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Product Catalogue

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Plumbing Products

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Complete Range of Plumbing Products

Complete Range of Plumbing Products



LATEST Innovative Products

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90mm x 25mm Water Seal Shower Trap	24
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Introduction

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

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

As market leader, M^cAlpine 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.

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

Quality Control

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

Technical Information

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

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

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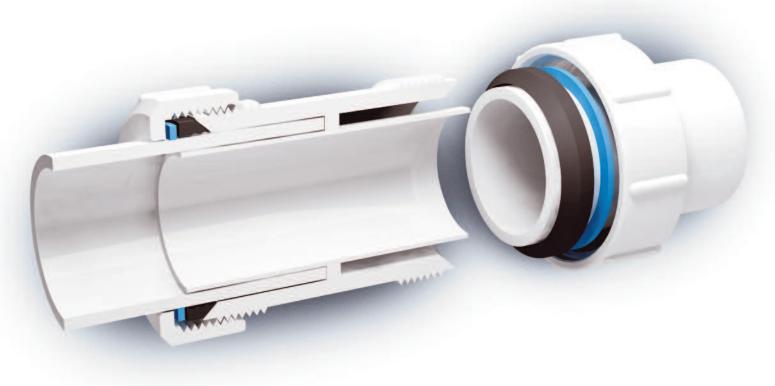
The company operates a policy of progressive improvements and reserves the right to alter the specification of any product without notice.





McAlpine Multifit

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



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

ACALPINE Plumbing Products

Plastic Traps Condensate Products

SECTION

1



Plastic Traps and Condensate Products

Anti-Syphon Traps (Silentraps)

General

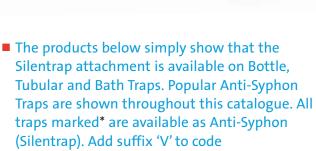
- By drawing air through the valve, the Silentrap neutralises syphonic pressure before it reaches the seal of the trap and therefore provides the equivalent of a ventilated system without the installation of costly and unsightly ventilation pipes
- The Silentrap has been most rigorously tested and will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

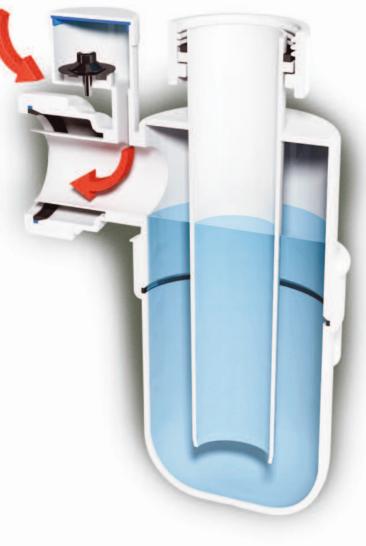
Operation

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

Advantages

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







■ 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

Resealing Bottle Traps

General

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

Operation

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

Advantages

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



11/4"	1½"
Code	Code

Standard

A10R	C10R



Adjustable Inlet

A10AR	C10AR



Resealing Shower Trap

Code	STW4-RB

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



Adjustable Inlet Chrome Plated

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

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



Bottle Traps with 75mm Water Seal



11/4"	11/2"
Code	Code

Standard

A10 **C10**



1½"	1 ¹ / ₂ "
Code	Code

Adjustable Inlet

AA10



Anti-Syphon (Silentrap)

A10V C10V



Adjustable Inlet Basin Trap with centre pin waste

AA10W



Resealing

A₁₀R **C10R**



50mm Water Seal

E10



Adjustable Inlet

A₁₀A **C10A**



38mm Water Seal

G10



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

S₁M T₁M



Anti-Syphon (Silentrap) Adjustable Inlet

C10AV A10AV



Resealing **Adjustable Inlet**

A10AR C10AR

Bottle Traps with 75mm Water Sea



Chrome Plated Bottle Traps



11/4"	11/2"
Code	Code

Resealing Trap
Adjustable Inlet

A10AR-CP C10AR-CP



Adjustable Inlet

CAA10 -



Anti-Syphon (Silentrap) incorporating a Silicone Valve

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



11/4"	1½"
Code	Code

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

A10AV-SV C10AV-SV



Chrome Plated Basin Traps, Pipe and Wall Flange

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



11/4" x 50mm Water Seal Brass Adjustable
Inlet Cylindrical Bottle Trap with 12" length of
32mm OD CP brass waste pipe and wall flange

11/4" x 75mm Water Seal Brass Adjustable
Inlet Cylindrical Bottle Trap with 16" length of
32mm OD CP brass waste pipe and wall flange

Code CA32MINI-CB Code CA32UK-CB



11/4" 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

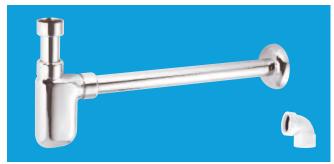


11/4" x 75mm Water Seal Plastic Adjustable
Inlet Bottle Trap with 16" length of 32mm OD
CP brass waste pipe and wall flange

Code TA32VUK-CB Code A32UK-CP



11/4" x 50mm Water Seal Brass Adjustable Inlet Square Bottle Trap with 12" length of 32mm OD CP brass waste pipe and wall flange



11/4" x 75mm Water Seal Brass Adjustable
Inlet Bottle Trap with 16" length of 32mm OD
CP brass waste pipe and wall flange

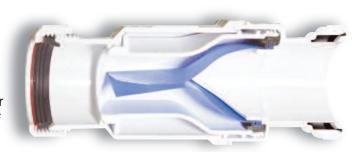
Code CA32SQUK-CB

Code A32UK-CB

■ Can be fitted in horizontal or vertical position

MacValve Self-Closing Waste Valve

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





MacValve 1 $\frac{1}{4}$ " BSP female inlet nut x 1 $\frac{1}{4}$ " universal compression outlet

Code MACVALVE-1

MacValve $1\frac{1}{2}$ " BSP female inlet nut x $1\frac{1}{2}$ " universal compression outlet

Code MACVALVE-2



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



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

MacValve 1¹/₄" BSP female inlet nut x 1¹/₄" universal compression outlet including Tundish adaptor 1¹/₄" BSP male thread x 22mm universal inlet

Code MACVALVE-3

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

Code



90° Bend $1\frac{1}{4}$ " female inlet nut x $1\frac{1}{4}$ " BSP male connector

S4U*

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

T4U*



Straight Connector 1¹/₄" BSP male thread x 1¹/₄" universal compression connection **S31U***

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



1½" Space Saver MacValve Inlet

SSINLET1

1¹/₄" Space Saver MacValve Inlet

SSINLET2

* S4U, T4U, S31U AND T31U FITTINGS ONLY SUITABLE FOR USE WITH MACVALVE

Wash Hand Basin Space Saver with Self-Closing Waste Valve

- Designed to allow full use of storage space below the basin within the cabinet or furniture
- The internal membrane opens under water pressure to allow discharge to flow freely and then closes to form a seal to prevent foul odour or sewer gas entering the building
- The valve allows air to be drawn into the discharge waste pipe when negative pressures occur and eliminates the need for secondary ventilation to the discharge pipework. This allows for greater flexibility in the plumbing design
- The valve can be easily cleaned without having to disassemble the discharge pipework. Simply remove the split pin at the front of the valve, take out the plug and membrane and clean in hot soapy water. Reassemble and relocate the split pin in the slot provided
- The WHB self-cleaning waste valve having no water seal can never dry out through evaporation or lack of use of the basin as the membrane seal remains closed
- Overall height 62mm
- Do not pour drain cleaner down this product





1¹/₄" BSP female inlet nut x 1¹/₄" universal compression outlet

Code WHB-1

Tubular Traps with 75mm Water Seal



1½" 1½" 2" Code Code Code

Swivel 'P'

SA10 SC10 SE10



1¹/₄" 1¹/₂" 2" Code Code Code

Adjustable Inlet

ASA10 ASC10 ASE10



Anti-Syphon (Silentrap)

SA10V SC10V SE10V



Adjustable Inlet
Anti-Syphon (Silentrap)

ASA10V ASC10V ASE10V

Tubular Traps with 75mm Water Seal





1½" 1½" 2" Code Code Code

Adjustable Inlet Basin Trap with centre pin waste

ASA10W* - -



Low Inlet

BT3* - -



50mm Water Seal

BT4 - -



Adjustable Inlet with connection for 19/23mm pipe

ASA10-SP* ASC10-SP*



Swivel 'S'

SB10 SD10 SF10



All One

SP10 TP10 ZP10



All One Anti-Syphon (Silentrap)

SP10V TP10V -



Running 'P'

SR10* TR10* SG10*



Running 'S'

SS10 TS10 SH10



1½" 1½" 2"
Code Code Code

Running suitable for most
waste disposal units

- TT10* -



Running with 20mm water seal

- TRSH10 -



Adjustable Inlet with 19mm water seal

BT1 BT2 -



11/4"
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



Straight Through with one cleaning eye

11/4" Inlet x 11/4" outlet **X10**

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

11/4" Inlet x 11/4" outlet **X10V**

Straight Through with two cleaning eyes

 $\frac{1\frac{1}{4}}{1\frac{1}{4}}$ Inlet x $\frac{1\frac{1}{4}}{1}$ outlet X10A $\frac{1\frac{1}{4}}{1}$ Inlet x $\frac{1\frac{1}{2}}{1}$ outlet Y10

MacValve Self-Closing Waste Valve

Domestic Appliance Traps 1½" x 75mm Water Seal

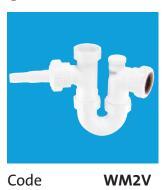
General

- 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)









With Adjustable Inlet









Standpipe Trap and Fittings



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

Code V33WM

Standpipe Cap with retaining clip

Code WM3-CAP

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

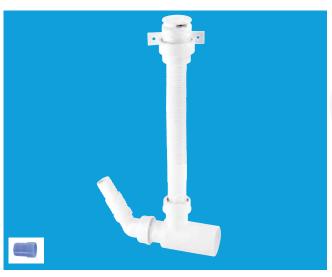


Standpipe Trap

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
- TV1 can be used with domestic appliance trap WM4
- All domestic appliance traps must be fitted in accordance with the fixing instruction leaflet included with each trap





Code TV1 Code

Code WM4*

Accessories



Straight Nozzle for connection to 1½" Multifit

Code WMF3



90° Nozzle for connection to 1½" Multifit

Code WMF4



135° Nozzle for connection to 1" BSP thread

Code MA15



Blanking Plug for traps and fittings

Code **228532**



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

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



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

1½" x 1½" x ¾" Code **V33S**

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

Space Saver and Standard Plumbing Kits for Sinks. Plumbing

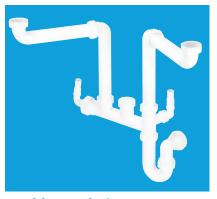
General

- 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 $1\frac{1}{2}$ " inlet connections and the provision for the discharge hose(s) of domestic appliance(s). Also supplied with a $1\frac{1}{2}$ " x 75mm water seal tubular swivel 'P' trap
- Each kit is boxed individually and supplied with an illustrative drawing



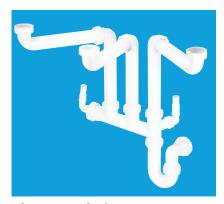
Single Bowl Kit

Code SSK1



Double Bowl Kit

Code SSK2



Three Bowl Kit

Code SSK3



11/4"/11/2" Plumbing Kit for adjustable height basin or sink

(supplied with T16 $1\frac{1}{2}$ "/ $1\frac{1}{4}$ " trap inlet reducer)



