

ProCalida®

Premium manifold systems for heating, cooling and geothermal systems.



Premium manifold systems for heating, cooling and geothermal systems.

Versatile manifold systems made of plastic.

AFRISO has been manufacturing complex plastic manifolds for leading global vendors of floor heating, cooling and geothermal systems for many years. The know-how, together with our exceptionally high degree of vertical integration including our own tool design allows us to implement even complex geometries to customer specifications. High-grade plastic materials enable a great variety of technical features and optimum, practical

designs. Plastic valves are not susceptible to corrosion and deposits. Thermometers and flow meters are easy to integrate. Our offering is complemented by a comprehensive range of accessories. For decades, experts from the fields of heating, ventilation and air conditioning have been working with AFRISO products under the brands of leading system providers.



Advantages – your benefits

- + Complex, customised manifold systems made of high-grade plastic materials proven over many years
- + For heating, cooling and geothermal systems
- + Numerous combinations in terms of type and number of heating circuits
- + Can be extended at any time thanks to the modular design
- + Pre-assembled, tightness-tested and ready to be connected
- + Excellent insulation properties (low heat emission and noise transmission; suppression of condensate)
- + Corrosion-resistant for long service life
- + Vast array of versions for numerous application scenarios and logistics concepts
- + Can be combined with thermometers, flow meters, thermo-actuators, connection valves and many other components
- + Low weight
- + Simplified logistics
- + Compatible control systems, also for integration into smart home systems based on EnOcean® wireless
- + Sustainable production in Germany with maximum vertical range of manufacture and the shortest possible transport routes – most of the value added takes place at the head quarters in Güglingen

Accessories for manifold systems



Wall bracket

For fast, safe and easy installation of manifold systems.



Quick air vent

For automatic de-aeration of the manifold circuit. Its high, narrow design is perfect in terms of appearance and function. Made of glass-fibre reinforced high-performance plastic; can be mounted directly to the manifold with connection thread and O ring.



Ball valve

Flat-sealing, either plain brass or nickel-plated. With optional thermometer.



