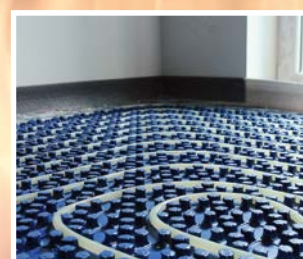
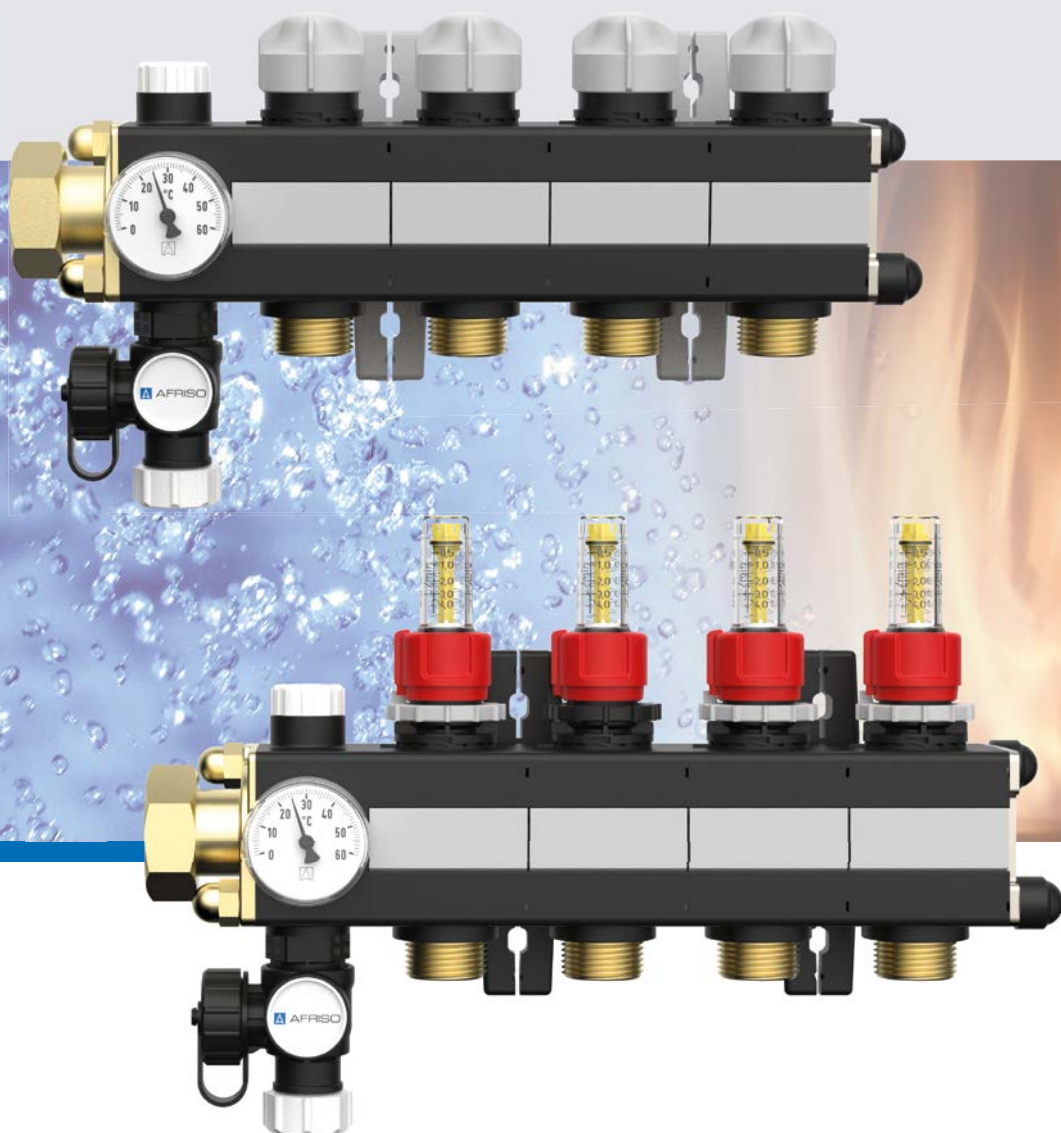