1½" Space Saver Trap Inlet

Code **SSINLET1**

1¹/₄" Space Saver Trap Inlet

Code **SSINLET2**

Code FLEXKIT1

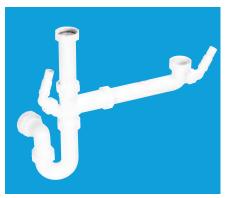
General

- 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 $1\frac{1}{2}$ " inlet connections and the provision for the discharge hose(s) of domestic appliance(s). Also supplied with a $1\frac{1}{2}$ " x 75mm water seal tubular swivel 'P' trap
- Each kit is supplied in a polythene bag complete with an illustrative drawing



Bowl and a Half Kit

Code SK1



Bowl and a Half Kit

Code SK1A



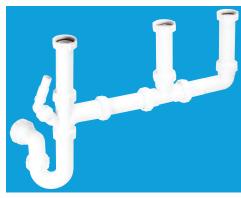
Double Bowl Kit

Code SK2



Double Bowl Kit

Code SK2A



Three Bowl Kit

Code SK3



Blanking Plug(s) included with all plumbing kits

Code **228532**



Condensate Products for Connecting Condensate Discharge

Basin and Sink Traps



11/4" x 75mm Water Seal Tubular Swivel Basin Trap with adjustable inlet and connection for 19/23mm pipe. Supplied with blanking cap

Code **ASA10-SP***



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

Code **ASC10-SP***



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

Code **ASC10-CO***



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

Code **OBT1-CO**

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

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



200mm Flexible Connector

Code **CONFLEX-200**

300mm Flexible Connector

Code **CONFLEX-300**

Flexible Condensate Pipe Kit

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



Flexible Condensate Pipe Kit - contents

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

16

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

Code

CONFLEX-KIT1

Condensate Product:

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



110mm x 300mm x 11/4" /11/2"
Pipe top and side Inlet
Connections to receive
discharge from a condensing
boiler. 19/23mm x 11/4" fitting
provided to increase size of
discharge pipe before it
passes through the external
wall

Code	SOAK1GR
Couc	JOAKIGK

Mechanical Soil Pipe Boss Connectors



Mechanical Soil Pipe Boss
Connector 57mm hole saw
size. Supplied with fixing tool
4"/110mm x 1½" pipe
Code BOSSCONN110-BL
4"/110mm x 1½" pipe
Code BOSSCONN110T-BL
4"/110mm x 1½" pipe
Code BOSSCONN110-GR
4"/110mm x 1½" pipe
Code BOSSCONN110-GR

Auxiliary Fittings



Pipe Clamp to suit 11/4"/11/2"
Pipe to BS EN 1451-1:2000/
BS EN 1329-1:2000 with
universal compression
connection for 19/23mm
rigid pipe

Code (Grey)	CLAMP1GR
Code (White)	CLAMP1WH



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

M	١X	-CC)
	.N	.MX	.MX-CC



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

Code COI	V	V	⁄Α	Ľ	V١	Ε
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Straight Connector with universal compression connections for 19/23mm rigid pipe and 25mm flexible pipe

|--|



50mm Tundish with 19/23mm pipe outlet

c 1	
Code	TUN-2



Two-Piece Cast Iron Soil Pipe Boss Connector to suit 22mm drill size. Supplied with fixing tool 4"/100mm x 11/4" pipe Code **BOSS110CAST-BL** 4"/100mm x 1½" pipe **BOSS110TCAST-BL** Code 3½"/90mm x 1¼" pipe Code **BOSS90CAST-BL** 3½"/90mm x 1½" pipe Code **BOSS90TCAST-BL** 3"/82mm x 11/4" pipe Code **BOSS82CAST-BL** $3"/82mm \times 1\frac{1}{2}"$ pipe Code **BOSS82TCAST-BL**



Mechanical Soil and Rainwater Pipe Boss Connector for 11/4" pipe

Code	BOSSCONN1.25BL
Code	BOSSCONN1.25GR



Reducer in ABS 1¹/₄" plain tail x 19/23mm universal compression connection

Code	R16-BL
Code	R16-GR



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

For full range of Boss Connectors see page 63

18

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

Bath Traps without Overflows



11/2" x 75mm Water Seal

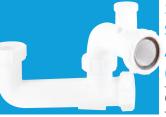
Code	L10



11/2" x 75mm Water Seal Anti-Syphon (Silentrap)



11/2" x 60mm Water Seal (Extended Body)



11/2" x 60mm Water **Seal (Extended Body) Anti-Syphon** (Silentrap)

Code SM10EV



11/2" x 50mm Water Seal

C I .	
Code	SM10



11/2" x 50mm Water Seal Anti-Syphon (Silentrap)

Code SM₁₀V



11/2" x 50mm Water Seal

Code S	MP10
--------	------



11/2" x 50mm Water **Seal Anti-Syphon** (Silentrap)

Code SMP10V

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



11/4" x 19mm Water Seal

Code	P10
1½" x 19mm Water Seal	
Code	Q10

Bath Trap with Top Access

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



Code

HC2650UK

19

Bath Traps with Overflows



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



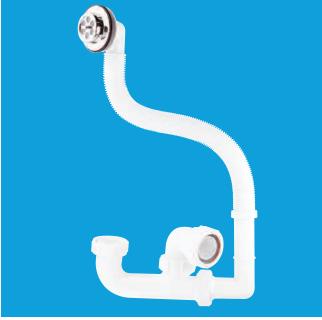
1½" x 75mm Water Seal with flexible overflow tube and CP overflow grating and 70mm flange centre pin waste outlet fitting

Code FJ10*

Code FJ10WC*



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



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

Code FSK10E*

Code FSK10*

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

Bath Fillers with Trap and Overflow

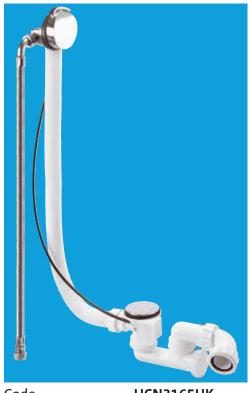
General

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







Code HCN3165UK
Code HCN3165UK-1M

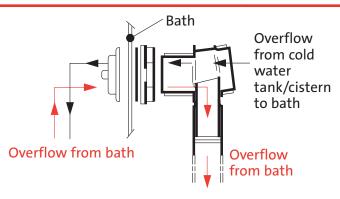




Code	HC2650UK-FIL
Code	HC2650UK-FIL-1M



21



General

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

- back along the overflow pipe thereby reducing the risk of flooding
- Wasteflow is also available with connection for condensate

Advantages

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

Installation

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



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

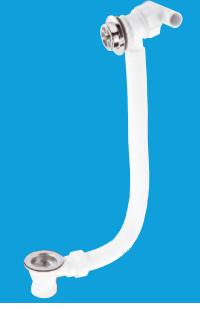
With L10 Trap PUWF3-CP*



Wasteflow with trap

With FJ10 Trap FJWF1*

Bath Waste Outlet Fittings see page 95



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

Code WF21

■ Wasteflow Manifolds have a 1½" BSP male thread on the inlet and will normally require an additional

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



3/4" In-Line Non-Return Valve

Code R14



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

Code R15

■ See page 71 for WC Overflow Kits with Tundish

Chrome Plated Brass Bath Traps with Combined Waste and Overflow



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

Code BRASSTRAP-50-CP

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

Code BRASSTRAP-25-CP

Trap only

1 $\frac{1}{2}$ " x 50mm Water Seal CP Brass Trap x 1 $\frac{1}{2}$ " universal compression outlet

Code BATHTRAP50-CPB

1 $\frac{1}{2}$ " x 25mm Water Seal CP Brass Trap x 1 $\frac{1}{2}$ " universal compression outlet

Code BATHTRAP25-CPB

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

110mm x 50mm Water Seal Pushfit Traps

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



Code WCTRAP4P

Code WCTRAP4S

Urinal Bowl Syphonic Traps

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



Syphonic 'P' Trap

Code **HCUP50UK**



Syphonic 'S' Trap

Code **HCUS50UK**

Condensation Trap

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



110mm pipe

Code **CONTRAP1**

125mm pipe

Code CONTRAP2

90mm Shower Traps with 50mm Water Seal

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







CP Plastic Flange

CP Brass Flange

CP Brass Flange



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

ST90CP10-53

ST90CB10-53

ST90CPB-P-53



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

ST90CP10-70

ST90CB10-70

ST90CPB-P-70



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

ST90CP10-HP2

ST90CB10-HP2

ST90CPB-P-HP2



90mm x 50mm Water Seal with 2" Universal Compression Outlet High-flow high-performance trap. Overall height 90mm

ST90CP10-HP

ST90CB10-HP

ST90CPB-P-HP



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

ST90CP10-V

ST90CB10-V

ST90CPB-P-V

facilitate easy cleaning





CP Brass Flange

White Plastic Flange

Flow Rates

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



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

ST90CPB-S-53

ST90CPB-S-70

ST90WH10-70

ST90CPB-S-HP2

ST90WH10-HP2

ST90CPB-S-HP*

ST90WH10-HP*

ST90CPB-S-V

ST90WH10-V

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

1½" Shower Traps with Top Access

Traps with Standard Waste and Flange

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







70mm White Plastic Flange

85mm White Plastic Flange

STW5-R

70mm CP Plastic Flange



19mm Water Seal Trap with 1½" Universal Compression Outlet
Overall height 95mm

STW1-R

STW3-R



20mm Water Seal Trap with 1½" Solvent Weld Outlet Socket
Overall height 65mm

- STW4-65



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

STW2-95 STW6-95 STW4-95



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

STW2-R STW6-R STW4-R



80mm Water Seal Resealing Trap with 1½" **Multifit Outlet** Overall height 154mm

- - STW10-R



1½" Shower Traps with Top Access

Traps with Waste and Mushroom Flange

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



70mm White Plastic Mushroom Plastic Mushroom Flange



85mm White Flange



70mm CP Stainless Steel Mushroom Flange Mushroom Flange



85mm CP Stainless Steel



19mm Water Seal Trap with 11/2" Universal Compression Outlet Overall height 95mm

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



50mm Water Seal Trap with 11/2" Multifit Outlet

Overall height 95mm

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



50mm Water Seal Resealing Trap with 11/2" Multifit Outlet Overall height 118mm

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

Flow Rates

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



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

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

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 socket. Overall height 50mm

Code ST70SS85

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

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



White Plastic

STW70WH
STW85WH



CP Plastic

STW70CP
STW85CP



CP Brass

 STW70CPB	
STW85CPB	



GP Plastic

STW70GP
STW85GP

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



White Plastic

STW70WHL
STW85WHL



CP Plastic

STW70CPL
STW85CPL

Grid only



White Plastic

STWGR-WH



CP Plastic

STWGR-CP

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



White Plastic

STW70LN STW85LN

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



White Plastic

STW70LNL STW85LNL





White Plastic

STW70WHM STW85WHM



CP Stainless Steel

STW70SSM
STW85SSM

Trap Washers, Bath and Shower Trap Accessories



1 ½"	11/2"	2"
Code	Code	Code

Trap Inlet

RW1 RW₂ RW3



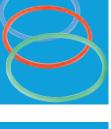
Multifit Rubber Olive

RWM1 RWM2 RWM3



Multifit Plastic Friction Washer

PWM1	PWM2	PWM3
Blue	Red	Green



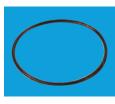
Rubber Washer

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



Rubber Seal to suit ST90 dip tube

P-RW-STW90



Rubber 'O' Ring Seal to suit STW dip tube

P-OR-SHOWERTRP



Dip Tube to suit STW trap

19mm water seal

STW19-TUBE

50mm water seal

STW50-TUBE

80mm water seal

STW80-TUBE



110mm CP Plastic Flange

to suit ST90CP10-70, ST90CB10-70 and ST90WH10-70 traps

ST90MECPTOP+SUPP



HC2650UK Extension Kit will

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

HC2650-EXT-KIT



Shower and Floor Gullies Channel Drain and Tile Drain

SECTION



General Information

Shower and Floor Gullies

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

Channel Drain for Tiled Floors

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

Tile Drain for Wet Floor Areas

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



Sheet Flooring

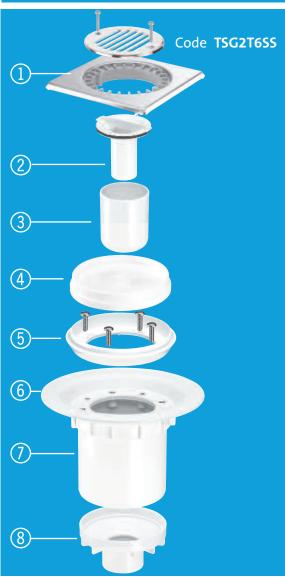
- 1 Choice of cover plates with or without securing screws
- Cover plate and dip tube assembly. Choice of cover plate finishes available
- 3 Removable sediment cup
- 4 Temporary cover plate. For use during installation as a plug for preliminary air test. Will protect gully from damage by foot traffic 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
- 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
- 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
- Gully body with 110mm vertical outlet
- 8 110mm x 2" BS EN 1329-1:2000 solvent weld reducer
- The two products shown illustrate the versatility of the McAlpine range of Trapped Shower Gullies.

