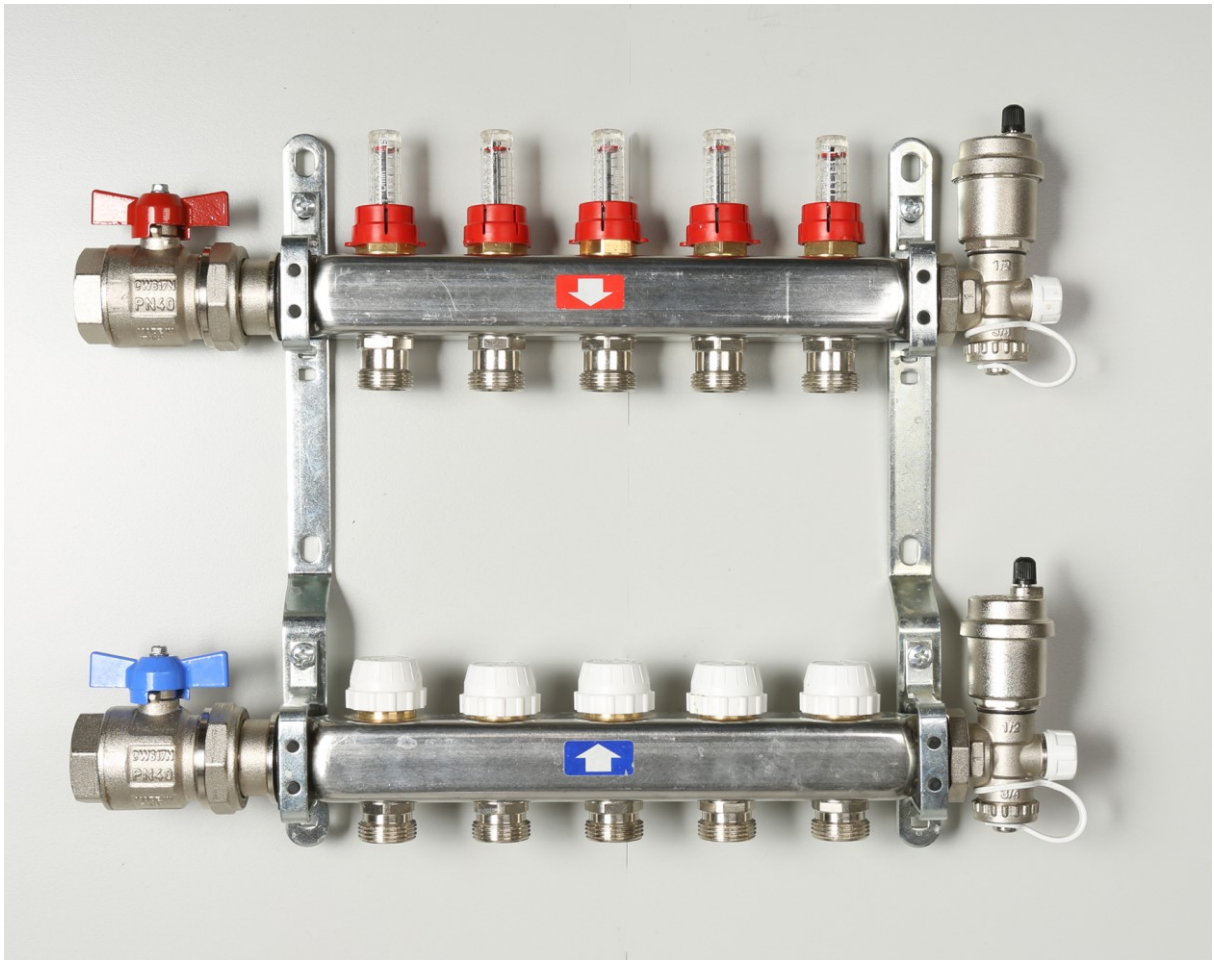
Technical Product Information

Heating Manifold
Manifold Cabinets

Article no. 12202-12212

Article no. 12801-12815



Ill. 1: Heating manifold (5-fold in the illustration)

The high-quality stainless-steel manifold is fully pre-assembled and ready for connection. Designed for two to twelve heating circuits, it satisfies all demands concerning performance and longevity. The manifold valves are prepared for the fitting of WEM Actuators, the factory-fitted dial adjusters are required for commissioning. The air vents provide for the fully automatic venting of the supply and return flows. This increases operational safety and user convenience.

