

# WC Connectors

## MACFIT, Flexible and Rigid

SECTION  
**5**



# WC Connectors

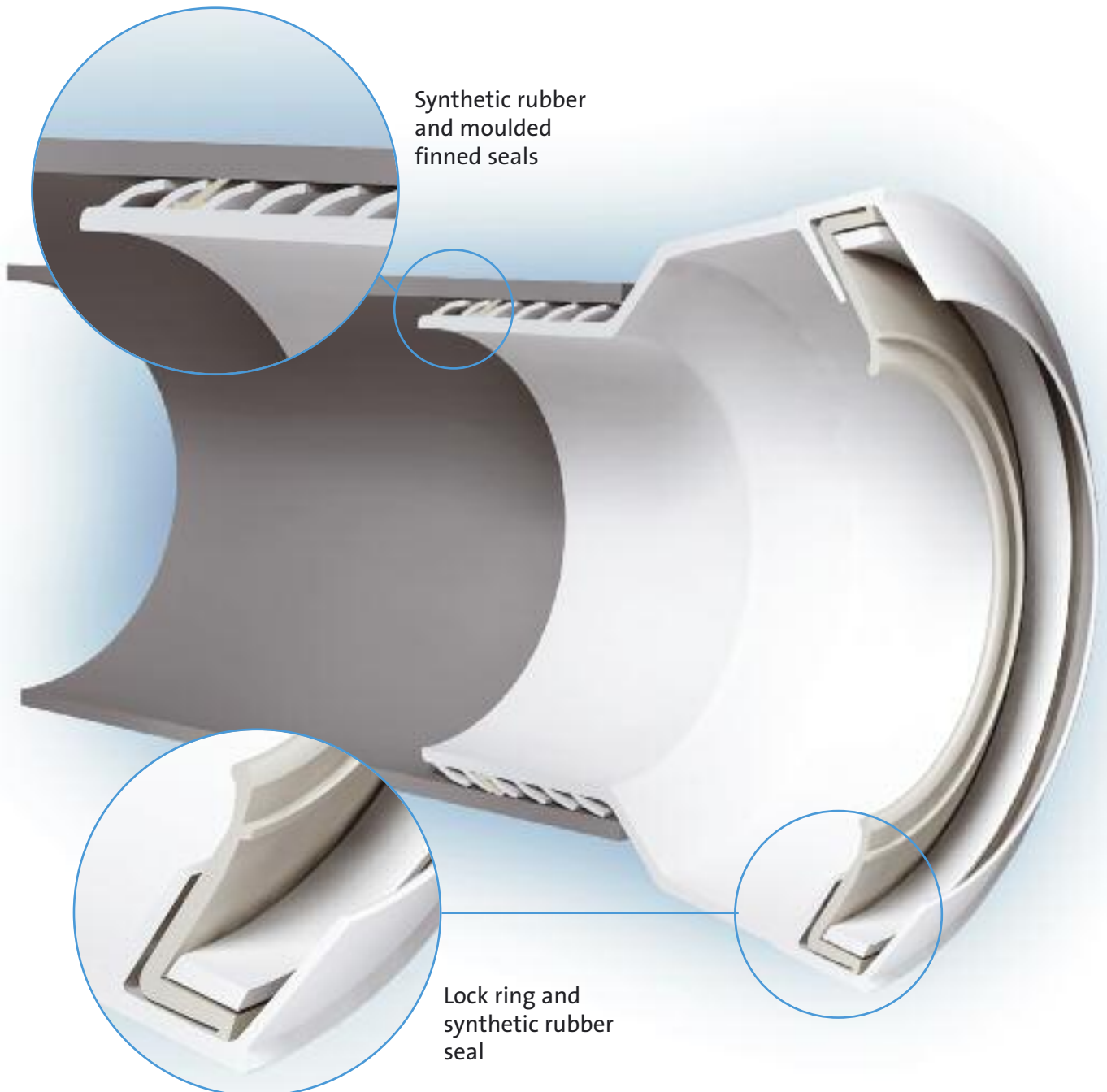
## WC Connectors General

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

## MACFIT

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

MACFIT WC Connectors





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

Code **MAC-1**



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

Code **MAC-3**



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

Code **MAC-3C**



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

Code **MAC-4**



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

Code **MAC-4A**



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

Code **MAC-7A**



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

Code **MAC-8**



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

Code **MAC-8L**



Straight Extension  
Adjustable Length  
4"/110mm Outlet

Code **MAC-EXTA**



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

Code **MAC-EXTB**



Straight Extension  
Adjustable Length  
3"/75mm Outlet

Code **MAC-EXTC**



Linking Connector  
Adjustable Length  
(Polypropylene)