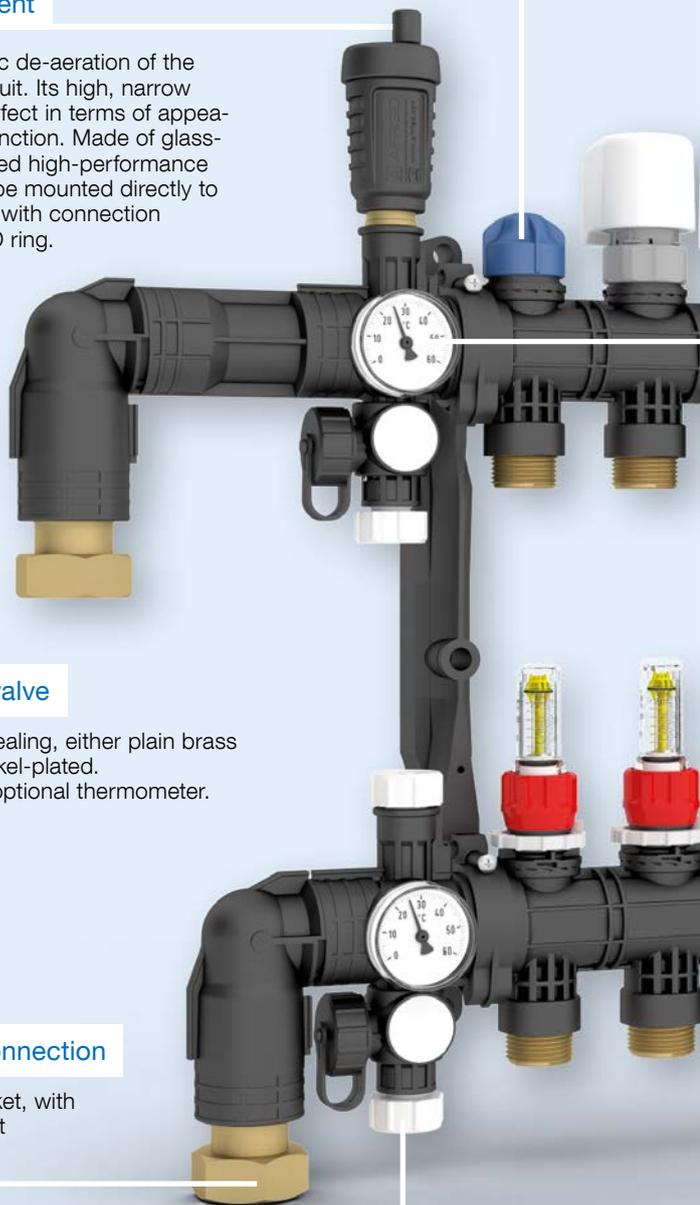
Pump assembly

Distribution pump assembly, application-specific design. With thermometer, shut-off valve, thermostatic mixing valve and thermostat as required.



Boiler filling and drain valve KFE

For filling, draining or flushing the complete system.



Stroke valve

Thermostatic actuators TSA-02 (FO) / 03

For electronic control of hot water valves. Actuators convert the electric signal they receive from room thermostats or thermostats with timers into a valve stroke to control the set temperature by means of the flow rate. With connection cable and union nut for direct connection to the valve or the upper part of the manifold. TSA-02 FO with First Open and Auto Spin function. TSA-03 switches off the pump via the integrated limit switch when all valves are closed.

- As 24 V or 230 V version
- Various housing colours
- Personalised labels (e.g. logo)



Thermometer

From nominal size 40 to 100. Available in various ranges, plastic window. Company logo on request.

Dynamic control valve system Vario-DP

To control the water volume per heating circuit for fast and reliable hydraulic balancing. The geometry of valve insert provides protection against unwanted pollution. High reserve due to very wide adjustment range up to 340 l/h.

Bypass valve

Flow meter DFM

Flow meter for easy hydraulic balancing of the system. Integrated flow meters or shut-off valves as required. With adjustable stop. Sight-glass easy to clean even during operation.



Control valve Vario-DP

Shut-off valve

Flow meter



Room temperature sensor - wired

For the premium living space

Single room temperature controller CosiTherm®

Modular design: Base module, can be combined with two or six independent control circuits. Available as wired or wireless versions.

- For heating and cooling
- Can be extended to up to 18 control circuits
- Combination of wired and wireless modules possible at any time



Room temperature sensor

Wired or wireless versions, extremely flat with a height of just 12.5 mm. With optional humidity sensor (wireless version).



Room temperature sensor - wireless

Numerous versions – some options at a glance



Heating circuit manifold ProCalida® MC 1

Robust, very short plastic heating or cooling circuit manifold with up to 12 heating circuits. Return with stroke valves for actuators, flow with shut-off valves or flow meters as required. Temperature indication at flow and return lines. Main connection with union nut G1. Manual vent, filling and drain valve or quick air vent can be mounted. With dovetail guide at both ends for fast mounting to wall mounting bracket and for maximum installation flexibility.

Heating circuit

Distance: 50 mm
Connection: G $\frac{3}{4}$ eurocone

Operating temperature range

Medium: Max. 60 °C at 6 bar or max. 90 °C at 3 bar



Heating circuit manifold ProCalida® EF 1

Modular, very short plastic heating or cooling circuit manifold with up to 12 heating circuits. Return with stroke valves for actuators, flow with shut-off valves or flow meters as required. Temperature indication at flow and return lines. Main connection with union nut G1. Manual vent, filling and drain valve or quick air vent can be mounted. Flexible connection from left or right as well as from the bottom with a bracket kit.

