WC Connectors
MACFIT, Flexible and Rigid
WC Connectors General
- McAlpine 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

**Section 5**

**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 (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 McAlpine 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.

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>WC-F26S</td>
<td>97-107mm</td>
<td>3½&quot;</td>
</tr>
<tr>
<td>WC-F26R</td>
<td>4&quot;/110mm</td>
<td>107mm</td>
</tr>
<tr>
<td>WC-F26SV</td>
<td>97-107mm</td>
<td>3½&quot;</td>
</tr>
<tr>
<td>WC-F26RV</td>
<td>4&quot;/110mm</td>
<td>107mm</td>
</tr>
<tr>
<td>WC-F23S</td>
<td>3½&quot;</td>
<td>150mm</td>
</tr>
<tr>
<td>WC-F23R</td>
<td>4&quot;/110mm</td>
<td>140mm</td>
</tr>
<tr>
<td>WC-F23RV</td>
<td>3½&quot;</td>
<td>150mm</td>
</tr>
<tr>
<td>WC-F18S</td>
<td>3½&quot;</td>
<td>100mm</td>
</tr>
<tr>
<td>WC-F18R</td>
<td>4&quot;/110mm</td>
<td>100mm</td>
</tr>
</tbody>
</table>

### Sizes

- **Closed Position**
  - WC-F26S: 100mm
  - WC-F26R: 140mm
  - WC-F26SV: 100mm
  - WC-F26RV: 140mm
  - WC-F23S: 150mm
  - WC-F23R: 140mm
  - WC-F23SV: 150mm
  - WC-F18S: 160mm
  - WC-F18R: 160mm

- **Extended Position**
  - WC-F26S: 280mm
  - WC-F26R: 290mm
  - WC-F26SV: 280mm
  - WC-F26RV: 290mm
  - WC-F23S: 280mm
  - WC-F23R: 290mm
  - WC-F23SV: 280mm
  - WC-F18S: 160mm
  - WC-F18R: 160mm

### Dimensions

- **Closed Position**
  - WC-F26S: 100mm
  - WC-F26R: 140mm
  - WC-F26SV: 100mm
  - WC-F26RV: 140mm
  - WC-F23S: 150mm
  - WC-F23R: 140mm
  - WC-F23SV: 150mm
  - WC-F18S: 160mm
  - WC-F18R: 160mm

- **Extended Position**
  - WC-F26S: 280mm
  - WC-F26R: 290mm
  - WC-F26SV: 280mm
  - WC-F26RV: 290mm
  - WC-F23S: 280mm
  - WC-F23R: 290mm
  - WC-F23SV: 280mm
  - WC-F18S: 160mm
  - WC-F18R: 160mm

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*Image: Flexible WC Connectors with dimensions and model codes.*
### Flexible WC Connectors

#### 90° Flexible WC Connectors

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Closed</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td>WC-F26P</td>
<td>97-107mm</td>
<td>110mm Plain End</td>
<td>160mm</td>
<td>380mm</td>
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<tr>
<td>WC-F23P</td>
<td>97-107mm</td>
<td>110mm Plain End</td>
<td>130mm</td>
<td>260mm</td>
</tr>
<tr>
<td>WC-F26PV</td>
<td>97-107mm</td>
<td>110mm Plain End 1¼&quot; Universal Vent Boss</td>
<td>170mm</td>
<td>380mm</td>
</tr>
<tr>
<td>WC-F23PV</td>
<td>97-107mm</td>
<td>110mm Plain End 1¼&quot; Universal Vent Boss</td>
<td>140mm</td>
<td>260mm</td>
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#### Flexible Extensions for WC Connectors

<table>
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<tr>
<th>Model</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Closed</th>
<th>Extended</th>
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<tbody>
<tr>
<td>EXT-A-F</td>
<td>110mm</td>
<td>4&quot;/110mm</td>
<td>95mm</td>
<td>195mm</td>
</tr>
<tr>
<td>EXT-B-F</td>
<td>110mm</td>
<td>3½&quot;/90mm</td>
<td>95mm</td>
<td>195mm</td>
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</tbody>
</table>

- **WC-CON8F18**
- **WC-CON8F**
- **WC-CON8FV**
Flexible WC Connectors for Back to Wall WC Pan

- Soft synthetic rubber inlet connection secured by a worm drive hose clip provides a secure and reliable connection to the WC pan spigot prior to the final placement against wall or furniture.
- There is no British Standard for flexible WC connectors but McAlpine 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.