Code **MACLINK**

### Short Straight Connector

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

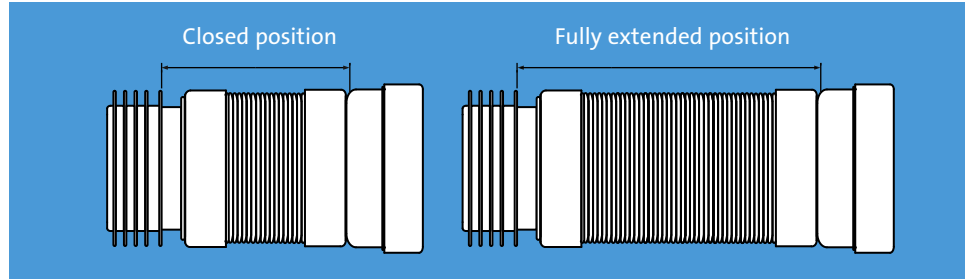


Overall length of  
connector 88mm  
97-107mm Inlet -  
4"/110mm Outlet

Code **MAC-1-BTW**

# Flexible WC Connectors

- There is no British Standard for flexible WC connectors but M<sup>C</sup>Alpine connectors comply to German Standard DIN 1389:2000-05 for flexible WC connectors
- Tested by German Testing House LGA, certificate number 572125072a and other testing houses. Tests prove conclusively that there is no build-up of sediment and the product is perfectly fit for purpose



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



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

**WC-F23R**

**WC-F18R**

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



180mm	>	380mm	150mm	>	280mm
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**WC-F26RV**

**WC-F23RV**

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## 97-107mm Inlet 3½"/90mm Outlet



170mm	>	410mm	140mm	>	290mm	100mm	>	160mm
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**WC-F26S**

**WC-F23S**

**WC-F18S**

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



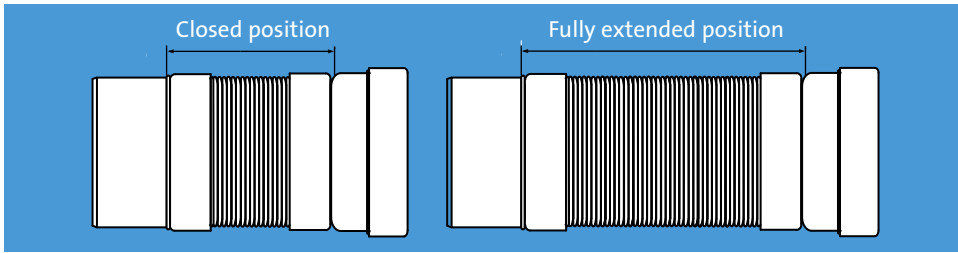
180mm	>	380mm	150mm	>	280mm
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**WC-F26SV**