Heating circuit

Distance: 50 mm
Connection: G $\frac{3}{4}$ eurocone

Operating temperature range

Medium: Max. 60 °C at 6 bar or max. 90 °C at 3 bar



Heating circuit/geothermal manifold ProCalida® IN 1 $\frac{1}{2}$ /GT 1 $\frac{1}{2}$

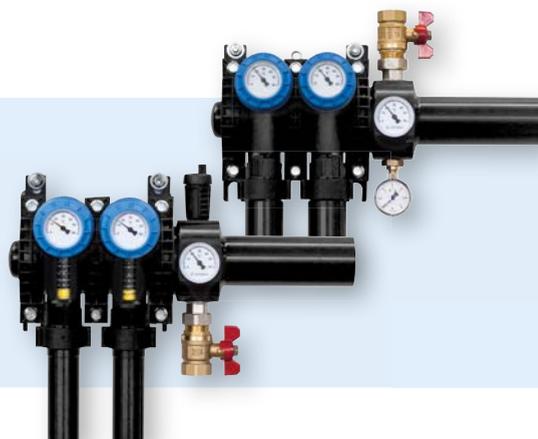
Modular plastic manifold for industrial or geothermal applications with up to 20 heating circuits. Return either with stroke valves for actuators or with shut-off valves, flow either with shut-off valves or with flow meters as required. Main connection with union nut G1 $\frac{1}{2}$. Individual installation of filling and drain valve, quick air vent, pressure gauge and thermometer via multi-way union. Easy snap-on mounting of manifold on wall bracket.

Heating circuit

Distance: 70 or 100 mm
Connection: G1 flat-sealing, compression fitting for pipe \varnothing 25 x 2.3/2.5 mm or \varnothing 32 x 2.9 mm and \varnothing 40 x 3.7 mm or G $\frac{3}{4}$ eurocone

Operating temperature range

Medium: -20/+60 °C at 6 bar



Geothermal manifold ProCalida® GT 3

Modular manifold for brine, made of plastic, for any number of heating circuits. With one shut-off valve each in the flow and return (adjusted values can be locked via a ring) and integrated flow rate indication in the return. Main circuit connection and heating circuit connections can be made to customer specifications. Individual installation of filling and drain valve, quick air vent and pressure gauge via cross piece. Thermometer can be integrated in the line and/or in each individual heating circuit. Robust, easy-to-mount wall bracket.

Heating circuit

Distance: 80, 90, 100, 110, 130, 140, 150 or 160 mm
Connection: Customised or compression fitting for pipe \varnothing 25 x 2.3/2.5 mm or \varnothing 32 x 2.9 mm and \varnothing 40 x 3.7 mm

Individual heating circuits can be rotated by 360°

Operating temperature range

Medium: -20/+60 °C at 6 bar

Range (flow meter)

2–12 l/min, 5–42 l/min, 35–70 l/min, 60–125 l/min

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 1,200 worldwide, over 550 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.

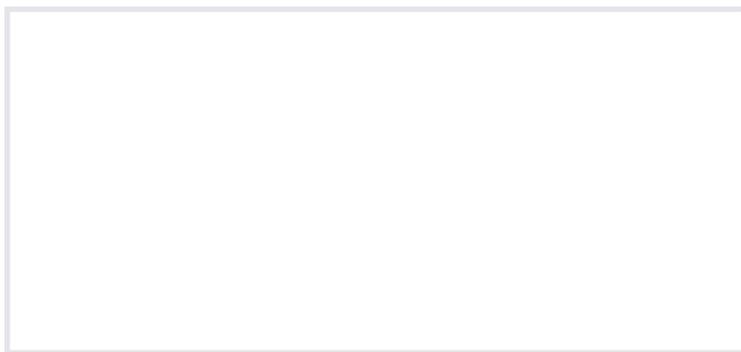
- Research and development
- Tools and equipment making
- Highly versatile and rational production
- Highest quality levels
- National and international approvals

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

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Technology for Environmental Protection
Measuring. Controlling. Monitoring.



AFRISO