Function	The manifold's supply and return bars are connected to the heating system (one-inch female thread). The individual heating and cooling circuits are fitted to the manifold bars with Euro cone screw connections. The flow meters provide for the adjustment of individual volume flows for each heating circuit (hydraulic balancing).
Installation position	Horizontal, as illustrated. If you invert the manifold (connections to the top), make sure that you turn back the air vents to their original position. You can exchange the supply and return bars. To do this, loosen the screws on the holder.
Benefits	▪ Light-weight and durable manifold bars made of stainless steel ▪ Hydraulic balancing with the well-tried flow meters in the flow ▪ Automatic vent valve on each manifold bar ▪ Fully tested functionality including leakage test ▪ Completely pre-assembled, incl. ball valve and fill-and-drain valve

Technical data

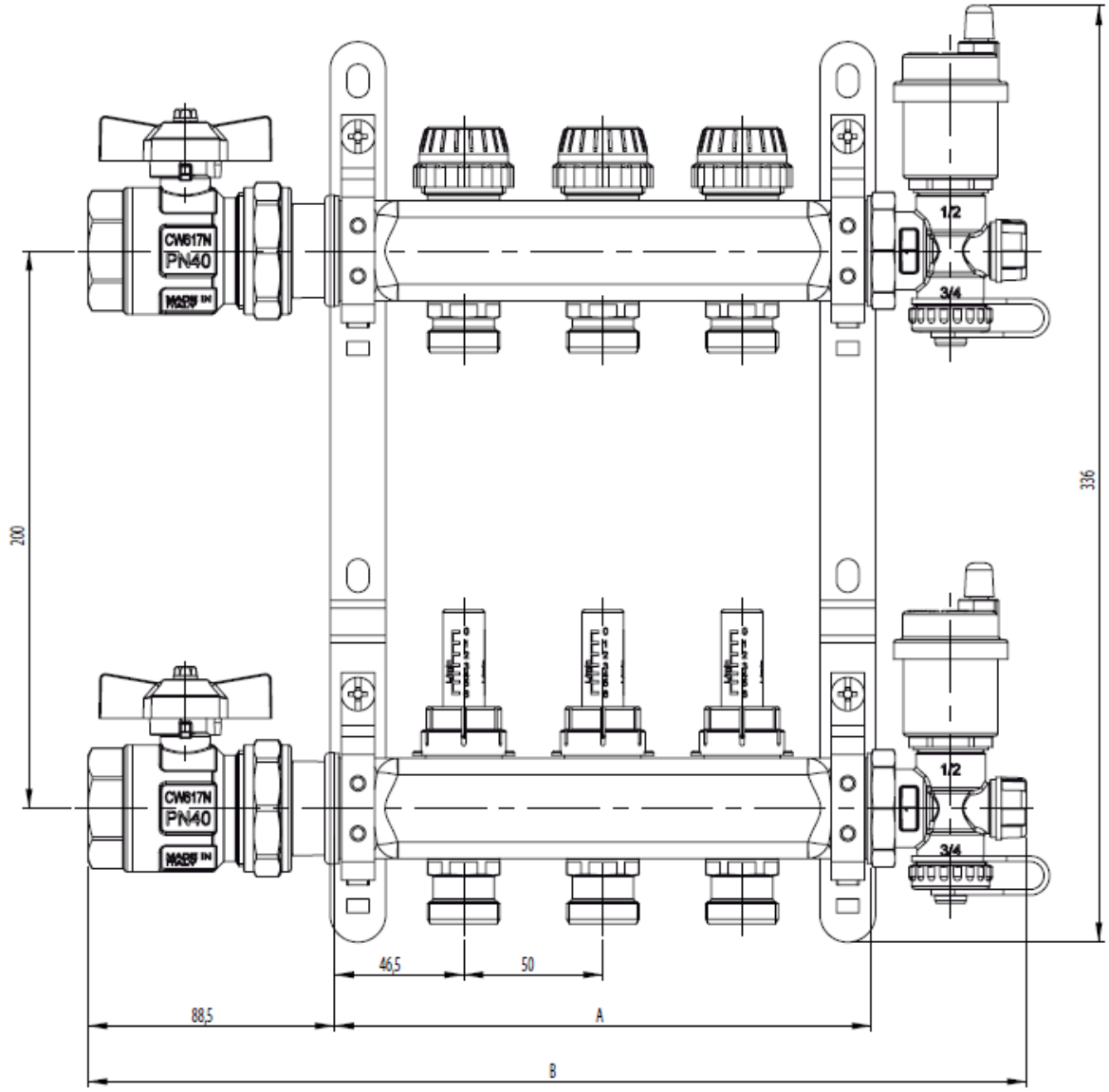
Max. heating medium temp.	70 °C
Max operating pressure	6 bar (for pressure testing, up to 10 bar)
Heating circuit connections	3/4“ Euro cone
Heating section connections	1“ female thread
Volume flows	Adjustable from 0 to 5 l/min for each circuit
Heating medium	Heating water as per VDI 2035; SIA Directive 384/1; ÖNORM H 5195-1