ProCalida® MC 1

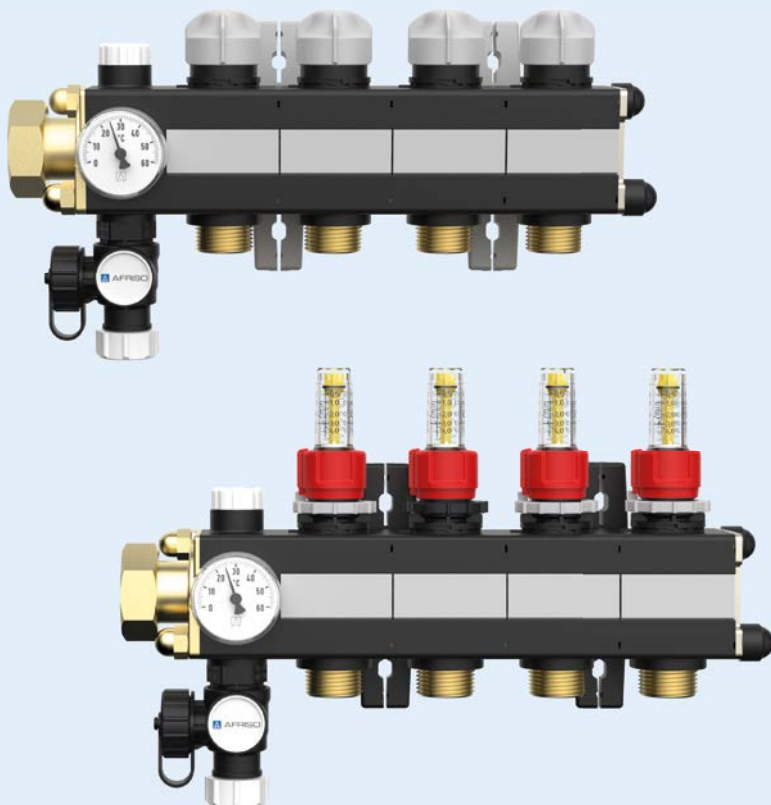
Premium plastic manifold for heating and cooling.



Premium plastic manifold system for surface heating and cooling systems.

Sophisticated technologies that combine simple retrofitting with high reliability are required for uncomplicated heating system replacements and efficient operation of new systems. The ProCalida® MC 1 heating circuit manifolds are backed by decades of expertise and competence in the production of plastic heating components. High-grade plastic materials enable a great variety of technical features and optimum, robust designs for compact and light-weight products. Plastic valves are not susceptible to corrosion and deposits. Thermometers and flow meters are easy to integrate.

The ProCalida® MC 1 manifold, which is specially tailored to heating system modernisation, excels with very good heat loss limitation and a large cross section for optimum supply to the control circuits. The manifold system as per VDI 2035 is suitable for surface heating systems and cooling systems with two to twelve heating/cooling circuits. As condensation is virtually impossible, the manifold is also ideal for heat pumps with a cooling function.



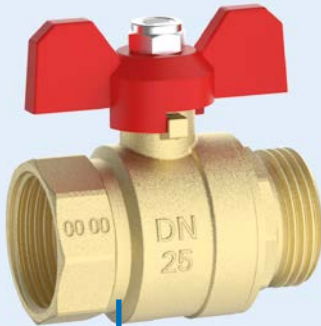
Advantages - your benefits

- + Compact heating circuit manifold made of high-grade plastic with outstanding long-term durability
- + Robust dual-chamber system for optimum heat loss limitation and prevention of condensate for flexible use for heating and cooling
- + Excellent insulation properties: Low heat emission and noise transmission as compared to standard stainless steel manifolds
- + Large cross section for optimum supply of the control circuits
- + Numerous versions: Two to 12 heating circuits, available with flow meter, shut-off valve or dynamic control valve for automatic hydraulic balancing
- + Ready to be connected, pre-assembled and 100 % tightness-tested for easy and reliable installation
- + Four-part wall bracket allows for maximum flexibility with regard to the distance between flow and return
- + Sight glass of flow meter can be cleaned under full system pressure without the system having to be drained
- + Corrosion-resistant for long service life
- + Comprehensive connection accessories and compatible control equipment, also for integration into smart home systems on the basis of EnOcean® wireless

Accessories for manifold systems

Quick air vent (option)