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





Gullies for use with Sheet Flooring

Trapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

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





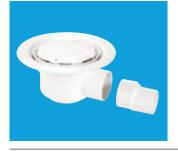


75mm Water Seal Trap with 2" BS EN 1329-1:2000 solvent weld horizontal outlet and 2" x $1\frac{1}{2}$ " socket reducer. Overall height 130mm



With securing screws	TSG1-WH	TSG1SS	TSG1SS-SL-SC
Without securing screws	TSG1WH-NSC	-	TSG1SS-SL-NSC

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



With securing screws	TSG50WH	TSG50SS	TSG50SS-SL-SC
Without securing screws	TSG50WH-NSC	-	TSG50SS-SL-NSC

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



With securing screws	TSG52WH	TSG52SS	TSG52SS-SL-SC
Without securing screws	TSG52WH-NSC	-	TSG52SS-SL-NSC

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



With securing screws	TSG2WH	TSG2SS	TSG2SS-SL-SC
Without securing screws	TSG2WH-NSC	-	TSG2SS-SL-NSC

Trapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

White Plastic Clamp Ring and Cover Plate

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







50mm Water Seal Trap with $1\frac{1}{2}$ " BS EN 1329-1:2000 solvent weld side inlet for the discharge from a wash hand basin with a 110mm vertical outlet to fit 110mm pipe socket or vertical $1\frac{1}{2}$ " solvent weld pipework. Overall height 130mm



With securing screws	TSG3-WH	TSG3SS	TSG3SS-SL-SC
Without securing screws	-	-	TSG3SS-SL-NSC

Gullies show white cover plates for illustrative purposes only

Untrapped Gullies

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



With securing screws

USG1WH

USG1SS

USG1SS-SL-SC

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



With securing screws

USG2WH

USG2SS

USG2SS-SL-SC

Untrapped Gully with $1\frac{1}{2}$ " BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 70.5mm



With securing screws

USG3WH

USG3SS

USG3SS-SL-SC

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Gullies for use with Tiled or Stone Floors where a Waterproofing

Trapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

150mm Square
Polished
Stainless Steel
Tile with
removable Grid

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







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



With securing screws	TSG1T6SS	-	-
Without securing screws	TSG1-T150SS	TSG1T6WH	TSG1-R125SS

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



With securing screws	TSG50T6SS	-	-
Without securing screws	TSG50-T150SS	TSG50T6WH	TSG50-R125SS

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



With securing screws	TSG52T6SS	-	-
Without securing screws	TSG52-T150SS	TSG52T6WH	TSG52-R125SS

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

\\/i+b



securing screws	TSG2T6SS	-	-
Without securing screws	TSG2-T150SS	TSG2T6WH	TSG2-R125SS

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

Gullies for use with Tiled or Stone Floors

Untrapped Gullies

Choose the appropriate gully body and cover plate finish required

Gullies without securing screws allow for easier access

Do not pour drain cleaner down these products

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

125mm
Diameter Polished
Stainless Steel
Grating with
removable Grid







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



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

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



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

Untrapped Gully with $1\frac{1}{2}$ " BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 70.5mm



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

Two-Piece Gully and Gully with Non-Return Valve

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



Gullies with Non-Return Valve for use where floor depth is restricted SECTION 2

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



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

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



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

Code

See page 52 for gully flow rates

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



Two-Piece Gully, 150mm Square Polished Stainless Steel Tile with removable Grid and Securing Screws

 $1\frac{1}{2}$ " BS EN 1329-1:2000 solvent weld horizontal outlet. Overall height 85mm

Code VSG52T6SS

Gullies with Anti-Ligature Grating for use with Sheet Flooring

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



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

Code TSG1-ANTI/LIG



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

Code TSG50-ANTI/LIG



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

Overall height 100mm

Code TSG52-ANTI/LIG



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

Overall height 130mm

Code TSG2-ANTI/LIG

Top Access Shower Traps for use with Sheet Flooring, Tiled or Stone Floors SECTION 2



For Sheet Flooring

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

Overall height 138mm

Code TSG1WH-STW1R



For Sheet Flooring

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

Code TSG1WHSTW295



For Sheet Flooring

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

Code TSG1WH-STW2R



For Tiled or Stone Floors

19mm Water Seal Trap with $1^{1}/_{2}$ " universal compression outlet, 150mm square polished stainless steel tile with removable grid and securing screws.

Overall height 138mm

Code TSG1T6SS+STW1-R



For Tiled or Stone Floors

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

Overall height 138mm

Code TSG1T6SSSTW295



For Tiled or Stone Floors

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

Overall height 167mm

Code TSG1T6SS-STW2R

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

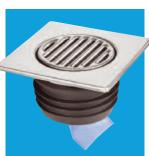


125mm Diameter Polished Stainless Steel Grating with removable grid. Grating has a removable ABS spigot adaptor for solvent welding to clamp ring leaving a rubber gasket to fit inside **110mm** pipe. Suitable for stone shower bases

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



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

Code

FGT150-SV-110



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

Code **FGT150-SV-110S**



Gullies suitable for Concrete Ground Floors where a Waterproofing Membrane is not required SECTION 2

Trapped Gully Bodies



Multi-Drain - 60mm Water Seal Universal Trapped Floor Gully manufactured in grey ABS with 2"/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 1½" ABS/PVC pipe, internal fit or 2" ABS/PVC pipe, external fit. Overall height 152mm

For Tiles and Gratings see page 42

Code MD100



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

For Tiles and Gratings see page 42

Code **MD100-3**

Adaptors for Inlet and Outlet Connections



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

Code MD200



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

Code MD400

Untrapped Gullies with Top Access for Tiled Floors



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

Overall height 68mm

Code FD90-T6SS



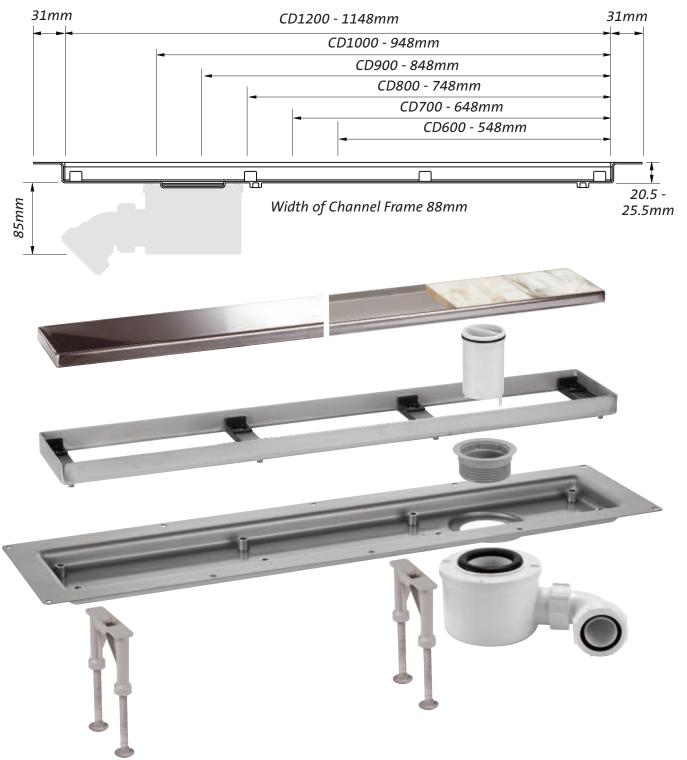
Untrapped Gully with $1^{1}/_{2}$ " BS EN 1329-1:2000 solvent weld horizontal outlet and 150mm square white ABS tile with removable grid. Overall height 68mm

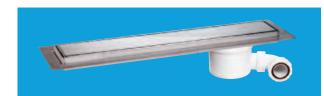
Code FD90-T6WH

Channel Drain for Tiled Floors

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

Standard Channel Drain for Tiled Floors





Standard Channel Drain with brushed finish cover plate

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



Standard Channel Drain with grid (brushed finish)

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



Standard Channel Drain with polished finish cover plate

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

Cover plates available separately on request

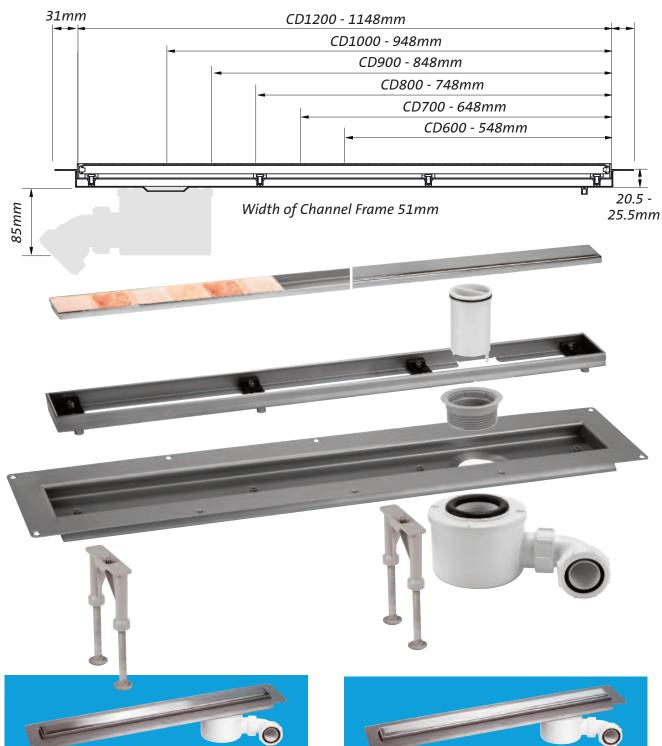


Scan here to view our Installation video or visit our website www.mcalpineplumbing.com



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Slimline Channel Drain for Tiled Floors