**WC-F23SV**

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

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

**WC-F26P**

**WC-F23P**

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

170mm > 380mm      140mm > 260mm

**WC-F26PV**

**WC-F23PV**

-

**90° Flexible WC Connectors**



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

Closed 190mm > Extended 270mm

Code **WC-CON8F18**



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

220mm > 400mm

Code **WC-CON8F**



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

220mm > 400mm

Code **WC-CON8FV**

**Flexible Extensions for WC Connectors**



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

Closed 95mm > Extended 195mm

Code **EXTA-F**



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

95mm > 195mm

Code **EXTB-F**

# Flexible WC Connectors for Back to Wall WC Pan

## Flexible WC Connectors for Back to Wall WC Pan

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

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



Closed 150mm      Extended 310mm

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

Code **WC-F21R**

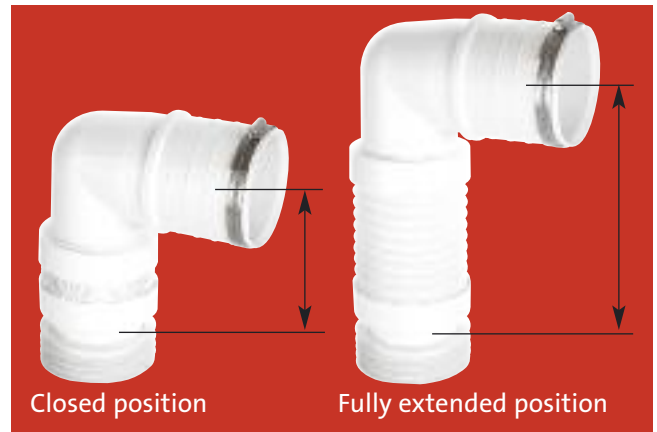


**97-107mm Inlet - 3½"/90mm Outlet**

Code **WC-F21S**

Patents pending

### 90° Short Bend in vertical position



Closed position

Fully extended position

Closed 170mm

Extended 250mm

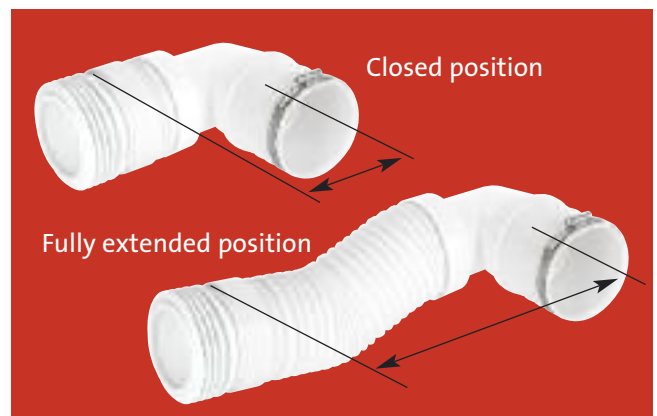
**97-107mm Inlet - 4"/110mm Outlet**

Code **WC-CON8F18-BTW**

**97-107mm Inlet - 3½"/90mm Outlet**

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

### 90° Long Bend in horizontal position



Closed position

Fully extended position

Closed 230mm

Extended 480mm

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

Code **WC-CON8F-BTW**

**97-107mm Inlet - 3½"/90mm Outlet**

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

■ Dimensional leaflet available on request



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

Code **WC-CON1**



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

Code **WC-CON1V**



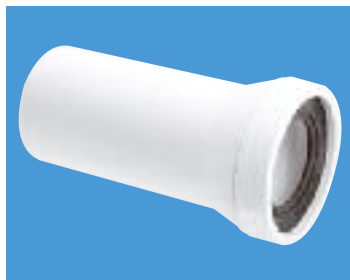
**Straight Adjustable Length**  
97-107mm Inlet  
4"/110mm Outlet

Code **WC-CON2**



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

Code **WC-CON2B**



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

Code **WC-CON3**



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

Code **WC-CON4**



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

Code **WC-CON4A**



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

Code **WC-CON4B**



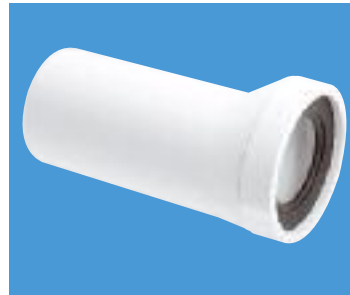
**20mm Offset Adjustable Length**  
97-107mm Inlet  
4"/110mm Outlet

Code **WC-CON5**



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

Code **WC-CON5B**



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

Code **WC-CON6**



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

Code **WC-CON7**



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

Code **WC-CON7A**



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

Code **WC-CON7B**



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

Code **WC-CON16**

# Rigid WC Connectors



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

Code **WC-CON8**



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

Code **WC-CONQ**



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

Code **WC-CON8V**



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

Code **WC-CONQP**



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

Code **WC-CON8E**

## Extension Pieces



Straight Extension  
Adjustable Length  
4"/110mm Outlet

Code **WC-EXTA**



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

Code **WC-CON9**



Straight Extension  
Adjustable Length  
3½"/90mm Outlet

Code **WC-EXTB**



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

Code **WC-CON9V**



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

Code **WC-EXTC**



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

Code **WC-EXTD**



## Straight Telescopic WC Socket Extension

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



Overall length of telescopic socket extension piece  
133mm

Code **WC-CON-EXT**

## WC Connector Accessories

### Boss Pipe for use with WC Connectors

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



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

Code **WC-BP1**

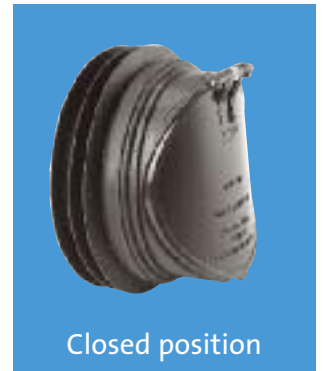


### Anti Cross-Flow and Rodent Barrier Valve

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



Open position

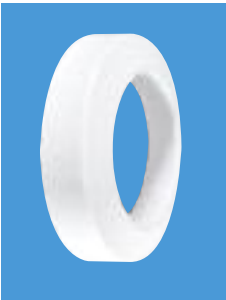


Closed position

Code

**ARB-1**

### WC Connector Wall Flange



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

Code

**WC17-90**

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

Code

**WC17-110**

To fit over Collar of Flexible WC Connector

Code

**WC17-114**