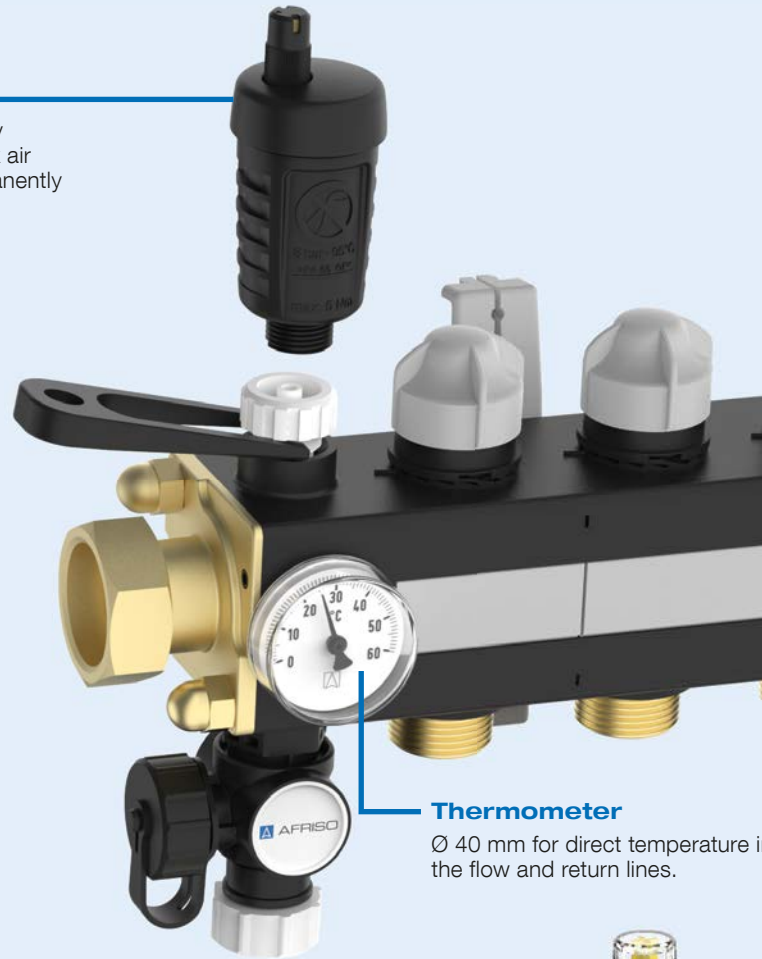
The manual air vent can be easily replaced with an automatic quick air vent using a lifting tool, for permanently deaerated system water.



Ball valve (option)
Flat-sealing



Angular connection set (option)
For bottom connection

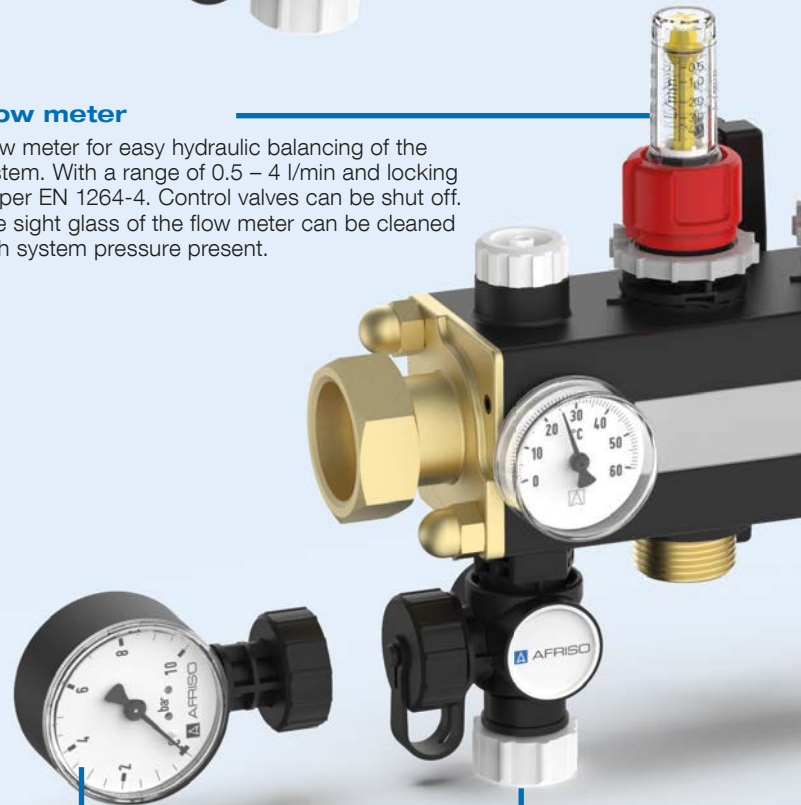


Thermometer

Ø 40 mm for direct temperature in the flow and return lines.