Slimline Channel Drain with brushed finish cover plate

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

Cover plates available separately on request



Slimline Channel Drain with polished finish cover plate

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

Do not pour drain cleaner down these products

ile Drain for Wet Floor Areas

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



Code TILE-PLAIN-B

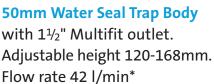


Code TILE-PLAIN-P



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

Code	ST90-70B



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

Installation Guidelines

General Notes and Guidance for Shower Gullies

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

Sheet Flooring

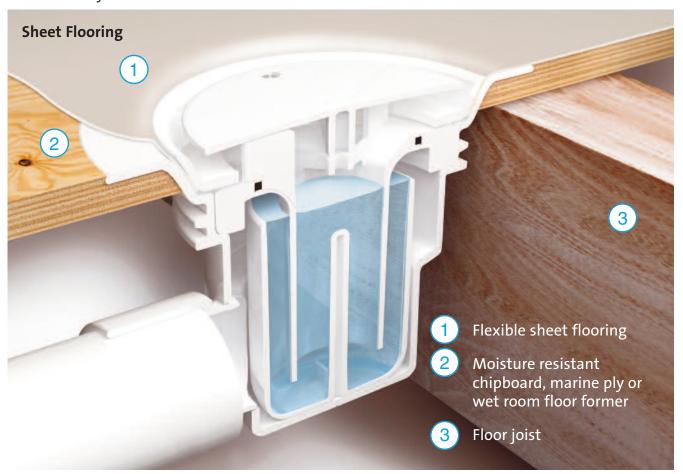
- Set the gully into the floor and ensure that the top surface of the gully flange is flush with, or slightly below, the floor surface on which the flooring is to be laid
- Ensure the gully body is fully supported, do not rely solely on the gully flange for support
- A watertight seal between the underside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

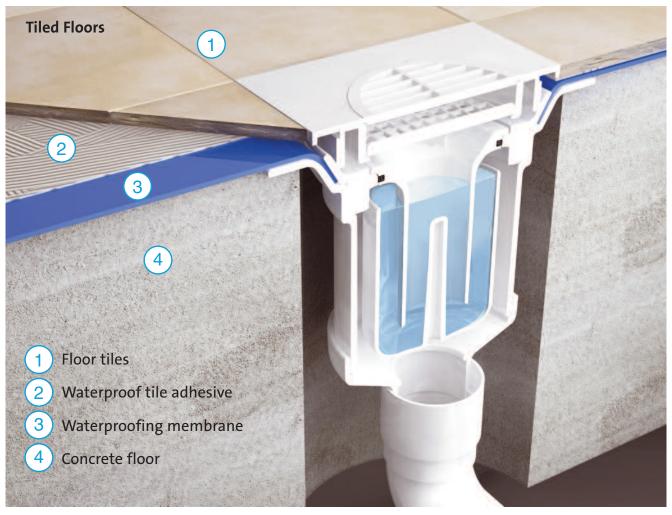
Tiled Floors

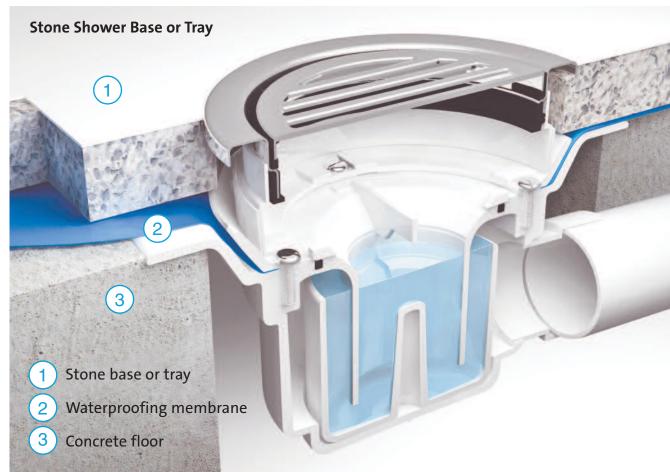
- The minimum dimension between the gully flange and top surface of the gully tile or grating, which requires to be flush with the flooring, is 13mm. This dimension cannot be reduced but if required the gully tile or grating can be raised. To do this remove the centre from the dust cap/extension ring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

Stone Shower Bases and Trays

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







Conversion Cover Plate with 1½" Universal Pipe Boss



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

Code CPTSG

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



Converts any TSG1 or TSG2 Gully from tiled to a sheet flooring gully with dip tube, CP brass clamp ring, CP stainless steel grated cover plate without securing screws Code FGTR118TOP



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





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

Code TSGCONTV



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

Code TSGCONTVSS



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

Code TSGCONV



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

Code TSGCONVSS



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

Code FGTOP6SS

Stopper for TSG Dip Tubes



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

Code TSGSTOP

Filter Mesh



Filter Mesh to suit USG1 range of untrapped gullies

Code

MESH-1

Stability Leg



Optional Stability Leg to suit USG1 range of untrapped gullies

Code

USGLEG1

Gully Flow Rates

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

Code	Flow Rate Litres per minute	Code	Flow Rate Litres per minute	Code	Flow Rate Litres per minute
TSG1-ANTI/LIG	31	TSG3SS-SL-NSC	>70	USG1SS-SL-SC	10
TSG1-R125SS	56.9	TSG3SS-SL-SC	>70	USG1-T150SS	10
TSG1SS	50	TSG3-T150SS	>70	USG1T6SS	10
TSG1SS-SL-NSC	53.6	TSG3T6SS	>70	USG1WH	10
TSG1SS-SL-SC	53.6	TSG3T6WH	>70	USG1WH-NSC	10
TSG1-T150SS	55	TSG3WH	65.1	USG2SS	68
TSG1T6SS	55	TSG50-ANTI/LIG	44	USG2SS-SL-NSC	68
TSG1T6SS+STW1R	35	TSG50-R125SS	54.3	USG2SS-SL-SC	68
TSG1T6SSSTW295	32	TSG50SS	48	USG2-T150SS	68
TSG1T6SS-STW2R	37	TSG50SS-SL-NSC	50.3	USG2T6SS	68
TSG1T6WH	55	TSG50SS-SL-SC	50.3	USG2WH	68
TSG1-WH	53	TSG50-T150SS	53.6	USG3SS	65
TSG1WH-NSC	53	TSG50T6SS	52.6	USG3SS-SL-NSC	65
TSG1WH-STW1R	35	TSG50T6WH	52.5	USG3SS-SL-SC	65
TSG1WHSTW295	32	TSG50WH	50.5	USG3-T150SS	65
TSG1WH-STW2R	37	TSG50WH-NSC	51	USG3T6SS	65
TSG2-ANTI/LIG	>70	TSG52-ANTI/LIG	44	USG3WH	65
TSG2-R125SS	>70	TSG52-R125SS	54.3	VSG1T6SS	30
TSG2SS	>70	TSG52SS	48	VSG1T6WH	30
TSG2SS-SL-NSC	>70	TSG52SS-SL-NSC	50.3	VSG1WH	30
TSG2SS-SL-SC	>70	TSG52SS-SL-SC	50.3	VSG1WH-NSC	30
TSG2-T150SS	>70	TSG52-T150SS	53.6	VSG52T6SS	36
TSG2T6SS	>70	TSG52T6SS	52.5	VSG52T6WH	36
TSG2T6WH	>70	TSG52T6WH	52.5	VSG52WH	36
TSG2WH	>70	TSG52WH	50.5	VSG52WH-NSC	36
TSG2WH-NSC	>70	TSG52WH-NSC	51		
TCC2 D12FCC	>70	LICC1CC	10		

TSG3-R125SS

TSG3SS

>70

64.5

USG1SS

USG1SS-SL-NSC

10

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



SECTION

3



and Drain Connectors Plastic Waste Pipe, Fittings

Multifit Waste Fittings



11/4"	1 ¹ / ₂ "	2"
Code	Code	Code

90° Bend





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 x32mm 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



Reducing Connector 11/2" x 11/4"

- ST28M -



Code Code Code

Straight Connector Multifit v

1½"

2"

Straight Connector Multifit x European pipe size

 x 32mm
 x 40mm
 x 50mm

 S28L-ISO
 T28L-ISO
 Z28L-ISO

 x 40mm

 ST28L-ISO



11/4"

MS18E MT18E MZ18E

Straight Connector Multifit x

plain end*

MS18L MT18L -



Swept Tee

V8M V1M V15M



1½" Equal Slip Tee with universal compression connections

- V1MX -

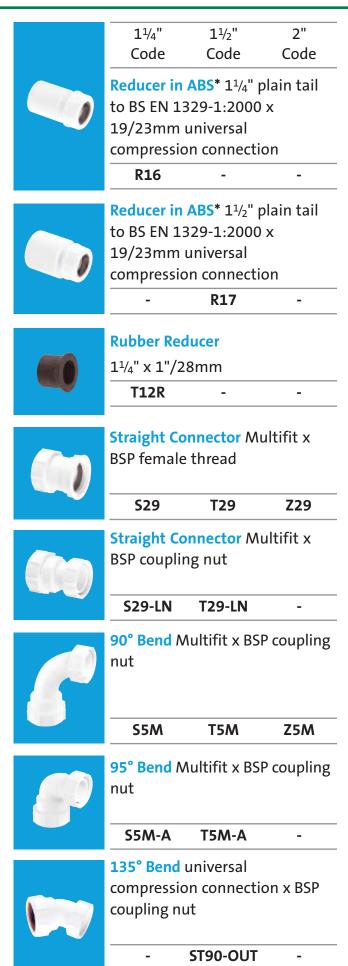


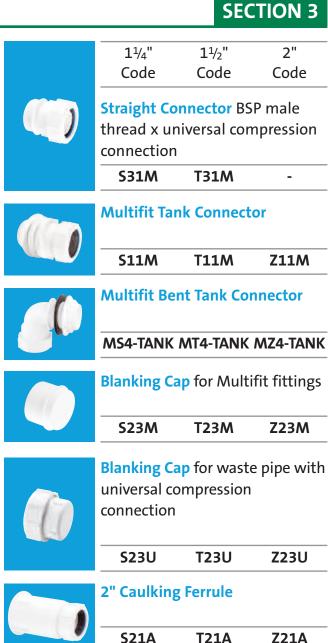
Reducer for Fittings*

 $1\frac{1}{2}$ " x $1\frac{1}{4}$ " T12M - 2" x $1\frac{1}{4}$ " - ZS26L 2" x $1\frac{1}{2}$ " - 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 compression connection







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

· T28M-FIL -



Loose Nut

S8M T8M Z8M



Straight Connector pushfit to solvent weld

S18-ABS T18-ABS

Flexible Waste Fittings and Non-Return Valves

Flexible Connector offers maximum flexibility when conventional fittings cannot be used

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



FLEXCON1	FLEXCON2	-
Code	Code	Code

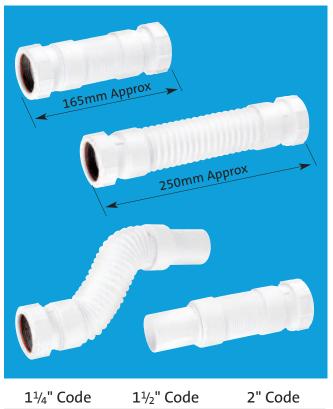
Flexible Connector offers maximum flexibility when conventional fittings cannot be used

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



Flexible Fittings

 These fittings offer complete flexibility for any required angle or offset

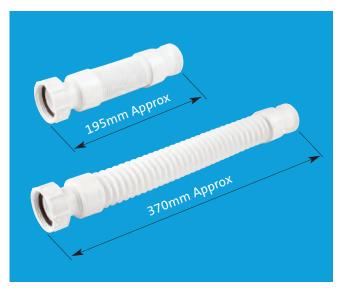


Universal Compression Connection x Universal Compression Connection

FLEXCON3 FLEXCON4 FLEXCON7

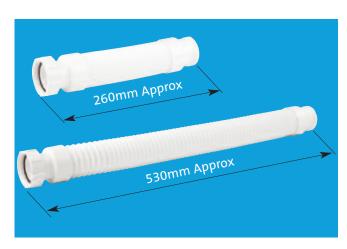
Universal Compression Connection x PVC Plain Spigot suitable for solvent welding to pipe BS EN 1329-1:2000

