



Manifolds & Water Temperature Controls

Polypipe offers a broad range of manifold and water temperature controls for both traditional and underfloor heating applications.

Manifolds are used in all underfloor heating systems above 30m² irrespective of floor type. Manifolds are supplied complete and fixed with a wall mounting bracket. The manifold comes complete with a drain and air vent assembly, which can be positioned on either end of the manifold, and isolation valves are supplied separately for the supply end of the manifold.

We offer a range of 15mm push fit manifolds for use with 12mm and 15mm pipe systems and compression manifolds for use with our 16mm and 18mm pipe systems.

Each Polypipe manifold includes a flow meter on each flow port to provide a visual indicator of the flow through rate of each circuit.

Polypipe also offers a range of water temperature control units. These are used to reduce the water temperature for underfloor heating systems, when connected to the same boiler used for radiators or stored hot water, which operate at higher temperatures than underfloor systems.

Preparing and installing the manifold

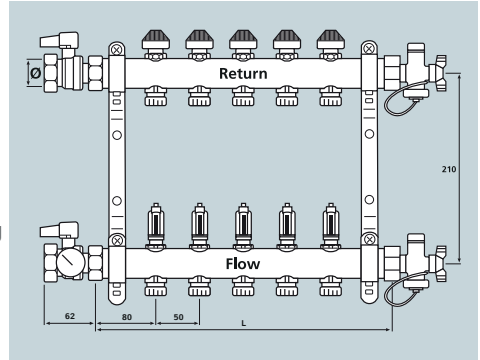
Remove the manifold from the box and arrange the flow and return manifolds to ensure that the inlets/outlets are pointing downwards. Remove the air vent and drain valve from the packaging and connect to the desired end of the manifold.

Ensure the seal is correctly in place before tightening the compression nut by hand on to the manifold. To ensure the valves are securely connected to the manifold, use a 38mm spanner or wrench to tighten by a further half turn.

Remove the isolating valves (supplied separately) from the packaging and connect to the opposite end of the manifold. As with the air vent and drain valve, ensure the seal is correctly in place before tightening the compression nut by hand on to the manifold. Then, complete the connection by using a 38mm spanner or wrench to tighten by a further half turn.

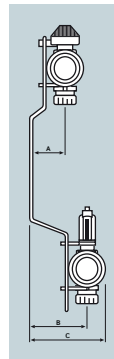
Fix the manifold horizontally in the desired position utilising both screw holes on each bracket.

The manifold is now in position and ready to be connected to the mains from the boiler and the underfloor heating pipe circuits. A set of self adhesive stickers are included to help identify each circuit on the manifold. The stickers also provide the opportunity to record the number of turns required for the correct flow rate through each circuit (for further information on testing and commissioning see page 109).



Outlets	2	3	4	5	6	7	8
L (mm)	190	245	300	355	410	465	520

Outlets	9	10	11	12	13	14
L (mm)	575	630	685	740	795	850



Outlets	1"
A (mm)	39
B (mm)	64
C (mm)	86

Water temperature controls

The Manifold Control Pack provides temperature control and circulation for Floor Heating Manifolds serving areas of up to 140m² (14Kw).

The assembled pack can be installed on either end of the manifold and accurately controls supply temperatures to the manifold between 35°C and 60°C. This pump pack is fully compliant with EUP regulations and has an EEI (energy efficiency index) of less than 0.23.

Assembly and installation

Step 1:

Assemble all components (1 to 6) to the Isolation Valves (PB01732) as shown in left hand or right hand as required.

Step 2:

Connect the assembled Unit and Isolation Valves to the Flow and Return Manifolds.

Pipework connections

Step 1:

Connect the heating Flow and Return Pipes as shown. These connections are 3/4" BSP Connections. Use Polyplumb PB4322 Male BSP adaptor (not included).

Step 2:

Connect the 22mm Zone Valve to the Flow pipework.

Commissioning

Step 1:

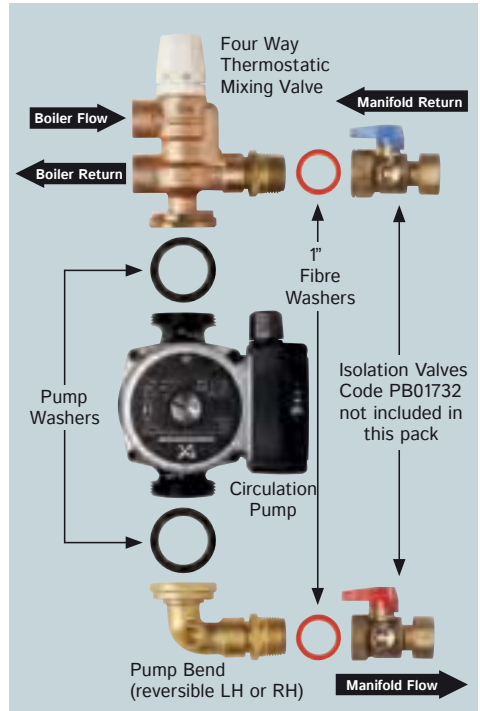
Ensure that the pipework and Pump are fully vented.

Step 2:

Set the Pump at Speed. Speed Two is recommended for initial setting.

Step 3:

If serving a solid floor, set the temperature on the mixing valve to minimum and increase by 5°C per day until the desired temperature is reached. For other floor systems set the temperature of the mixing valve to the design temperature.



Manifold bends (PB12735)

The water temperature control packs can be fitted at 90° to the manifold using the manifold bends. This allows manifolds and pump units to be corner mounted where space is at a premium, e.g. in an understairs cupboard.

