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Pump assembly BRU for underfloor heating with ARV 362 Vario ProClick valve

NOTE!

The product may only be used if you have fully read and understood these operating instructions. The manual is also available on the AFRISO websites in the Internet.

WARNING!



Pump assembly may only be installed, commissioned, and dismantled by trained personnel. Work on electrical circuits should only be carried out by a licensed, qualified electrician.

The circulation pump of the pump assembly operates at a mains voltage of 230 V AC. This voltage can cause serious injury and death.

Do not allow the pump's electronics to come into contact with water or other liquids.

When performing installation work, disconnect the pump power supply.

Do not make any modifications to the device.

Changes and modifications carried out by unauthorised persons may cause danger and are prohibited for safety reasons.

APPLICATION

Used in heating systems. Installed between the heat source and the underfloor heating manifold. Prepares the medium at proper temperature and pumps it to the heating loops connected to the manifold.

PREDICTABLE INCORRECT APPLICATION

Pump assemblies BRU are not intended for use:

- with the following liquids and gases: a mix of water and glycol with a glycol concentration greater than 50%, steam, oil, petrol, drinking water;
- in explosive environments. When used in explosive areas, sparking may lead to deflagration, fire or explosion;
- for safety-related purposes;
- in combination with products that directly or indirectly serve to save human health or life, or whose operation may cause danger to humans, animals or material goods.

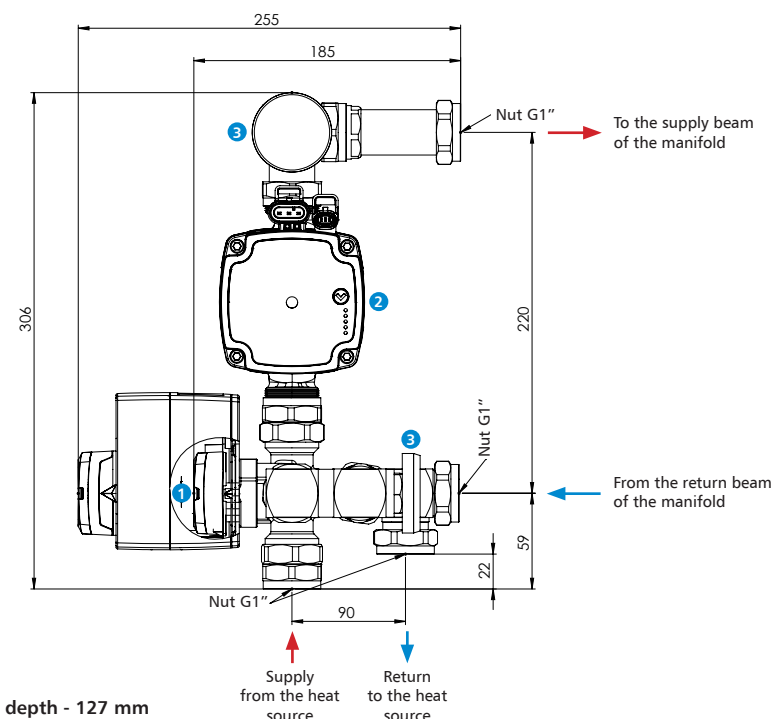
DESCRIPTION

The pump assembly BRU consists of an ARV 362 Vario ProClick rotary mixing valve **1**, a circulation pump **2**, two thermometers **3**, and brass connecting components. The pump assembly BRU should be connected to the heating system on the heat source side using two G1" nuts. We recommend using ball shut-off valves to connect the pump assembly to the system. The pump assembly is also screwed to the manifold using G1" nuts.

The ProCalida EF1 and EF1 K manifolds are fitted with proper manifold connections for easy connection of pump assemblies without the need for additional connecting components. To connect the pump assembly to the ProCalida VA 1C manifold, use nipples (Art.No. 90 500 07).

The pump assembly comes with two holders with a spacing of 220 mm for brass manifolds with a C7 beam cross-section.

DIMENSIONS [mm]



Pump assembly depth - 127 mm

OPERATION

The heating medium supplied from the heat source flows into the ARV Vario ProClick rotary mixing valve. It is mixed in the proper proportion, as indicated on the ARV Vario ProClick valve dial, with the medium flowing from the manifold return beam. The heating medium flows out through the valve connection thanks to the circulation pump and is pumped to the manifold supply beam.

The inflow of heating medium to the ARV Vario ProClick valve from the heat source is balanced by the same amount of medium flowing back to the heat source, which is located in the tee, at the level of the blue thermometer. In order to constantly control the supply temperature, it is recommended to automate the temperature setting process by installing a 3-point ARM ProClick electric actuator on the mixing valve and connecting it to the control system.

If the heat source does not have the option of controlling the mixing valve actuator, an external controller, e.g. BWC 310, can be used for control. The valve can also be fitted with ARC 345 ProClick or ACT ProClick regulators integrated with an actuator.