FLEXCON5 FLEXCON6 FLEXCON8



11/4" BSP coupling nut x 11/4" BSP male thread

Code FLEX-JKS



1½" BSP coupling nut x 1½" BSP male thread

Code FLEXCON9

Non-Return Valves



1½" 1½" 2" Code Code Code

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

S28M-NRV T28M-NRV



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

- - Z28M-NRV



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

- - Z28M-NRVS

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



Sundry Fittings

Sundry Fittings



1 ¹ / ₄ "	11/2"	2"
Code	Code	Code

90° Bend with BSP male thread x BSP coupling nut

Z1 S1 T1



BSP Nut ordinary			
S8A	T8A	Z8A	
BSP Nut compression			
S8B	TAB	78B	



Compression Ring for Imperial

Copper S13-ISON T13-ISON



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

S25 T25



Trap Inlet Reducer

11/4" x 1"

S16 1½" x 1¼" **T16**



Blank Cap with nut for BSP threads

> **S23 T23 Z23**



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

S22L T22L

BSP Female x BSP Male Couplings



1" length	ng S12A-1	T12A-1
DCD Counti	Code	Code
	1 ¹ / ₄ "	1½"

2" length S12A-2 T12A-2 3" length S12A-3 T12A-3



BSP Coupling flush spigot European to UK waste adaptor

> **T12A-F S12A-F**

BSP Female x BSP Male Couplings

1½" x 1¼"



	1 ¹ / ₄ "	$1 \frac{1}{2}$
	Code	Code
BSP Coupli	ng	
1½" x 1"	S12C	-
1" x ³ / ₄ "	S12D	-



BSP Coupling waste outlet reducer

	-	
,		

BSP Coupling			
1 ³ / ₄ " x 1 ¹ / ₂ "	-	T12B	
2" x 1½"	-	T12C	
2" x 11/4"	-	T12D	
1½" x 1"	-	T12H	

T12



BSP Coupling		
1½" x 2"	-	T12E
1½" x 1¾"	-	T12F



3/4" Female Blank Cap for blanking off appliance valves with 3/4" male thread

Code **NUT-WMVALVE**

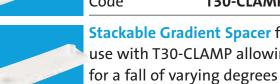


1" Female Blank Cap for traps and fittings with 1" male thread



NUT-BLANK-WH

11/2" Pipe Clip for floor mounted discharge pipe installations



Code T30-CLAMP **Stackable Gradient Spacer for** use with T30-CLAMP allowing

Code T30-SPACER





11/4"	1 ¹ / ₂ "	2"
Code	Code	Code

HDPE White Pipe 3m lengths

HD1-3M HD2-3M HD3-3M



Pipe Clip

S30 T30 Z30







Straight Connector

S18L T18L Z18L



Straight Connector Multifit x Surefit

S28L T28L Z28L



Reducing Connector 11/2" x 11/4"

- T12L -



Blank Cap without nut

S23L T23L Z23L



Reducer for Fittings

2"-1¹/₄" 1¹/₂"-1¹/₄" 2"-1¹/₂" **S26L T12S T26L**



11/4"	1½"
Code	Code

Swept Tee

V8L V1L

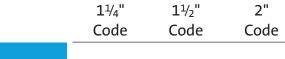


Swept Tee

1½" x 1½" x 1¼" - **V21L**



Swept Tee Surefit x 19mm pushfit branch





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

S18M T18M Z18M



Wall Flange for HDPE pipe

S17 T17 -

- *BS 5254 size if connecting to boss size BS 5255 add 5255 to code e.g. S18M 5255
- Surefit waste fittings only suitable for M^CAlpine HDPE waste pipe

60

Chrome Plated Brass Waste Pipe and Fittings

		European pipe size	1¼" UK pipe size	1½" UK pipe size
		1m length of CP Brass	• •	
		PIPE32-1000-CB	PIPE35-1000-CB	PIPE42-1000-CB
		CP Pipe Clip		
		S32-CP	S35-CP	
		90° Compression Bend		
)		·		
		32A-CB	35A-CB	42A-CB
	~	135° Compression Ben	d	
	\$			
		-	35B-CB	42B-CB
		Compression Tee		
4	7 2			
		-	-	42E-CB
		Blanking Cap for above	e fitting	
		-	-	40K-CB
		Compression Straight	Connector	
		226.60	256.60	42C CD
		32G-CB Wall Flange	35G-CB	42G-CB
	(0)	wan riange		
		WALLFLANGE-CP32	WALLFLANGE-CP35	WALLFLANGE-CP42
		Synthetic Rubber Seal	Reducers for above fittings R/SEAL-35X32	R/SEAL-42X32
			N/ JEAL-33A3Z	R/SEAL-42X35
		ABS Solvent Weld Adap plastic solvent weld wa	otor to convert above fittings	to BS EN 1329-1:2000
		ABSCON-32X1.25	ABSCON-35X1.25	ABSCON-42X1.5

NOTE: European sizes only



90° Bend 32/35mm compression CP brass x 11/4" ABS solvent weld

Code ABS32/35A-CB

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

Code ABS42/43A-CB



Straight Connector 32/35mm compression CP brass x 1½" ABS solvent weld

Code ABS32/35G-CB

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

Code ABS42/43G-CB

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





Elongated 90° Bend 32/35mm compression CP brass x 1¹/₄" ABS solvent weld

Code ABS32/35A-CB-L



90° Bend 32mm European pipe size ring seal pushfit x 11/4"
Multifit

Code MS4-32MM



90° Bend 32mm European pipe size ring seal pushfit x 1¹/₄" ABS solvent weld

Code MS4-32SOLVENT

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

Drain Connectors and Blanking Off Caps

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



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

Loue (black)	DCI-PL
Code (Grey)	DC1-GR

Wi	ith	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 $1\frac{1}{2}$ " universal pipe boss including blanking cap. Should only be fitted on ground floor due to a reduction in the internal outlet diameter of the boss pipe connector

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

Drain Connector 90° Bend



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

Code (Black)	DC90-BL
Code (Grey)	DC90-GR



4"/110mm Reducer Connector with sealing ring to fit to plastic waste pipe

	Code
11/4" and 11/2"	DC2-BL
2"	DC3-BL



4"/110mm Reducer
Connector with offset
sealing ring to fit to plastic
waste pipe

11/4" and 11/2"	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

T23MR

Z23MR

Code		CAP100
11/4"	11/2"	2"
Code	Code	Code
Synthetic F	Rubber Cap	for waste

S23MR

Suitable for waste water and condensate discharge

Simple dry fixing mechanical connection

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

Mechanical Soil Pipe Boss Connectors





4"/110mm x 11/4" pipe **BOSSCONN110-BL** Code 4"/110mm x 1½" pipe **BOSSCONN110T-BL** Code 4"/110mm x 2" pipe **BOSSCONN110Z-BL** Code 3"/82mm x 1¹/₄" pipe **BOSSCONN82-BL** Code 3"/82mm x 1½" pipe Code **BOSSCONN82T-BL** 3"/82mm x 2" pipe Code **BOSSCONN82Z-BL**



4"/110mm x 1¹/₄" pipe Code **BOSSCONN110-GR** 4"/110mm x 1½" pipe Code BOSSCONN110T-GR 4"/110mm x 2" pipe Code BOSSCONN110Z-GR 3"/82mm x 11/4" pipe Code **BOSSCONN82-GR** 3"/82mm x 1½" pipe **BOSSCONN82T-GR** Code 3"/82mm x 2" pipe Code **BOSSCONN82Z-GR**

Universal compression 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 11/4" pipe **BOSS110CAST-BL** Code 4"/100mm x 1½" pipe Code **BOSS110TCAST-BL**

 $3\frac{1}{4}$ "/90mm x $1\frac{1}{4}$ " pipe Code **BOSS90CAST-BL** 3½"/90mm x 1½" pipe **BOSS90TCAST-BL** Code

3"/82mm x 1¹/₄" pipe Code **BOSS82CAST-BL** 3''/82mm x $1\frac{1}{2}''$ pipe Code BOSS82TCAST-BL

Mechanical Soil and Rainwater Pipe Boss Connectors



Mechanical Soil and Rainwater Pipe Boss Connector for 11/4" pipe



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



Reducer in ABS 11/4" plain tail x 19/23mm universal compression connection

Code	R16-BL
Code	R16-GR



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

Code **BOSSCONN-22MM**

Threaded Boss Connectors



Straight Connector 2" BSP male thread x Multifit

2" BSP x 1¾" 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"

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

Code RS1

Code RS4

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

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

Code RS2

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

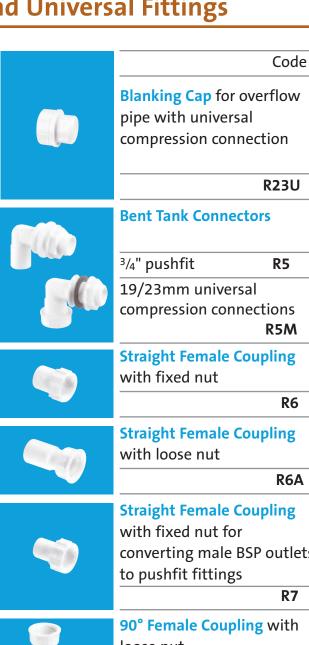
3/4" Overflow Pipe, Pushfit and Universal Fittings

Code

		Code	
		HDPE White Overflow Pipe	
		³/ ₄ " x 3m lengths	
		· · · · · · · · · · · · · · · · · · ·	
			_
		K-5/W	
S		Straight Connectors	
20			
FILLING		³ / ₄ " pushfit R1	_
			_
	Shirt and	19/23mm universal	
二 二		compression connections	
		R1M	
Universal		Straight Connector with	
S		universal compression	
<u></u>		connections for 19/23mm	
>			
		rigid pipe and 25mm	
		flexible pipe	
\supset		R1M-CO	
		90° Bends	
and		50 Bellas	
<u></u>			
		³ / ₄ " pushfit R2	
		19/23mm universal	
		compression connections	
		R2M	
Pusntit		135° Bends	
\mathbf{Z}		255 Bellas	
_		2/11 1.51	
Ð		³ / ₄ " pushfit R2A	
<u>م</u>		19/23mm universal	
7		compression connections	
		R2AM	
JVerTIOW		Tees	
0		1003	
		2/11 1.51	
		³ / ₄ " pushfit R3	
e (19/23mm universal	
<		compression connections	
		R3M	
_			
7/		Straight Tank Connectors	
•			
66		³ / ₄ " pushfit R4	
30	Cores .	19/23mm universal	

compression connections

R4M





converting male BSP outlets **R7**

R6



loose nut

R8A



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

R13



Reducer in ABS 11/4" plain tail to BS EN 1329-1:2000 x 19/23mm universal compression connection