Flow meter

Flow meter for easy hydraulic balancing of the system. With a range of 0.5 – 4 l/min and locking as per EN 1264-4. Control valves can be shut off. The sight glass of the flow meter can be cleaned with system pressure present.



Pressure gauge RF50 (option)

For indication of the system pressure (0/10 bar). Can be screwed directly onto the boiler filling and drain valve KFE. Also suitable for tightness test.

Boiler KFE

Rotatable draining



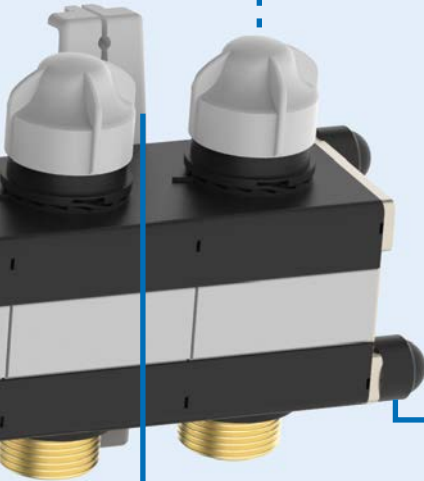
Sustainable production of the ProCalida® MC 1 manifold system in Germany with maximum vertical range of manufacture and the shortest possible transport routes – most of the value added takes place at the headquarters in Güglingen.


Thermostatic actuator TSA 01 (option)

For electronic control of the heating circuits. Ideal for limited space conditions.


Dynamic control valve Vario-DP (option)

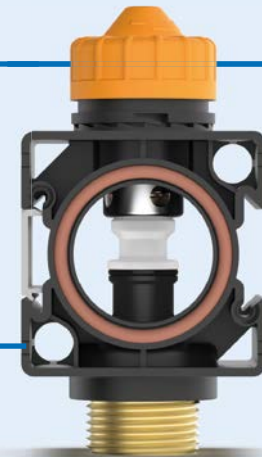
Pre-adjustment of the valve allows for automatic control of the water volume per heating circuit (20 – 340 l/h) and thus for fast, reliable hydraulic balancing. The geometry of valve insert provides protection against unwanted pollution. Flow with shut-off valve instead of flow meter.


Threaded rods

For maximum stability of the manifold bar.

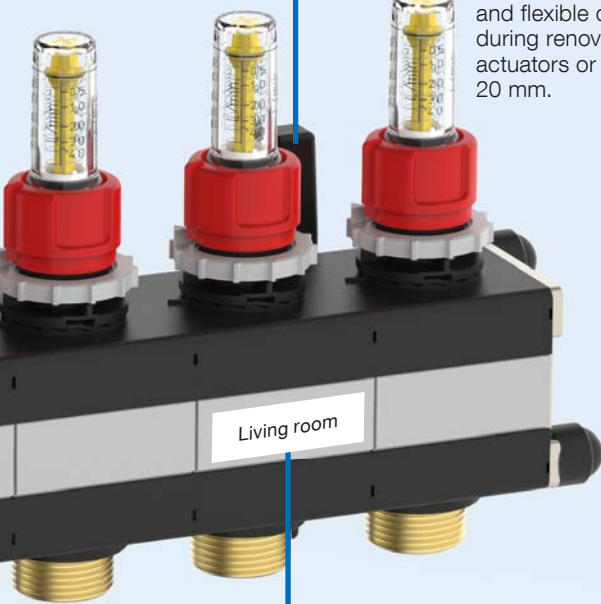
Wall bracket

4 plastic brackets with excellent sound-absorbing properties can be snapped into the dovetail guide of the manifold bar – for collision-free installation and flexible distances between flow and return during renovation, installation of large footprint actuators or use of heating circuit pipes up to 20 mm.


Insulating dual-chamber system

Inside with large cross-section for optimum supply of system water to the control circuits, outside with air cushion for superior heat loss limitation. The use of plastic as the base material virtually eliminates condensation.

ndication in


Designation labels

Prefabricated stickers for labelling the individual heating circuits.

Filling and drain valve

the filling and drain valve for filling, or flushing the complete system.