Adjustment of volume flows (hydraulic balancing)

Use the top-mounted flow meters to initially adjust the wall heating circuits. The circulation pump should be running during the adjustment work. Make sure that you open the valves in the heating circuit completely for the adjustment. If required, remove the actuators.

- Start at the flow meter of the heating circuit with the lowest volume flow.
- Pull the red safety ring off the sight glass towards the top.
- Turn the black valve spindle to adjust the calculated volume flow.
- Read the value at the red indicator in the sight glass.
- Push the red safety ring back onto the sight glass.
- Proceed the same way for all heating circuits.
- Check and correct your adjustments as required.

Dimensions:



Heating circuits	Length B
2	287 mm
3	337 mm
4	387 mm
5	437 mm
6	487 mm

Heating circuits	Length B
7	537 mm
8	587 mm
9	637 mm
10	687 mm
11	737 mm
12	787 mm

Manifold Cabinets (article no. 12801-12815)

Manifold cabinet, flush-mounting, white (RAL 9010)

Manifold cabinet, surface-mounting, white
(RAL 9010)

Features:
WEM Manifold Cabinets provide protection for the heating manifold and the pump mixing unit. They are made of high-grade hot-galvanized steel sheet. The compact design ensures stability. The Manifold Cabinets are available in two versions: for surface-mounting and for flush-mounting. Both are coated with impact-resistant powder coating (colour RAL 9010).

Surface-mounted version:

Article no.	Number of heating circuits		Internal dimensions H x W x D in mm
	Manifold[1]	Manifold and pump mixing unit[2]	
12801	2 to 3		665 x 398 x 128
12802	4 to 7	2	665 x 598 x 128
12803	8 to 10	3 to 5	665 x 748 x 128
12804	11 to 12	6 to 8	665 x 898 x 128
12805		9 to12	665 x 1098 x 128

[1]Manifold with ball valve, [2]manifold with pump mixing unit, connections of the risers (ball valves) face the bottom.

Flush-mounted version:

Article no.	Number of heating circuits		Internal dimensions[3] H x W x D in mm
	Manifold[1]	Manifold and pump mixing unit[2]	
12811	2 to 4		665 x 445 x 110 to 160
12812	5 to 6		665 x 545 x 110 to 160
12813	7 to 9	2 to 4	665 x 695 x 110 to 160
12814	10 to12	5 to 7	665 x 845 x 110 to 160
12815		8 to12	665 x 1,045 x 110 to 160

[1]Manifold with ball valve, [2]manifold with pump mixing unit, connections of the risers (ball valves) face the bottom, [3]recess dimensions = internal dimensions + 10 mm