R16

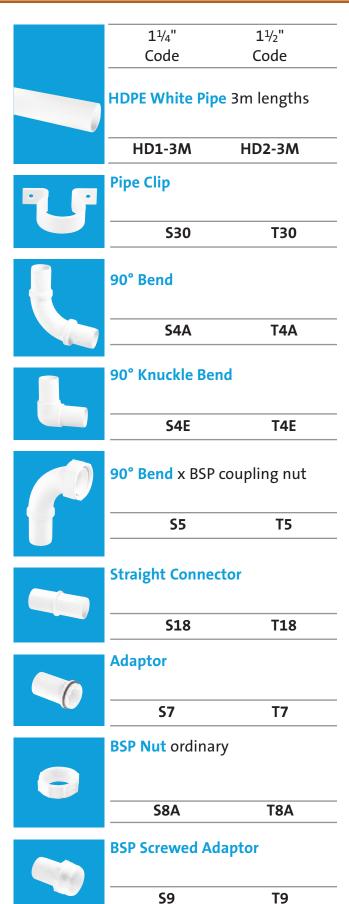


Reducer in ABS 1½" plain tail to BS EN 1329-1:2000 x 19/23mm universal compression connection

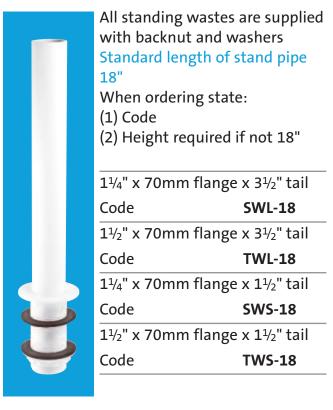
R17

and Pushfit Fittings 1/4" and 11/2"Overflow Pipe

11/4" and 11/2" Overflow Pipe and Pushfit Fittings SECTION 4



Standing Waste Backnut Model



Tank Overflow

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

Unslotted Waste without Grid

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



3/4"	1"	11/4"	1 ½"	2"
Code	Code	Code	Code	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 ZWLFB



Screened Breather/Filter with universal compression connection to pipe

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



Tank Lid Adaptor for expansion pipe

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



Tank Connector

R4M	H11M	S11M	T11M	Z11M



3/4"	1"	11/4"	11/2"	2"
Code	Code	Code	Code	Code

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

BL30-3/4 - - - -



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

- - SWLFCV TWLFCV -



In-Line Screened/Filter Pipe Coupling

RWILF HWILF SWILF TWILF ZWIL



Frost Protection Dip Tube Bend

Connect pipe to provide length of dip tube required

- - S5 T5 -



90° Multifit x Plain End

_	-	MS4L	MT4L	MZ4L



90° Multifit Bend

-	-	MS4	MT4	MZ4

Tundishes and Non-Return Valves

Tundishes



Tundish with 3/4" pushfit outlet

Code

TUN-1



Tundish with 19/23mm universal compression outlet

TUN-2



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

TUN-3



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

TUN-4



One-Piece Tundish with 19/23mm universal compression inlet x 1¹/₄" universal compression 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 compression outlet

Code **TUNVALVE**



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

Code TUN5-CL

In-Line Non-Return Valves



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

Code R28-NRV



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

Code R29-NRV



Convalve Non-Return Valve with 1¹/₄" universal compression connections

Code **CONVALVE-125**



Convalve Non-Return Valve with 11/4" plain tail x 11/4" universal compression outlet

Code **CONVALVE-125P**

and Tee **NC Overflow Kits with Tundish**

WC Overflow Kits with Tundish - Overflow into Flush Pipe

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



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

Code TUNKIT-1

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

Code TUNKIT-3

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

Tee Pieces



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

Code V33T



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

Code V33T-FP



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

Code **V33S-22**

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



ACALPINE Plumbing Products

WC Connectors
MACFIT, Flexible and Rigid

SECTION



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
- All outlets fit inside diameter pipe sizes as follows:

110mm Plain End: Ring seal socket of 110mm soil or underground pipe fittings

4"/110mm: PVC-U and cast iron

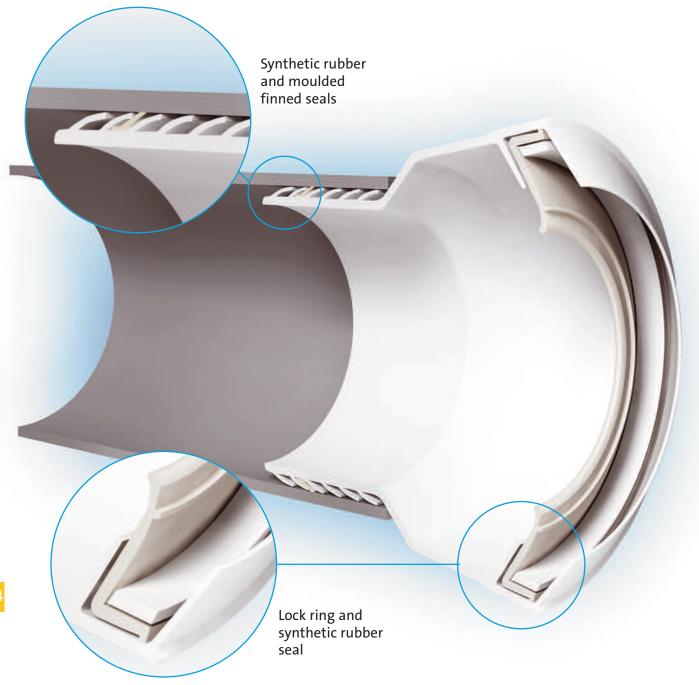
3½**"/90mm:** Cast iron

3"/75mm: PVC-U and cast iron

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

MACFIT

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





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

Code MAC-1



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

Code MAC-3



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

Code MAC-3C



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

Code MAC-4



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

Code MAC-4A



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

Code MAC-7A



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

Code MAC-8



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

Code MAC-8L



Straight Extension Adjustable Length 4"/110mm Outlet

Code MAC-EXTA



Straight Extension Adjustable Length 3½"/90mm Outlet

Code MAC-EXTB



Straight Extension Adjustable Length 3"/75mm Outlet

Code MAC-EXTC



Linking Connector Adjustable Length (Polypropylene)

Code MACLINK

Short Straight Connector

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



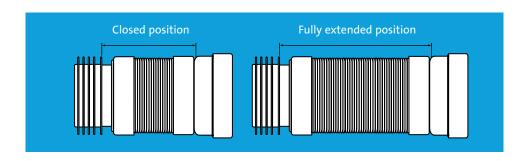
Overall length of connector 88mm 97-107mm Inlet - 4"/110mm Outlet

Code MAC-1-BTW

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 572125072a and other testing houses. Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose







97-107mm Inlet 4"/110mm Outlet

Closed Sextended Closed Sextended Closed Sextended 170mm 140mm 140mm 100mm 160mm

WC-F26R WC-F23R WC-F18R



97-107mm Inlet 4"/110mm Outlet 11/4" Universal Vent Boss

180mm > 380mm 150mm > 280mm

WC-F26RV WC-F23RV



97-107mm Inlet 31/2"/90mm Outlet

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

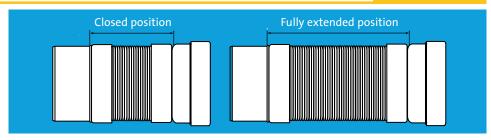
WC-F26S WC-F23S WC-F18S



97-107mm Inlet 31/2"/90mm Outlet 11/4" Universal Vent Boss

180mm > 380mm 150mm > 280mm

WC-F26SV WC-F23SV -





97-107mm Inlet 110mm Plain End Outlet

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

WC-F26P

WC-F23P



97-107mm Inlet 110mm Plain End Outlet 11/4" Universal Vent Boss

170mm > 380mm 140mm > 260mm

WC-F26PV

WC-F23PV

90° Flexible WC Connectors



97-107mm Inlet 4"/110mm Outlet

> Extended Closed 190mm 270mm

Code WC-CON8F18



WC-CON8F



97-107mm Inlet 4"/110mm Outlet 11/4" Universal Vent Boss

Code WC-CON8FV

Flexible Extensions for WC Connectors



110mm Inlet 4"/110mm Outlet

Extended Closed 195mm 95mm

Code EXTA-F



110mm Inlet 31/2"/90mm **Outlet**

95mm 195mm

Code **EXTB-F**



Flexible WC Connectors for Back to Wall WC Pan

Flexible WC Connectors for Back to Wall WC Pan

- Soft synthetic rubber inlet connection secured by a worm drive hose clip provides a secure and reliable connection to the WC pan spigot prior to the final placement against wall or furniture
- There is no British Standard for flexible WC connectors but M^CAlpine WC connectors comply to German Standard DIN 1389:2000-05 for flexible WC connectors
- Tested by German Testing House LGA, certificate number 572125072a and other testing houses.
 Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose

LGA

Quality ertificate





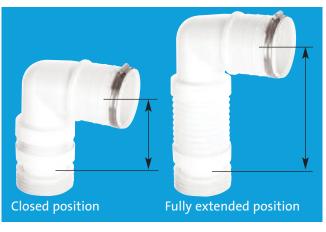
97-107mm Inlet - 4"/110mm OutletCode **WC-F21R**



97-107mm Inlet - 3¹/2"/90mm OutletCode WC-F21S

Patents pending

90° Short Bend in vertical position

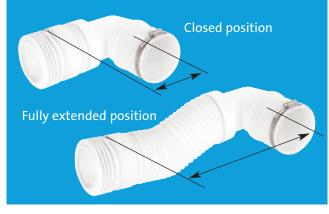


Closed 170mm Extended 250mm

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

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

90° Long Bend in horizontal position



Closed 230mm Extended 480mm

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

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

Rigid WC Connectors

Dimensional leaflet available on request



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

Code WC-CON1



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

Code WC-CON1V



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

Code WC-CON2



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

Code WC-CON2B



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

Code WC-CON3



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

Code WC-CON4



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

Code WC-CON4A



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

Code WC-CON4B



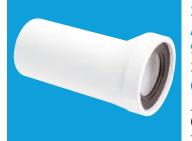
20mm Offset Adjustable Length 97-107mm Inlet 4"/110mm Outlet

Code WC-CON5



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

Code WC-CON5B



10mm Offset Adjustable Length 97-107mm Inlet 110mm Plain End Outlet

Code WC-CON6



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

Code WC-CON7



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

Code WC-CON7A



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

Code WC-CON7B



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

Code WC-CON16



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-CONOP



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

Code WC-CON8E





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



Extension
Adjustable Length
4"/110mm Outlet

10mm Offset

Code WC-EXTC



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

Code WC-EXTD

Straight Telescopic WC Socket Extension

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



Overall length of telescopic socket extension piece 133mm

Code WC-CON-EXT

WC Connector Accessories

Boss Pipe for use with WC Connectors

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



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

Code WC-BP1



WC Connector Accessories

Anti Cross-Flow and Rodent Barrier Valve

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







Code

ARB-1

WC Connector Wall Flange



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

Code WC17-90

To fit over 4"/110mm Soil Pipe or Rigid WC Connectors with Plain End Outlet
Code WC17-110

To fit over Collar of Flexible WC Connector

Code **WC17-114**

WC Frame Connector Kit



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

Code FPKIT-3



Air Admittance Valves (Ventapipe)

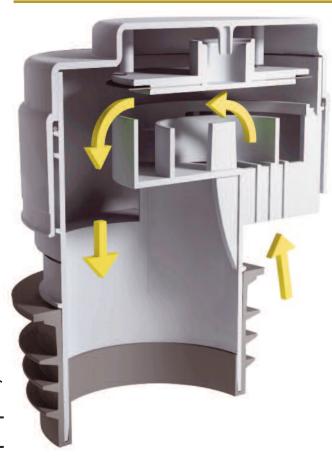
SECTION

6



Air Admittance Valves (Ventapipe)

Air Admittance Valves (Ventapipe)



Valve open



Valve closed

Code VP100

Ventapipe 100 and Ventapipe 50 Application

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

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

Operation

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

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

Approval

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

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

Quality Certificate

The LGA Quality Certificate certifies a product's high and consistent quality. It confirms the performance capability (functional characteristics, wear and tear and service life)



of a product and therefore its comprehensive quality. Annual production inspections ensure its consistent quality. Whenever the LGA Quality Certificate is on a product it ensures it has been thoroughly tested.