Technical specifications

Main connection

G1 flat-sealing, with union nut, connection either from right or left

Connection heating/cooling circuit

G $\frac{3}{4}$ male thread, eurocone, suitable for standard compression fittings

Material

Plastic PA6 GF30

Medium











Heating circuit water and cooling water as per VDI 2035 (water/glycol mixtures with an admixture of max. 50 %)

Operating temperature range

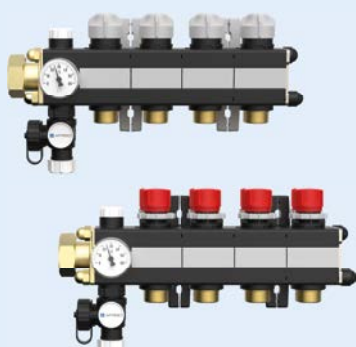
-20/+90 °C at 3 bar

-20/+60 °C at 6 bar

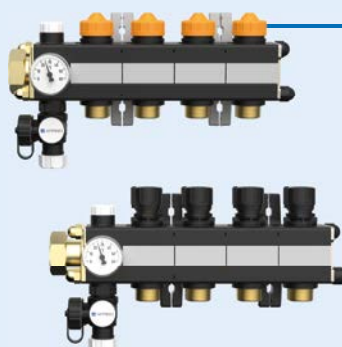
	Number of heating circuits	Part no.	
Version with flow meter	Plastic heating circuit manifold ProCalida® MC 1 2-HK FM	2	77222
	Plastic heating circuit manifold ProCalida® MC 1 3-HK FM	3	77223
	Plastic heating circuit manifold ProCalida® MC 1 4-HK FM	4	77224
	Plastic heating circuit manifold ProCalida® MC 1 5-HK FM	5	77225
	Plastic heating circuit manifold ProCalida® MC 1 6-HK FM	6	77226
	Plastic heating circuit manifold ProCalida® MC 1 7-HK FM	7	77227
	Plastic heating circuit manifold ProCalida® MC 1 8-HK FM	8	77228
	Plastic heating circuit manifold ProCalida® MC 1 9-HK FM	9	77229
	Plastic heating circuit manifold ProCalida® MC 1 10-HK FM	10	77230
	Plastic heating circuit manifold ProCalida® MC 1 11-HK FM	11	77231
	Plastic heating circuit manifold ProCalida® MC 1 12-HK FM	12	77232

Accessories		Thermostatic actuator TSA-01 Connection: union nut M30 x 1.5 mm, AC 230 V, NC	79061		Pump assembly PrimoFloor MS 130 WP ATM	77490
		Thermostatic actuator TSA-02 Connection: union nut M30 x 1.5 mm, AC 230 V, NC	78882		Ball valve set G1 female thread x G1 male thread, set consists of 2 pieces	80835
		Thermostatic actuator TSA 02 FO Connection: union nut M30 x 1.5 mm, AC 230 V, NC, with First Open and Re-Open function	79014		Angular connection set G1 For bottom connection, set consists of 2 pieces	76702
		Controller terminal bar CosiTherm® Basic WB 10 D-8-230	80236		Quick air vent set PrimoVent G³/₈ plastic Set consists of 2 pieces	80833
		Room thermostat RT 10 D-230 V	86062		Standard Bourdon tube pressure gauge RF50 plastic Range 0/10 bar, for connection to boiler filling and drain valve KFE	81276

Further versions of ProCalida® MC 1 are also available



Version SV with shut-off valve



Version with dynamic control valve



Valve insert Vario-DP for automatic hydraulic balancing

AFRISO - more than 150 years of expert knowledge

The company

AFRISO, founded by Adelbert Fritz in Schmiedefeld, Germany in 1869, is an innovative, medium-sized company with a total staff of over 1,300 worldwide, over 650 of which are employed at the four German sites.



Headquarters in Güglingen (Germany)



AFRISO training centre



AFRISO logistics and service centre



Traditionally, we manufacture measuring and control devices for temperature and pressure. For more than 50 years now, we have also been manufacturing measuring, control and monitoring devices and systems for environmental protection:

- Level indicators
- Overfill prevention systems
- Leak detectors
- Fittings for heating systems
- Flue gas analysers

Our leading-edge, market-oriented products and innovations result from our comprehensive know-how, a highly motivated and qualified staff and the fact that we understand what the market needs.

Our portfolio covers everything from a comprehensive range of standardised, proven off-the-shelf products all the way to high-grade customised solutions.

- Research and development
- Tools and equipment making
- Highly versatile and rational production
- Highest quality levels
- National and international approvals

AFRISO stands for leading-edge brand products to meet your requirements.

Environmental management as per ISO 14001 is a matter of course for AFRISO.



For detailed information on our product range, find our online catalogue at www.afriso.com



We ensure that you get professional, personal service. You can reach your contact person on: www.afriso.com/contact

