



Description	Code
Monoblocco connector for 10mm PB pipe	28100318
Monoblocco connector for 15mm PB pipe	28100330

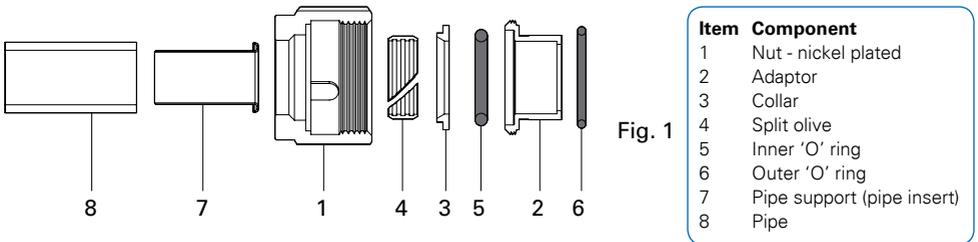
Emmeti Monoblocco Connectors 10mm & 15mm PB Pipe Installation Instructions

Monoblocco Connectors - 10mm & 15mm PB Pipe

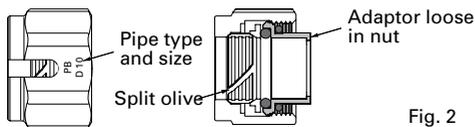
Introduction

These Emmeti Monoblocco connectors are intended for use with polybutylene (PB) or cross-linked (PEX) pipes of 10mm and 15mm nominal outside diameter which use an internal pipe support supplied by the pipe manufacturer, used in accordance with the pipe manufacturers instructions.

These installation instructions describe how to connect the PB or PEX pipes to Emmeti manifolds or threaded fittings using Monoblocco 24 x 19 connectors shown above.



Visual Inspection



Before installing check the monoblocco 24 x 19 connectors visually to confirm:

- The connector is the correct one for the pipe and the right diameter.
- The adaptor (2) is present and loosely retained in the nut.
- The black 'O' rings (5) & (6) are visible and in position.
- The split olive is present, loosely retained at the end of the nut as shown in Fig. 2.

Making a Joint

The pipe should be cut using the appropriate plastic pipe cutter recommended by the pipe manufacturer.

The cut must be perpendicular to the axis of the pipe.

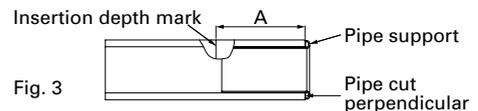
A hacksaw, wheeled tube cutter or knife should NOT be used to cut the pipe as these may leave a roughened or out of square end.

The end of the pipe should be smooth, debris and burr free.

Inspect the external surface area of the pipe which is to be inserted inside the nut to ensure that there are no cuts or abrasions as these may prevent the internal 'O' ring (item 5, Fig. 1) from sealing and cause a leak.

The pipe support (sometimes called the pipe insert or pipe sleeve) provided by the manufacturer of the pipe, must be fitted into the cut end of the pipe and pushed fully in. The length of the inserted pipe support must be at least 20mm (as per the insertion depth mark) in length for the monoblocco system to work correctly see Fig.3.

It is recommended that the pipe insertion depth is marked on the end of the pipe as a guide to ensure that the pipe and pipe support are fully located in the adaptor (2) before tightening the nut.



The table gives insertion depths which correspond to the actual depth in the nut and adaptor.



Nominal Pipe Diameter	Correct Insert Depth - 'A'
10mm	20mm
15mm	20mm

02001012-20 - Termec Room Thermostat

Making a Joint (Continued)

The joint is made by locating the pipe in the nut and pushing the pipe and pipe support firmly into the nut until it comes to a firm halt and the insertion depth mark is just visible flush with the nut, see Fig. 4.

Resistance will be felt as the split olive and inner 'O' ring make contact with the outside diameter of the pipe.

To complete the joint and attach it to the manifold or threaded fitting, present the pipe with fittings to the male thread and hand tighten.

Use a 27mm A/F spanner or adjustable spanner tighten the nut until a resistance is felt. This is approximately $\frac{1}{2}$ to $\frac{3}{4}$ of a turn which is the point when the split in the olive has closed, see Fig. 5.

Excessive effort beyond this point should not be used as it may damage the joint and does not improve sealing.

If a number of pipes are being connected to a manifold with limited spacing between each port, connect the pipes in sequence starting with the first port at one end of the manifold and work towards the other end.

A dedicated spanner is available from Emmeti, product code 01306064 or 01306046, which allows connections to be made out of sequence.

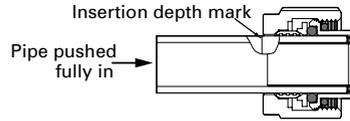


Fig. 4

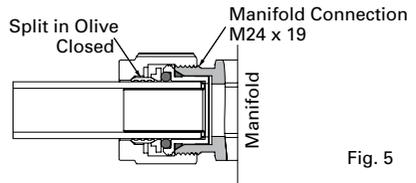


Fig. 5

Disconnecting a Joint

Before disconnecting a manifold joint isolate both the flow and return manifolds, or using the valves on each manifold, isolate the individual pipe.

When disconnecting the joint the pipe will be full of liquid so have a container available to empty the liquid, to minimise any spillages.

Unscrew the nut from the manifold using a 27mm A/F spanner and then continue by hand.

If disconnecting the joint is only temporary do not disturb the adaptor (2), collar (3) and split olive (4) on the pipe and reconnect to the manifold as described earlier.

If removal of the Monoblocco connector is necessary, e.g. if the connector has been damaged, then dismantle the connector as follows:

Once the pipe and nut assembly are free from the manifold and the pipe as been drained, remove the pipe from the nut by holding the pipe and rotating the nut clockwise when viewed from the open end of the nut.

The adaptor (2), collar (3) and split olive (4) should still be attached to the pipe.

Slide the adaptor (2), collar (3) and the 'O' rings (5&6) upwards by hand or gently using pliers if needed, see Fig. 6.

The split olive should be taken off by opening the split and removing it. Do not slide it along the pipe as this might damage the surface of the pipe.

Then slide the nut upwards off the pipe.

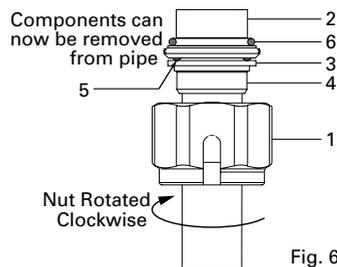


Fig. 6

Re-making the Joint

Emmeti strongly recommend that the complete Monoblocco connector is replaced if it has been dismantled.

No spare parts are available to refurbish the Monoblocco connector.

Remake the joint following the procedure described in 'Making a Joint'.

Only use genuine Emmeti spares when replacing damaged items.

Potable Water

The Emmeti Monoblocco connectors are WRAS approved products when used with Emmeti manifolds.

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