Advantages

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

Information for General Guidance only

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

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

Ventapipe 15, 25, 40 and 50 Application

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



Air Admittance Valves (Ventapipe)

Code	Class	Air Flow Capacity	Colour
		(Litres per second)	



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



VP100	A1	47.2	Grey
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Ventapipe 100 with solvent weld outlet for 4"/110mm pipe



VP100N	A1	19.4	Grey
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Ventapipe 50 with dual-fit synthetic rubber finger seal outlet for 3"/75mm or 4"/110mm pipe. Also incorporates 2" universal compression outlet 4"/110mm pipe - push over rubber seal 3"/75mm pipe - push into rubber seal

VP50-100	A1	16.3	Grey
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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



VP50P	A1	15.5	Grey
-------	----	------	------



Ventapipe 50 with 2" universal compression outlet



VP50	A1	14.2	Grey



Ventapipe 40/50 solvent weld outlet for $1\frac{1}{4}$ ", $1\frac{1}{2}$ " or 2" BS EN 1329-1:2000 solvent weld waste pipe



VPSF-40/50	A1	9.1	White

Code	Class	Air Flow Capacity	Colour
		(Litres per second)	



Ventapipe 25 with 11/2" BSP thread on outlet



VP1	A1	3.0	Grey
VP1W	A1	3.0	White



Ventapipe 25 with 11/2" universal compression outlet



VP2	A1	3.0	Grey
VP2W	A1	3.0	White



Ventapipe 25 with integral 11/2" Multifit tee

VP3	-	4.5	White



Ventapipe 25 with integral 11/4" Multifit tee

VP4	-	2.0	White



Ventapipe 15 with 11/4" universal compression outlet

VP15M	-	0.5	Grey

Air Admittance Valves (Ventapipe)

Internal/External Air Admittance Valve for 110mm Soil Pipe

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

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



Code	Class	Air Flow Capacity	Colour	
		(Litres per second)		

Ventapipe 100 with dual-fit synthetic rubber finger seal outlet for 4"/110mm pipe

VP100E A1 40	Black
---------------------	-------





Internal Air Admittance Valve

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

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

AAVs must be installed in the vertical position.

Internal Advantages

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

External Air Admittance Valve

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

External Advantages

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

Valve open

Valve closed





Operation

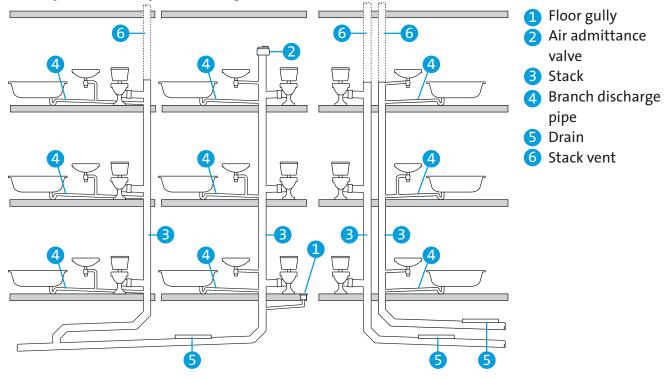
The two diagrams illustrate how Ventapipe functions. The valve diaphragm lifts and allows air to be drawn into the system when it is subjected to negative pressure. On cessation of negative pressure the diaphragm returns to the closed position thereby preventing the escape of foul air into the building.

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

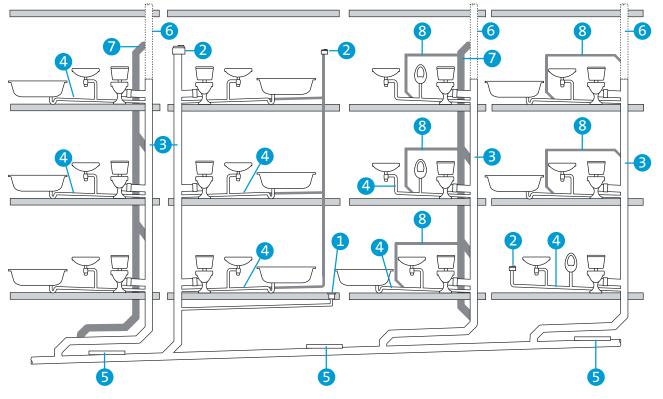
Installation Guidelines

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

Primary Ventilated System Configuration



Secondary Ventilated System Configuration



- floor gully
- Air admittance valve
- Stack
- 4 Branch discharge pipe
- Drain
- 6 Stack vent
- Ventilating stack
- 8 Branch ventilating pipe

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

Alternatively, air admittance valves may be used.



Waste Outlet Fittings, Waste Accessories and Handipak

SECTION



Waste Outlet Fittings, Waste Accessories and Handipak

Waste Outlet Fittings

General

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

Chrome Plated Brass Basin Wastes with Chrome Plated Brass Backnuts



Backnut Model 11/4" x 60mm flange x 31/2" slotted tail with spring-loaded mushroom plug

Code CW60-CB



Backnut Model $1\frac{1}{4}$ " x 60mm flange x $3\frac{1}{2}$ " slotted tail with swivel plug

Code **CW60SP-CB**



Backnut Model 11/4" x 60mm flange x 31/2" unslotted tail with spring-loaded mushroom plug

Code CWU60-CB



Backnut Model 11/4" x 60mm flange x 31/2" unslotted tail with swivel plug

Code **CWU60SP-CB**



Backnut Model 1¹/₄" x 60mm flange x 3¹/₂" unslotted tail, free flowing (open) with mushroom cover plate

Code **DWU60-CB**



Backnut Model 11/4" x 60mm flange x 31/2" slotted tail with swivel handle plug

Code **BW60SPH-CB**



Backnut Model 11/4" x 60mm flange x 31/2" slotted tail with square spring-loaded plug

Code **CW60SQ-CB**



Backnut Model 11/4" x 60mm flange x 31/2" unslotted tail with swivel handle plug

Code **BWU60SPH-CB**



Backnut Model 11/4" x 60mm flange x 31/2" unslotted tail with square spring-loaded plug

Code CWU60SQ-CB



Extended Backnut 11/4" x 55mm tail: threaded shroud and extension piece

Code **GWAL-CB**

asin Waste Outlets

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

- Centre pin dry fixing connection for a quick and simple installation
- Suitable for basins with or without overflow
- Polished stainless steel mushroom plug
- CP brass or white plastic waste body



Centre Pin Model

Code

11/4" x 60mm polished stainless steel flange with spring-loaded mushroom plug - CP brass body CWP60-SS



Centre Pin Model

Code

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

Centre Pin Basin Wastes - Stainless Steel Flange

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



Centre Pin Model

Code

1¼" x 60mm flange with plug	BSW1P
1¼" x 60mm flange, plug with CP chain and stay	BSW1PC
1½" x 60mm flange with plug	BSW2P
1½" x 60mm flange, plug with CP chain and stay	BSW2PC



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

1¼" x 60mm flange with plug	BSW11P
1¼" x 60mm flange, plug with CP chain and stay	BSW11PC

Backnut Basin Wastes - Chrome Plated Plastic



Backnut Model

1¼" x 60mm flange x 3½" slotted tail with plug	BW1
1¼" x 60mm flange x 3½" unslotted tail with plug	BW1A



Backnut Model

1¼" x 60mm flange x 3½" slotted tail with CP plug	CW1
---	-----

 $\mathbf{\Omega}$

Basin Waste Outlets

Backnut Basin Wastes



Stainless steel flange - white plastic body	Code
1¼" x 60mm flange x 3½" slotted tail with plug	BSW1
$1\frac{1}{4}$ " x 60mm flange x $3\frac{1}{2}$ " unslotted tail with plug	BSW2



Stainless steel flange - black plastic body

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



White plastic

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

Combined Wastes and Overflows for Vanity Basin

Centre Pin Models - stainless steel flange



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

Code **FVW1P***



1¹/₄" x 60mm flange, CP overflow grid, plug and CP chain

Code **FVW1PC**





 $1\frac{1}{4}$ " x 60mm flange x $3\frac{1}{2}$ " tail, plug and CP chain

Code FVW1PW

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asin Waste Outlets

^{*} Nut and bolt overflow connection and compression connection to flexible tube

Bath Waste Outlets

Bath Wastes



Backnut Model CP brass 11/2" x 70mm flange x 44mm tail with spring-loaded mushroom plug

Code CBW70-CB



Backnut Model 11/2" x 70mm CP brass flange x 58mm tail with spring-loaded mushroom plug

Code CBW70-CLK



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

CWS70-CB Code



Combined Waste and Overflow Centre Pin Model 11/2" x 70mm CP brass flange x 60mm tail with springloaded mushroom plug and matching overflow cover plate

Code **CBWF70CB**



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

Code CBW70-SW

Centre Pin Bath Wastes - Stainless Steel Flange







11/4" x 70mm flange with plug and CP chain

Code **BSW9PC**



1½" x 70mm flange with plug

Code BSW10P

 $1\frac{1}{2}$ " x 70mm flange with plug and CP chain

Code BSW10PC



1½" x 70mm flange with plug

Code BSW15P

 $1\frac{1}{2}$ " x 70mm flange with plug and CP chain

Code BSW15PC

Backnut Bath Wastes



Backnut Model - stainless steel flange

 $1\frac{1}{2}$ " x 70mm flange x $1\frac{1}{2}$ " unslotted tail with plug Code **BSW10**



Backnut Model - chrome plated plastic

 $1\frac{1}{2}$ " x 70mm flange x $1\frac{1}{2}$ " unslotted tail with plug Code BW5



 $1\frac{1}{2}$ " x 70mm flange x $1\frac{1}{2}$ " unslotted tail with CP plug Code CW5



Backnut Model - white plastic

11/4" x 70mm flange x 11/2" unslotted tail with plug Code W4



 $1\frac{1}{2}$ " x 70mm flange x $1\frac{1}{2}$ " unslotted tail with plug Code W₅

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

Pop-Up Bath Wastes and Overflows

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



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

Code **PUB-CPB**

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

Code PUB-CP

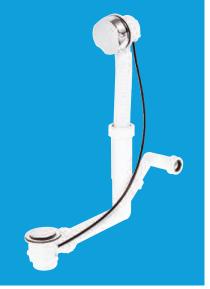


1½" x 70mm CP flange and mushroom plug with CP brass overflow/command knob

Code PUB-CPX

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

Code PUB-WH



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

Code PUBX-SP

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

Push Button Bath Pop-Up Waste with Trap and Overflow

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

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



and Overflows ath Combined Wastes

Combined Wastes and Overflows



Centre Pin Model - stainless steel flange

Code

11/4" 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

1¹/₄" x 70mm flange, CP overflow grating, plug and CP chain **FBW1PC**

 $1\frac{1}{2}$ " 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

 $1\frac{1}{2}$ " x 70mm white plastic waste and overflow, plug and CP chain

FBW2PW

All the above waste outlet fittings are suitable for use with traps listed on page 18 97

Sink Waste Outlets

Centre Pin Sink Wastes - Stainless Steel Flange



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



Centre Pin Model

$1\frac{1}{2}$ " x 85mm flange with black PVC handle plug	BSW6PR
---	--------



Centre Pin Model

1⅓" x 70mm flange with black PVC handle plug	BSW10PR
--	---------



Centre Pin Model

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



Centre Pin Model
Waste for Belfast Sink

$1\frac{1}{2}$ " x 85mm flange with CP handle plug	BSW6CP2H
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Centre Pin Model Reducer Waste

