

Underfloor Manifold

Product Specification – FAR and Watts

FAR Manifold

Product Features

- ✓ Modular Manifolds
- ✓ Chrome Plated Brass Components.
- ✓ Maximum working pressure 10 Bar.
- ✓ DN20 or 3/4" pipe connections.
- ✓ Integral flow meters, temperature gauges and AAV's as standard.
- ✓ 0 – 5 L/min flow meters.
- ✓ Isolating valves for each port.
- ✓ 2, 3 and 4 port modules available for creating custom configurations.
- ✓ By Pass components available
- ✓ Individual thermo-electric actuators for each loop available (230 or 24V).
- ✓ Fixed point or modulating mixing and pumping stations available.
- ✓ Only 4° C temperature head required for FAR mixing station.
- ✓ Fixing Brackets as standard

Product Specification

Supply and install FAR off-set full bore high flow underfloor heating manifolds to ensure low pressure loss operation. The manifolds are to be supplied as pre-assembled, chrome-plated, flanged 1" brass distribution manifolds for supply of water flow to the heating loops and similar for the returning water from the heating system via a return manifold.

As standard manifolds shall consist of isolation valves, drain/fill valves, AAV's, flow and return ports complete with flow indicators and balancing valves, thermometers, and fixing bracket. Manifolds to be installed in a wall mounted cabinet via supplied brackets. The pressure test, set up on the underfloor loops, can be removed and the pipework cut to the correct length to enable connection to the manifold. Ensure any loop indication markings are transposed to the lower section of pipe prior to cutting the pipe.

Ensure ¾" Eurocone Multitubo Composite or PE-RT pipe connectors are used when connecting the underfloor pipe to the manifold.

When filling the system, ensure the manufacturer's instructions for flushing and filling the underfloor pipe loops and manifold are adhered to using a suitable flushing cart or main supply pressure. Ensure an adequate flow rate is achieved to ensure the complete removal of trapped air. Inhibitor, such as Fernox, must be added to the system at the required dosage upon completion of filling the system. It is necessary to ensure the system is checked annually confirming system pressure and addition of inhibitor.

Optional Extras Specification:

Fixed Point Mixing:

Each manifold shall be supplied with FAR Fixed Point Mixing Station complete with circulation pump, connected to the supply side of manifold to provide tempering of primary temperature water to a suitable temperature for injecting in the underfloor heating pipe work. The primary pipe work connection to the mixing station is via 2x ¾" ball valves.

Modulating Mixing:

Each manifold shall be supplied with a FAR Modulating Mixing Station complete with a 3 point tri-state actuator that can be connected to the BMS to provide control of the secondary flow temperature in the underfloor heating network. The mixing station shall also consist of a circulation pump and shall be connected to the supply side of manifold to provide tempering of primary temperature water to a suitable temperature for injecting in the underfloor heating pipe work. The primary pipe work connection to the mixing station is via 2x ¾" ball valves.

Actuators:

Each manifold port is to be fitted with a FAR 230V/24V actuator to allow individual control of each loop. The actuators are to terminate at a wired control relay box and each zone of the control relay box connected back to the zone thermostats.

Watts Underfloor Manifold Specification

Product Features

- ✓ Brass Components.
- ✓ Maximum working pressure 10 Bar.
- ✓ DN20 or 3/4" pipe connections.
- ✓ Integral flow meters, temperature gauges and AAV's as standard.
- ✓ 0 – 4 L/min flow meters.
- ✓ Isolating valves for each port.
- ✓ 15° C temperature head required for fixed point mixing station.
- ✓ 4 - 12 port modules available.
- ✓ 1 port extensions available.
- ✓ By Pass components available.
- ✓ Individual thermo-electric actuators for each loop available (230 or 24V).
- ✓ Fixed point mixing and pumping station available.
- ✓ Fixing Brackets as standard

Product Specification

Supply and install Watts 1" brass underfloor heating manifolds. The manifolds are to be supplied as pre-assembled, brass distribution manifolds for supply of water flow to the heating loops and similar for the returning water from the heating system via a return manifold.

As standard manifolds shall consist of isolation valves, drain/fill valves, AAV's, flow and return ports complete with flow indicators and balancing valves, thermometers, and fixing bracket. Manifolds to be installed in a wall mounted cabinet via supplied brackets. The pressure test, set up on the underfloor loops, can be removed and the pipework cut to the correct length to enable connection to the manifold. Ensure any loop indication markings are transposed to the lower section of pipe prior to cutting the pipe.

Ensure 3/4" Eurocone Multitubo Composite or PE-RT pipe connectors are used when connecting the underfloor pipe to the manifold.

When filling the system ensure the manufacturer's instructions for flushing and filling the underfloor pipe loops and manifold are adhered to using a suitable flushing cart or main supply pressure.

Inhibitor, such as Fernox, must be added to the system at the correct dosage upon completion of filling the system. It is necessary to ensure the system is checked annually confirming system pressure and addition of inhibitor.

Optional Extras Specification:

Fixed Point Mixing:

Each manifold shall be supplied with Watts fixed point mixing station complete with circulation pump connected to the supply side of manifold to provide tempering of primary temperature to a suitable temperature for injecting in the underfloor heating pipe work. The primary pipe work connection to the mixing station is via 2x 1" BSP connections.

Actuators:

Each manifold port is to be fitted with a 230V/24V actuator to allow individual control of each loop. The actuators are to terminate at a wired control relay box and each zone of the control relay box connected back to the thermostats.

Custom manifold configurations are available on request to suite project specific requirements.