90° Short Bend in vertical position

- Closed 170mm
- Extended 250mm

<table>
<thead>
<tr>
<th>97-107mm Inlet - 4&quot;/110mm Outlet</th>
<th>Code WC-CON8F18-BTW</th>
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</thead>
<tbody>
<tr>
<td>97-107mm Inlet - 3½&quot;/90mm Outlet</td>
<td>Code WC-CON8F18-S-BTW</td>
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</table>

90° Long Bend in horizontal position

- Closed 230mm
- Extended 480mm

<table>
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<tr>
<th>97-107mm Inlet - 4&quot;/110mm Outlet</th>
<th>Code WC-CON8F-BTW</th>
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</thead>
<tbody>
<tr>
<td>97-107mm Inlet - 3½&quot;/90mm Outlet</td>
<td>Code WC-CON8F-S-BTW</td>
</tr>
</tbody>
</table>

Patents pending
Rigid WC Connectors

- 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 3 1/2”/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 3 1/2”/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 Adjustable Length 97-107mm Inlet 3 1/2”/90mm Outlet
  - Code WC-CON7A

- 14° Angle 97-107mm Inlet 4”/110mm Outlet
  - Code WC-CON7B

- 45° Angle 97-107mm Inlet 4”/110mm Outlet
  - Code WC-CON16

- Dimensional leaflet available on request
Rigid WC Connectors

90° Bend Adjustable Length
97-107mm Inlet
4”/110mm Outlet
Code WC-CON8

90° Bend Adjustable Length
with Vent Boss
97-107mm Inlet
4”/110mm Outlet
Code WC-CON8V

90° Bend Adjustable Length
Extended Inlet
97-107mm Inlet
4”/110mm Outlet
Code WC-CON8E

90° Bend Adjustable Length
97-107mm Inlet
110mm Plain End Outlet
Code WC-CON9

90° Space Saving Bend
Adjustable Length
97-107mm Inlet
4”/110mm Outlet
Code WC-CONQ

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

Extension Pieces

Straight Extension
Adjustable Length
4”/110mm Outlet
Code WC-EXTA

Straight Extension
Adjustable Length
3½”/90mm Outlet
Code WC-EXTB

10mm Offset Extension
Adjustable Length
4”/110mm Outlet
Code WC-EXTC

10mm Offset Extension
Adjustable Length
3½”/90mm Outlet
Code WC-EXTD
Straight Telescopic WC Socket Extension

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

Overall length of telescopic socket extension piece 133mm
Code WC-CON-EXT

WC Connector Accessories

Boss Pipe for use with WC Connectors

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

3½”/90mm x 4”/110mm Connector with ‘O’ seal socket to fit any 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

SECTION 5

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

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>WC17-90</td>
<td>To fit over Rigid WC Connector with 4”/110mm Rubber Seal Outlet</td>
</tr>
<tr>
<td>WC17-110</td>
<td>To fit over 4”/110mm Soil Pipe or Rigid WC Connectors with Plain End Outlet</td>
</tr>
<tr>
<td>WC17-114</td>
<td>To fit over Collar of Flexible WC Connector</td>
</tr>
</tbody>
</table>

Anti Cross-Flow and Rodent Barrier Valve

- Deters rodents from entering building through WC
- For use with any McAlpine rigid or flexible WC connector with 4”/110mm rubber outlet seal
- Can be installed in horizontal or vertical position

WC Connector Wall Flange

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<tr>
<td>WC17-90</td>
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<td>WC17-110</td>
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<td>WC17-114</td>
<td>To fit over Collar of Flexible WC Connector</td>
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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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>FPKIT-3</td>
<td>WC Frame Connector Kit</td>
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