USAGE OF THE ARV VARIO PROCLICK VALVE

1. Position of the knob with dial

Position "0" means the valve is completely closed (hot water supply shut off), and position "10" means the valve is completely open (hot water supply turned on). Each other position on the dial indicates the percentage of the valve opening (e.g., position "4" means the valve is 40% open).

2. Position of the closing element

The closing element is located on the opposite side of the flattened area on the adapter. To check that the valve is working correctly, remove the knob from the adapter and check the location of the flattened area.

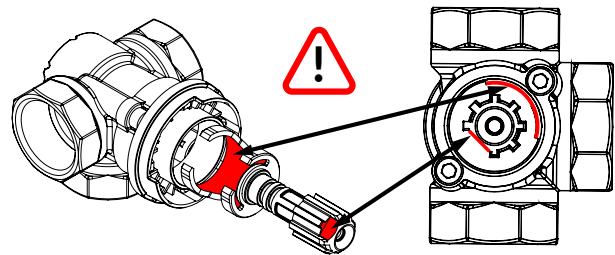


Fig. 1. Position of the valve closing element

3. Mounting of the ARM ProClick electric actuator or ACT/ARC ProClick controller

Under the knob of the ARV Vario ProClick valve, there is always an adapter for mounting the ARM ProClick electric actuator or the ACT/ARC ProClick controller. Thanks to the ProClick mounting system (Fig. 2), simply remove the knob and blue retaining ring from the valve, then slide the ARM ProClick electric actuator or ACT/ARC ProClick regulator into the proper position until the mounting mechanism snaps onto the valve.

4. Choosing the Kvs coefficient

ARV Vario ProClick rotary mixing valves allow you to select the optimum Kvs value for your specific installation and change it later. The proper Kvs value is crucial for the proper operation of the mixing valve. The procedure for selecting the proper Kvs value is described in the operating instructions available on the website www.afriso.pl.

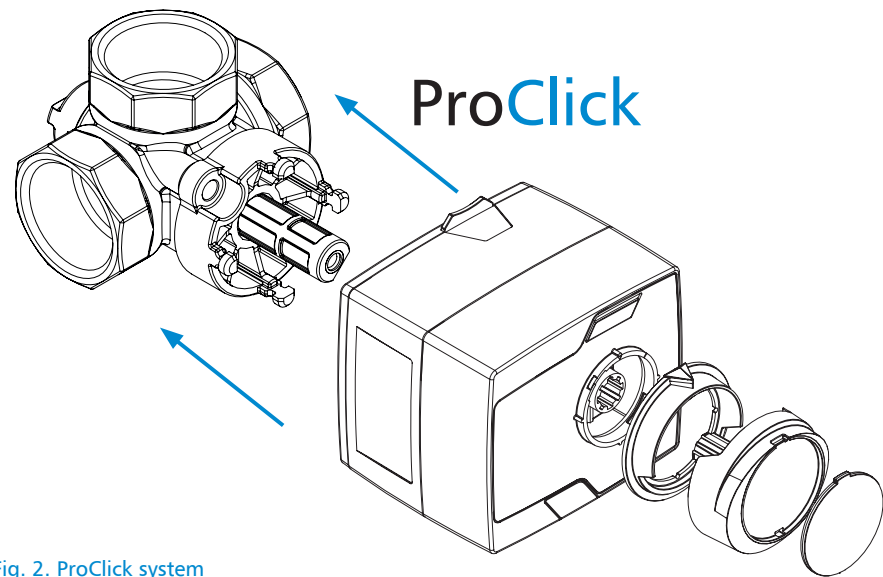


Fig. 2. ProClick system

TECHNICAL DATA

Parameter / part	Value / material
Operating pressure	max. 5 bar
Operating temperature	max. 90°C
Kvs of ARV Vario ProClick valve	3,5-9 m³/h
Pump power supply	230 V AC
Pump	Grundfos, UPM3 AUTO 15-70/130 mm (with plug and cable 1 m)
Glycol concentration	max. 50%
Material of connecting components	brass

USAGE OF THE CIRCULATION PUMP

To operate the circulation pump included with the pump assembly, please refer to the operating instructions available on the manufacturer's website.

To replace the circulation pump, shut off the heating medium supply and return to the main connections of the pump assembly. Close the heating circuits on the manifold beams, then unscrew the nuts on the circulation pump and perform the necessary maintenance. After completing the work, restore the flow through the pump assembly and open the heating circuits.

CAUTION! The circulation pump may only be replaced after the heating system has cooled down completely and the pump has been disconnected from the power supply!

APPROVALS AND CERTIFICATES

The product is subject to the Pressure Directive 2014/68/EU and are not CE marked in accordance with Article 4.3 (recognised engineering practice). The products have been marked with the B construction mark, in accordance with the regulations in force in Poland.

The circulation pump included with the product has a declaration of conformity, which is available on the manufacturer's website.

DECOMMISSIONING, DISPOSAL



1. Disconnect the power supply.
2. Dismount the device
3. Dispose of the product according to local directives and guidelines. Electronic parts and batteries should not be disposed of with household waste.

Return the product to the appropriate collecting point or to the manufacturer's or distributor's collecting point.

WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.