WC Connectors
MACFIT, Flexible and Rigid
WC Connectors

WC Connectors General
- **MCA 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

**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

**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

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

- Code: MAC-1-BTW
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.

<table>
<thead>
<tr>
<th>WC-F26R</th>
<th>WC-F23R</th>
<th>WC-F18R</th>
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<tbody>
<tr>
<td>170mm → 410mm</td>
<td>140mm → 290mm</td>
<td>100mm → 160mm</td>
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<tr>
<th>WC-F26SV</th>
<th>WC-F23SV</th>
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<td>170mm → 410mm</td>
<td>140mm → 290mm</td>
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<td>180mm → 380mm</td>
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<td>170mm → 410mm</td>
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<td>100mm → 160mm</td>
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<th>WC-F23SV</th>
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</thead>
<tbody>
<tr>
<td>180mm → 380mm</td>
<td>150mm → 280mm</td>
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**Flexible WC Connectors**
### 90° Flexible WC Connectors

<table>
<thead>
<tr>
<th>97-107mm Inlet 4&quot;/110mm Outlet</th>
<th>97-107mm Inlet 4¾&quot;/110mm Outlet 1¼&quot; Universal Vent Boss</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Closed</strong></td>
<td><strong>Extended</strong></td>
</tr>
<tr>
<td>190mm</td>
<td>270mm</td>
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<tr>
<td>Code WC-CON8F18</td>
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<table>
<thead>
<tr>
<th>110mm Inlet 4½&quot;/110mm Outlet</th>
<th>110mm Inlet 3½&quot;/90mm Outlet</th>
</tr>
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<tbody>
<tr>
<td><strong>Closed</strong></td>
<td><strong>Extended</strong></td>
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<tr>
<td>95mm</td>
<td>195mm</td>
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<td>Code EXT-A-F</td>
<td>Code EXTB-F</td>
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### Flexible Extensions for WC Connectors

<table>
<thead>
<tr>
<th>97-107mm Inlet 110mm Plain End Outlet</th>
<th>97-107mm Inlet 110mm Plain End Outlet 1½&quot; Universal Vent Boss</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Closed</strong></td>
<td><strong>Extended</strong></td>
</tr>
<tr>
<td>160mm</td>
<td>380mm</td>
</tr>
<tr>
<td>130mm</td>
<td>260mm</td>
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<tr>
<td>WC-F26P</td>
<td>WC-F23P</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>110mm Inlet 4½&quot;/110mm Outlet</th>
<th>110mm Inlet 3½&quot;/90mm Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Closed</strong></td>
<td><strong>Extended</strong></td>
</tr>
<tr>
<td>170mm</td>
<td>380mm</td>
</tr>
<tr>
<td>140mm</td>
<td>260mm</td>
</tr>
<tr>
<td>WC-F26PV</td>
<td>WC-F23PV</td>
</tr>
</tbody>
</table>

### Fully extended position and closed position
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

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

Patents pending
Rigid WC Connectors

- Dimensional leaflet available on request

<table>
<thead>
<tr>
<th>Type</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Code</th>
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<tbody>
<tr>
<td>Straight</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON1</td>
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<tr>
<td>Straight with Vent Boss</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON1V</td>
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<tr>
<td>Straight Adjustable Length</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON2</td>
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<tr>
<td>Straight Adjustable Length Adjustable</td>
<td>97-107mm</td>
<td>3½&quot;/90mm</td>
<td>WC-CON2B</td>
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<tr>
<td>Straight Adjustable Length Adjustable Plain</td>
<td>97-107mm</td>
<td>110mm</td>
<td>WC-CON3</td>
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<tr>
<td>20mm Offset</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON4</td>
</tr>
<tr>
<td>40mm Offset</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON4A</td>
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<tr>
<td>20mm Offset Adjustable Length</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON4B</td>
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<tr>
<td>20mm Offset Adjustable Length Adjustable</td>
<td>97-107mm</td>
<td>3½&quot;/90mm</td>
<td>WC-CON5B</td>
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<tr>
<td>10mm Offset Adjustable Length Adjustable</td>
<td>97-107mm</td>
<td>110mm</td>
<td>WC-CON5</td>
</tr>
<tr>
<td>14° Angle Adjustable Length</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON6</td>
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<tr>
<td>14° Angle Adjustable Length Adjustable Plain</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON7</td>
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<td>14° Angle Adjustable Length Adjustable Plain</td>
<td>97-107mm</td>
<td>3½&quot;/90mm</td>
<td>WC-CON7A</td>
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<td>14° Angle Adjustable Length Adjustable Plain</td>
<td>97-107mm</td>
<td>110mm</td>
<td>WC-CON8</td>
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<tr>
<td>45° Angle</td>
<td>97-107mm</td>
<td>4&quot;/110mm</td>
<td>WC-CON16</td>
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</table>
Rigid WC Connectors

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

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

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

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

90° Bend Adjustable Length
with Vent Boss
97-107mm Inlet
110mm Plain End Outlet
Code WC-CON9V

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

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

Extension Pieces

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

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

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

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

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

**Overall length of telescopic socket extension piece**

133mm

**Code**

WC-CON-EXT

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**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 McAlpine rigid or flexible WC connector with 4”/110mm rubber outlet seal
- Can be installed in horizontal or vertical position

<table>
<thead>
<tr>
<th>Code</th>
<th>ARB-1</th>
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</table>

Open position  
Closed position

WC Connector Wall Flange

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

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 |