MANIFOLDS AND THERMOSTATS FOR RADIANT PANEL SYSTEMS

9001 – Manifolds for radiant panel systems

FUNCTION:

Our manifold series 9001 has been designed to allow an easy and quick installation and to obtain an optimal distribution of the fluid in the circuits of radiant panel heating systems.
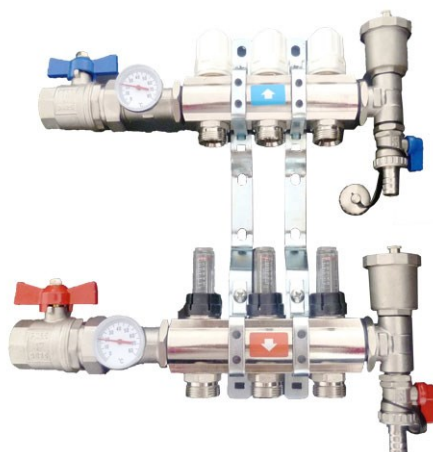

SPECIFICATIONS:

Brass nickel-plated manifold with:
- 1 flow manifold with built-in flow meters and flow rate regulating valves (from 0 to 5 l/min).
- 1 return manifold with built-in manual shut-off valves (with knob) suitable for electro-thermal actuators.
- 2 ball shut-off valves (female inlet 1"), either straight or 90º angle, with blue and red handles.
- 2 union fittings, with swivel nuts, with thermometers.
- 2 automatic air vents.
- 2 ball fill/drain valves with blue and red handles.
- Galvanized isophonic brackets for use with boxes 9005.
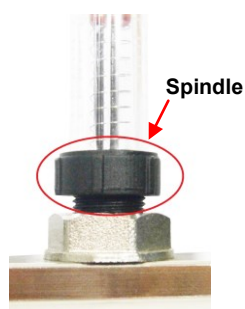- Circuit outlets 3/4" M euroconus.
- From 2 to 12 circuits.

The entry of the pipes can be changed easily to the left or right side.

Maximum working conditions: 70ºC, 6 bar.

INFORMATION ABOUT THE BUILT-IN FLOW METERS AND FLOW RATE REGULATING VALVES:

The flow manifold is equipped with built-in flow meters that allow an easy regulation of the flow rate and its direct reading due to the scale printed on the flow meter itself. It is not necessary to use other expensive or complicated methods (measuring equipment, diagrams or pictures) to read the flow rate.

Spindle

To regulate the flow rate, lift the locking cover to turn the spindle. Hold and turn the spindle, not the transparent part. The flow rate increases as the spindle is turned counterclockwise.

The locking cover is used to lock the flow meter at the desired flow rate and it can be sealed using its ears.

Locking cover

ACCESSORIES:

9002-02/230V – <u>Electro-thermal actuator 230V (AC/DC)</u>
(Click mounting).

9002-02/24V – <u>Electro-thermal actuator 24 (AC/DC)</u>
(Click mounting).

Euroconus 3/4" fitting

9003-01 <u>for PEX pipes 16 x 1,5.</u>
9003-03 <u>for PEX pipes 16 x 1,8.</u>
9003-05 <u>for PEX and multilayer pipes 16 x 1,8 and 16 x 2,0.</u>
9003-04 <u>for multilayer pipes 18 x 2,0.</u>
9003-02 <u>for PEX and multilayer pipes 20 x 1,9 and 20 x 2,0.</u>

ATTENTION! Use a calibrating tool to calibrate and chamfer the inside of the multilayer pipes in order not to damage the O-Rings of the fittings.

9005 – Box for manifolds

- Made of painted steel sheet with anti-corrosion protection.
- Adjustable depth (140-170mm).
- Closure with a push-fit clamp.
- We recommend to install the manifolds inside the box in order to:
  · Prevent mishandling by unqualified personnel.
  · Acoustic isolation of the sound of the water circulation.

THERMOSTATS TO CONTROL THE ELECTRO-THERMAL ACTUATORS

9006-10 – <u>Electronic heating thermostat:</u>

- Internal NTC sensor of the ambient temperature.
- Possibility of connecting an external NTC floor sensor (not included) to limit the floor temperature.
- Limitation range: 30°C, 40°C or 55°C adjustable.
- Switch ON/OFF. LED light to indicate ON.
- Voltage: 230 V.
- Power consumption: 3,5 W.
- Setting range: 10 ~ 55ºC.
- Switch differential: ±1ºC.
- Ambient temperature: -5 - 50ºC.

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9006-11 – <u>Programmable heating thermostat with LCD screen</u>

- LCD backlight screen that turns off after a few seconds without operating the thermostat.
- Internal NTC sensor of the ambient temperature.
- Possibility of connecting an external NTC floor sensor (not included) to limit the floor temperature.
- 6 preset programs. Option to modify the program by the user.
- 24-event everyday and weekly programming.
- Manual mode and program mode.
- Switch ON/OFF.
- Voltage: 230V
- Power: 2W.
- Setting range: 5~45ºC.
- Switch differential: adjustable 0.5-10ºC (factory setting ±1ºC).
- Ambient temperature: -5 ~ 50ºC.
- External limitation: 5~60ºC (factory setting 35ºC).

9006-18 – <u>Wiring centre to control 8 zones, pump and/or boiler</u>

- Wiring centre to control 8 zones (8 thermostats) for radiant panel systems controlled by electro-thermal actuators (up to 4 actuators by thermostat).
- Relay for boiler or zone valve.
- Relay for pump.
- Supply voltage: 230VAC.
- Max. 4A
- Dimensions (mm): 310W x 110H x 58D
- Ambient temperature: 0 - 50ºC.

9006-19 – <u>Wiring centre to control 12 zones, pump and/or boiler</u>

- Wiring centre to control 12 zones (12 thermostats) for radiant panel systems controlled by electro-thermal actuators (up to 4 actuators by thermostat).
- Relay for boiler or zone valve.
- Relay for pump.
- Supply voltage: 230VAC.
- Max. 4A
- Dimensions (mm): 310W x 110H x 58D
  Ambient temperature: 0 - 50ºC.

9006-15 – <u>Programmable wireless thermostat with LCD touch screen</u>

- LCD backlight screen that turns off after a few seconds without operating the thermostat.
- Internal NTC sensor of the ambient temperature.
- 6 preset programs and option to modify the program by the user.
- 24 events every day, 7-day programmable controller.
- Manual mode and program mode.
- Switch ON/OFF.
- Power supply: DC3V, 2 pieces size AA batteries.
- Setting range: 5 ~ 90ºC.
- Switching differential: adjustable 0.5 ~ 5ºC (factory setting: 1ºC).
- Wall surface mounted.
- Effective transmission distance: 200m in empty space.

9006-16 – <u>Wireless receiver (floor sensor optional)</u>

- Possibility of connecting an external NTC floor sensor (not included) to limit the floor temperature.
- External limitation value: 30, 40, 55ºC adjustable.
- With lights to show the working status.
- Voltage: 230 V.
- Power consumption: 2W.
- Ambient temperature: -5~50ºC.

9006-17 – <u>Wireless central controller (8 zones, pump and/or boiler)</u>

- Wireless centre to control 8 zones (8 thermostats) for radiant panel systems controlled by electro-thermal actuators .
- Relay for boiler.
- Relay for pump.
- Voltage: 230VAC.
- Current: Max. 3A.
- Dimensions (mm): 310W x 110H x 58D
- Ambient temperature: -5~50ºC

9006-12 – <u>External NTC floor sensor</u>

- 25ºC=10kOhms. Length: 3m.

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