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

Backnut Sink Waste



Backnut Model - white plastic

$1\frac{1}{2}$ " x 85mm flange x $3\frac{1}{2}$ " unslotted tail with plug	W3
--	----



Centre Pin Model - stainless steel flange

Code

 $11\!/\!_4$ " x 85mm flange, CP overflow grid, plug and CP chain

FSW1PC

 $11\!\!/_{\!2}$ " x 85mm flange, CP overflow grid, plug and CP chain

FSW₂PC

 $1\frac{1}{2}$ " x 70mm flange, CP overflow grid, plug and CP chain

FSW2PC-70



Centre Pin Model - stainless steel flange

11/4" x 85mm flange, black overflow grid, plug and CP chain

L2M1bb

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

1¹/₂" 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

11/4" x 85mm flange, CP overflow grid, plug with CP chain and stay FSW1P*

 $1\frac{1}{2}$ " 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

$1\frac{1}{2}$ " x 113mm flange	BSWCLS
1½ X 113mm Hange	R2AACT2



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

1½" x 113n	nm flange	BSW-BR-CP



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

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

Centre Pin Model - stainless steel flange Spring-Loaded plug

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



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

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



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

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

Code

PUFS70-CP



Stainless Steel Strainer plug for Basket Strainer Waste stemball model

Code **BWSTSS-TOP**



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

Code **BSKTOP**

Pop-Up Sink Wastes



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

11/2" x 70mm flange with CP plastic command knob PUS70-CP 11/2" x 70mm flange, flexible overflow, CP plastic



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

11/2" x 113mm flange basket strainer waste with CP plastic command knob PUS113-CP

11/2" x 113mm flange basket strainer waste, flexible overflow, CP plastic grid and command knob PUFS113-CP

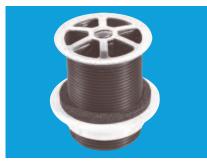
Shower Waste Outlets

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
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Backnut Model - CP plastic

$1\frac{1}{2}$ " x 70mm flange x $1\frac{1}{2}$ " 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 23/8" tail	SWHF2-WH



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

Backflut Model - Standard Cover Hange	Code
1½" x 113mm flange x 23/8" white plastic flange	SWHF3-WH
1½" x 113mm flange x 23/8" CP plastic flange	SWHF3-CP
2" x 113mm flange x 23/8" white plastic flange	SWHF4-WH
2" x 113mm flange x 23/8" CP plastic flange	SWHF4-CP



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

1½" x 113mm flange x 23/8" white plastic flange	SWHF5-WH
1½" x 113mm flange x 2¾" CP plastic flange	SWHF5-CP
2" x 113mm flange x 23/8" white plastic flange	SWHF6-WH
2" x 113mm flange x 23/8" CP plastic flange	SWHF6-CP



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



Urinal Waste Outlets

Backnut Urinal Wastes



Backnut Model - domed flange

	Code
$1\frac{1}{4}$ " x 60mm flange x $3\frac{1}{2}$ " white plastic tail	WU10
1⅓" x 60mm flange x 2" white plastic tail	WU11



Backnut Model - domed flange with removable dome

2" x 85mm flange x 15/8" grey plastic tail	GWU20
2" x 85mm flange x 15/8" white plastic tail	WU20



Backnut Model - flush flange

1¼" x 60mm flange x 3½" CP plastic tail	CWU1A
11/4" x 60mm flange x 31/2" white plastic tail	WU1A



Backnut Model - flush flange

11/4" x 60mm flange x 21/8" CP plastic tail	CWU1S
1¼" x 60mm flange x 2⅓" white plastic tail	WU1S

Waste with plug for Caravans and Boats



This waste has a plain tail and can be fitted into any $1\frac{1}{4}$ " x 75mm water seal adjustable inlet trap - e.g. AA10 see page 6. Remove standard adjustable inlet supplied and substitute fitting

50mm plastic flange, 3/4" BSP thread, plug with special locking nut CTW1

Waste Accessories and Soap Dispenser

Plugs



Black Plastic with Rub	Rubber Seal	
	Code	
13/4" with handle	RP2H	



Black PVC

1½" with handle	ВРЗН
1³/₄" with handle	BP4H



White Plastic with Rubber Seal

1 ³ / ₄ " with handle	WP2H
---	------



CP Plastic with Rubber Seal

$1\frac{1}{2}$ " with handle	CP1H
1³/₄" with handle	CP2H



CP Plastic with Rubber Seal

11/2"	CP1
1 ³ / ₄ "	CP2



Black PVC

	11/2"	BP3
157	1½" with triangle	BP3T
	13/4"	BP4
P	1³/₄" with triangle	BP4T
	2"	BP5



White Plastic with Rubber Seal

1 ¹ / ₂ "	WP1
1½" with triangle	WP1T
13/4"	WP2
1 ³ / ₄ " with triangle	WP2T



White PVC

1 ¹ / ₂ "	WP3
1½" with triangle	WP3T
13/4"	WP4
1 ³ / ₄ " with triangle	WP4T



Captive Plug - Black Plastic

11/2"	BP1-CAP†
1 ³ / ₄ "	BP2-CAP†

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

Chains



	Code
10"	CP chain and two triangles
	CH5
16"	CP chain and two triangles
	CH4
18"	CP chain and two triangles
18"	

10" CP chain and two triangles, stay and nut CH10

Backnuts



White Plastic with Rubber Washer

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

Tap Hole Stoppers



Stainless Steel

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



White Plastic

17mm long thread TAPSTOP-WH

Overflow Stopper



Black Plastic

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

Soap Dispenser



Sink 1/2 litre bottle with CP plastic top

Code	SOAP-CP

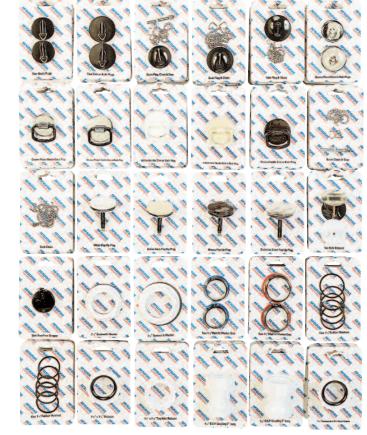
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Handipak Carded Plumbing Range

Card Description

- 1 Two Basin Plugs
- 2 Two Sink or Bath Plugs
- 3 Basin Plug, Chain & Stay
- 4 Bath Plug & Chain
- 5 Sink Plug & Chain
- 6 Chrome Plated Basin & Bath Plugs
- 7 Chrome Plated Handle Basin Plug
- 8 Chrome Plated Handle Sink or Bath Plug
- 9 White Handle Sink or Bath Plug
- 10 Indian Ivory Handle Sink or Bath Plug
- 11 Mocca Handle Sink or Bath Plug
- 12 Basin Chain & Stay
- 13 Bath Chain
- 14 White Pop-Up Plug
- 15 Indian Ivory Pop-Up Plug
- 16 Mocca Pop-Up Plug
- 17 Stainless Steel Pop-Up Plug
- 18 Tap Hole Stopper
- 19 Sink Overflow Stopper
- 20 11/4" Backnut & Washer
- 21 1¹/₂" Backnut & Washer
- 22 Two 1¹/₄" Multifit Washer Sets
- 23 Two 11/2" Multifit Washer Sets
- 24 Five 1¹/₄" Rubber Washers
- 25 Five 1¹/₂" Rubber Washers
- 26 1¹/₂" x 1¹/₄" Reducer
- 27 1¹/₂" x 1¹/₄" Trap Inlet Reducer
- 28 1¹/₄" BSP Coupling 2" Long
- 29 11/2" BSP Coupling 2" Long
- 30 1¹/₂" European to UK Waste Adaptor





- 31 Five Rubber 'O' Rings for Shower Trap Dip Tube
- 32 Two CP Grids for Shower Traps
- 33 Two White Grids for Shower Traps
- 34 Two Gold Grids for Shower Traps
- 49 Stainless Steel Strainer Plug (Stemball)
- 50 White Strainer Plug
- 51 Indian Ivory Strainer Plug
- 52 Mocca Strainer Plug
- 53 Stainless Steel Strainer Plug
- 54 Gold Waste & Grid for McAlpine Access Shower Trap

- 55 Tundish with 19/23mm Universal Compression Outlet
- 56 Side Inlet Tundish with 19/23mm Universal Compression Outlet
- 57 Top Inlet Tundish with 19/23mm Universal Compression Outlet
- 58 ³/₄" Overflow x 1¹/₂" Flushpipe Tee
- 59 Nozzle for M^cAlpine Washing Machine Trap
- 60 1¹/₂" Tee Piece with Adaptor for Washing or Dishwashing Machine Discharge Hose

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Technical Details and Index

SECTION

109

Technical Details and Index

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 manufactures 19mm water seal traps to meet market demand for replacement traps or for situations where space is limited. These traps should <u>not</u> 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 <mark>(1)</mark>	0	0
Washbasin, Bidet (30mm diameter trap)	30	75	1.1	4.4 <mark>(1)</mark>	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		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 59

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 67

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



Fechnical Detail

Product Information

Traps and Waste Outlet Fittings see Sections 1 and 7

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

Condensate Products see Pages 16-17

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.

Bath Fillers see Page 20

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

Shower and Floor Gullies see Section 2

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

Surefit Waste System see Page 59

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

MACFIT WC Connectors see Pages 74-75

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

Flexible WC Connectors see Pages 76-78

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

Rigid WC Connectors see Pages 79-81

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

Air Admittance Valves (Ventapipe) see Section 6

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





Product Code Index

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VP100N	86	WC-CON5B	79	WC17-114	82	Z11M	55/68	
VP15M	87	WC-CON6	79	WCTRAP4P	23	Z18L	59	
VP1W	87	WC-CON7	79	WCTRAP4S	23	Z18M	59	
VP2	87	WC-CON7A	79	WF21	21	Z21A	55	
VP2W	87	WC-CON7B	79	WF21-SP	22	Z23	58	
VP3	87	WC-CON8	80	WHB-1	10	Z23L	59	
VP4	87	WC-CON8E	80	WM1	12	Z23M	55	
VP50	86	WC-CON8F	77	WM11	12	Z23MR	62	
VP50-100	86	WC-CON8F-B	ΓW	WM12	12	Z23U	55	
VP50P	86		78	WM14	12	Z28L	59	
VPSF-40/50	86	WC-CON8F-S-I	BTW	WM15	12	Z28L-ISO	54	
VSG1T6SS	39		78	WM2	12	Z28M	54	
VSG1WH	39	WC-CON8F18	77	WM2V	12	Z28M-NRV	57	
VSG1WH-NSC		WC-CON8F18-	BTW	WM3	12	Z28M-NRV	5 57	
VSG52T6SS	40		78	WM3-CAP	12	Z29	55	
VSG52WH	39	WC-CON8F18	-S-	WM4	13	Z30	59	
		BTW	78	WMF3	13	Z31M	63	
W		WC-CON8FV	77	WMF4	13	Z4L	59	
W1	94	WC-CON8V	80	WP1	106	Z5M	55	
W10	67	WC-CON9	80	WP1T	106	Z8A	58	
W11	67	WC-CON9V	80	WP2	106	Z8B	58	
W1A	94	WC-CONQ		WP2H	106	Z8M	55	
W20	67	WC-CONQP		WP2T	106	ZP10	11	
	57	VAIC EVITA						

ZS26L

W21

WC-EXTA

WP3