastic	WU1A



Backnut Model - flush flange

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



WhiffAway - Backnut Model

Eliminates odours and reduces water usage

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

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

Waste with plug for Caravans and Boats







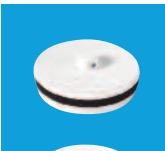


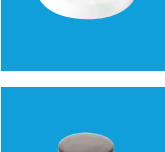



This waste has a plain tail and can be fitted into any 1¼" x 75mm water seal adjustable inlet trap - e.g. AA10 see pages 6 and 8. Remove standard adjustable inlet supplied and substitute fitting

50mm plastic flange: ¾" BSP thread: plug: special locking nut	CTW1
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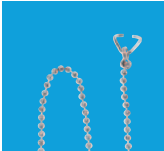



Waste Accessories and Soap Dispenser

Plugs


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

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


Backnuts

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


Tap Hole Stoppers

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

Overflow Stopper

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

Soap Dispenser

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

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^cAlpine Top Access Shower Trap
- 55 Tun Dish with 19/23mm Universal Outlet
- 56 Side Inlet Tun Dish with 19/23mm Universal Outlet
- 57 Top Inlet Tun Dish with 19/23mm Universal Outlet
- 58 3/4" Overflow x 1 1/2" Flushpipe Tee
- 59 Nozzle for M^cAlpine 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^cAlpine 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 ⁽¹⁾	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	1.1	4.4 ⁽¹⁾	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	0.7	8.7 ⁽¹⁾	0	0
Washbasin, Bidet (30mm diameter trap)	40	75	3.0	1.8 to 4.4	2	0
Shower, Bath	40	50	No Limit ⁽²⁾	1.8 to 9.0	No Limit	1.5
Bowl Urinal	40	75	3.0 ⁽³⁾	1.8 to 9.0	No Limit ⁽⁴⁾	1.5
Trough Urinal	50	75	3.0 ⁽³⁾	1.8 to 9.0	No Limit ⁽⁴⁾	1.5
Slab Urinal ⁽⁵⁾	60	50	3.0 ⁽³⁾	1.8 to 9.0	No Limit ⁽⁴⁾	1.5
Kitchen Sink (40mm diameter trap)	40	75	No Limit ⁽²⁾	1.8 to 9.0	No Limit	1.5
Household Dishwasher or Washing Machine	40	75	3.0	1.8 to 4.4	No Limit	1.5
WC with Outlet up to 80mm ⁽⁶⁾	75	50	No Limit	1.8 Min.	No Limit ⁽⁴⁾	1.5
WC with Outlet greater than 80mm ⁽⁶⁾	100	50	No Limit	1.8 Min.	No Limit ⁽⁴⁾	1.5
Food Waste Disposal ⁽⁷⁾	40 Min.	75 ⁽⁸⁾	3.0 ⁽³⁾	13.5 Min.	No Limit ⁽⁴⁾	1.5
Sanitary Towel Disposal Unit	40 Min.	75 ⁽⁸⁾	3.0 ⁽³⁾	5.4 Min.	No Limit ⁽⁴⁾	1.5
Floor Drain	50	50	No Limit ⁽³⁾	1.8 Min.	No Limit	1.5
Floor Drain	70	50	No Limit ⁽³⁾	1.8 Min.	No Limit	1.5
Floor Drain	100	50	No Limit ⁽³⁾	1.8 Min.	No Limit	1.5
4 Basins	50	75	4.0	1.8 to 4.4	0	0
Bowl Urinals ⁽⁸⁾	50	75	No Limit ⁽³⁾	1.8 to 9.0	No Limit ⁽⁴⁾	1.5
Maximum of 8 WC's ⁽⁶⁾	100	50	15.0	0.9 to 9.0	2	1.5
Up to 5 Spray Tap Basins ⁽⁹⁾	30 Max.	50	4.5 ⁽³⁾	1.8 to 4.4	No Limit ⁽⁴⁾	0

Technical Details

Installation Information

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

Trap Inlets

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

Trap Outlets and Multifit Fittings see Page 2

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

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

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

Universal Trap Outlets and Fittings

Fit as Multifit but internal sleeve not applicable

Surefit Fittings see Page 53

To BS EN 1329-1:2000

For use with M^CAlpine HDPE waste pipe only. Fit as follows:

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

- Push pipe into socket
- Connect nut and hand tighten

Pushfit Fittings see Page 59

For use with M^CAlpine overflow pipe. Fit as follows:

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

Pipe Clipping

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

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



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

All M^CAlpine shower traps with top access surpass the minimum required flow rate of 24 litres per minute when tested in accordance with clause 5 of BS EN 274-2:2002

It should be noted that we have a trap to meet the requirements of most shower tray installations and flow rates for individual shower traps are available upon application

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

Flow rates for individual shower traps available upon application

Code **WC-CON8F18**



Code **VP50P**

**Traps and Waste Outlet Fittings see Sections 1 and 7**

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

Bath Fillers see Page 18

M^CAlpine bath fillers have the following flow rates:

0.5 bar pressure produces 33 litres per minute

1.0 bar pressure produces 44 litres per minute

2.0 bar pressure produces 57 litres per minute

Condensate Products see Pages 14-15

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

Shower and Floor Gullies see Section 2

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

Surefit Waste System see Page 53

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

MACFIT WC Connectors see Pages 66 and 67

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

Rigid WC Connectors see Pages 70-71

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

Flexible WC Connectors see Pages 68-69

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

Air Admittance Valves (Ventapipe) see Section 6

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

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