

Emmeti Product Focus

SLM Topway Manifold for single zone underfloor heating applications



SLM Single Loop Manifold 01296712 with T3 control set, U9700020



Alternative T3 control set with electrothermic actuator, U9700030

SLM Single Loop Manifolds

Based on the tried and tested Emmeti Topway T2 manifold, the SLM Single Loop Manifold offers the same feature-rich solution to underfloor heating in a compact single way manifold for use in single zone applications.

Typically, the manifold would be used for adding an underfloor heating circuit in a conservatory or extension either to an existing high temperature radiator system or as an independent circuit from the heat source.

It is designed to allow the connection of an underfloor heating circuit with individual time and/or temperature control of the circuit. Using an Emmeti T3 Control Set with the SLM Single Loop Manifold will allow the primary flow and return temperature to be controlled to a temperature suitable for underfloor heating if a low temperature heat source is not being used. A specially designed T3 control set incorporating an integrated electrothermic actuator has been developed for single zone applications allowing the boiler and pump to be switched on without the additional cost and complexity of an underfloor heating wiring centre.

The SLM manifold is equipped with an electrothermic valve body for use with Emmeti standard electrothermic heads which permit electrical control of the circuit either by a programmable or standard thermostat. Used with a four-wire electrothermic head which includes an auxiliary switch, this also allows electrical interlock with the boiler and pump as required by the Building Regulations. Emmeti's range of zone controls are designed to complement the operation of the manifold and provide a complete solution for single zone applications.

The SLM manifold is pre-assembled and supplied with two offset mounting brackets spaced at 210mm centres, Techno-Varia automatic air vents and end caps supplied for fitting to each manifold rail and a flow meter fitted to the upper rail which allows both flow adjustment and manual on-off isolation without affecting the flow setting.

Specification

Construction

- Manifold distribution headers and accessories are nickel plated.
- Brass header formed through a bar drawing process EN 12168 CW614N.
- Seals in EPDM

Technical Data

- Maximum operating temperature 110 °C
- Maximum working pressure 10 bar
- Inlet manifold threads G1
- Takeoff threads M 24x19

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Single Loop Manifold



Size	Ways	Pcs./Pack	Code
1"	1	1	01296712
T3 Control Set, thermostatic mixing valve		1	U9700020
T3 Control set, thermostatic mixing valve and actuator		1	U9700030

Flow rail has a white sleeved 0 - 4 l/min flowmeter. Return rail has a blue capped integrated electrothermic body (ready for the head). Note that the flow rail is uppermost

Pre-assembled manifold is mounted onto a double offset bracket. The accessories include no.2 drain-off/fill valves; no. 2 automatic air-vents; no. 2 blanking plugs supplied loose in the packaging.

To change the flowmeter flow capability range, please refer to Manifold Accessories on our website (www.emmeti.co.uk), or in our pricelist.

For ball valves and other accessories, please refer to Manifold Accessories section on our website (www.emmeti.co.uk), or in our pricelist.

For zone controls and electrothermic heads, please refer to the Zone Controls section on our website (www.emmeti.co.uk), or in our pricelist.

T3 Control Set Notes

Designed specially for the underfloor heating market, the U9700020 control set incorporates a compact thermostatic mixing valve and pump set arrangement compatible with T2 Topway manifolds, including the SLM Manifold at 210mm ctrs. with 1" M manifold connections with o-ring sealing and 1" M connections for the primary flow and return to the control set.

The valve and fittings are finished in nickel plate to match the Topway manifold.

Valve kvs 3.4. Temperature range adjustment 35°C - 60°C. Grundfos UPS 25-60 pump.

Using a similar specification to the U9700020 control set, the U9700030 thermostatic mixing valve incorporates a thermal actuator which, when de-energised, shuts off the flow of hot water through it to the underfloor heating manifold. The actuator incorporates an auxiliary switch to operate other equipment e.g. boilers.

This enables the control set to be used in four different applications:

1. Isolation of the manifold when the pump and valve are de-energised.
2. Where an additional level of temperature control is required to ensure that a maximum floor temperature is not exceeded. This requires a suitable safety thermostat - see Manifold Accessories on our website (www.emmeti.co.uk), or in our pricelist.
3. Single zone applications where a minimum water temperature is required to switch the zone on. This also requires a suitable thermostat - see Zone Controls on our website (www.emmeti.co.uk), or in our pricelist.
4. Single zone applications where the actuator auxiliary switch energises the boiler and primary pump in conjunction with an existing controls system for heating and hot water.

The valve is finished in brass and the fittings are nickel-plated to match the SLM Topway manifold.

Electrothermic head NC 4-wire. Valve kvs 3.4. Temperature range adjustment 35°C - 70°C. Grundfos UPS 25-60 pump

Both sets includes as standard a temperature gauge measuring the mixed flow temperature and a supporting bracket to stabilise the extra weight of the pump and have the same compact overall dimensions as the range. For full technical details of the complete T3 control sets range, see pages 17-19 in this document.