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Thermostatic mixing valves ATM

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!

The product may only be mounted, commissioned and disposed of by qualified, specially trained staff.

Alterations performed by unauthorized staff may cause a threat and are forbidden for safety reasons.

APPLICATION

The thermostatic mixing valves ATM are designed to mix two water streams at different temperatures to achieve a mixed stream at the outlet, with a stable, chosen temperature. Thermostatic mixing valves ATM can be used in tap water systems and underfloor heating systems.

PREDICTABLE INCORRECT APPLICATION

The thermostatic mixing valves ATM is not intended for use in the following cases and with the following media:

- mixtures of water and glycol with a glycol concentration of more than 50%, steam, oil, petrol and other substances that have a destructive effect on the valve components or interfere with its operation;
- under conditions exceeding the maximum permissible pressure and temperature limits for the medium.

MOUNTING

Before mounting the valve please rinse the system, paying particular attention to the removal of residues after soldering, cutting pipes, etc. Make sure that the flow direction matches the pattern on the valve (Fig. 1). We recommend mounting shut off valves on the ATM valve connections to make later maintenance or possible exchange easier. We also recommend mounting strainers at the inlets. In heating systems it is recommended to use desilters or similar filtering elements. If there is a risk of gravitational circulation or back flows in the system please consider mounting non-return valves at the cold and hot water connections. For this you can use the AFRISO set of fittings with check valves. The ATM valve can be mounted in all positions. The mounting location must allow access to the valve's knob.

The threads of different types of valves should be tightened in the correct way:
- Rp threads → PTFE tape, tow or other sealant (pair with outer R threads),
- G threads → flat gasket (pair with inner G threads).

Please do not hold the plastic parts with tools when mounting the valve. The ATM valve has special flat surfaces to use a wrench or other mounting tool on every connection (Fig. 2).

When it is hard to grab properly the knob to change the set temperature you can use an Allen key. At the top of the knob there is a special socket for a 7 mm key (Fig. 1).

HEAT TRAP

When installing ATM valves downstream of the DHW tank, we recommend fitting a heat trap. The ATM valve's connection pipes should be routed as shown in Fig. 3. We recommend observing the minimum distances between the heat trap and the ATM valve.

This method of installation protects the ATM valve before it overheats due to the circulation of hot water from the storage tank when no water is being drawn from the distribution points. Fig. 3 shows a diagram of the installation with a thermal trap, which prevents the ATM thermostatic valves from overheating.

FIG. 1. MIXING PATTERN AND TEMPERATURE KNOB

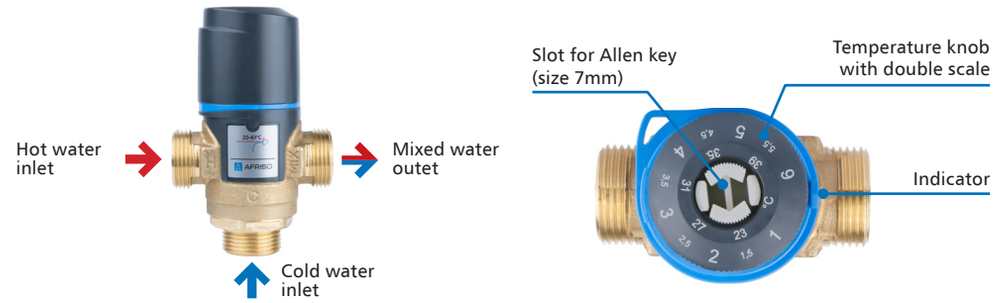


FIG. 2. CONSTRUCTION OF COVER AND FLAT SURFACE

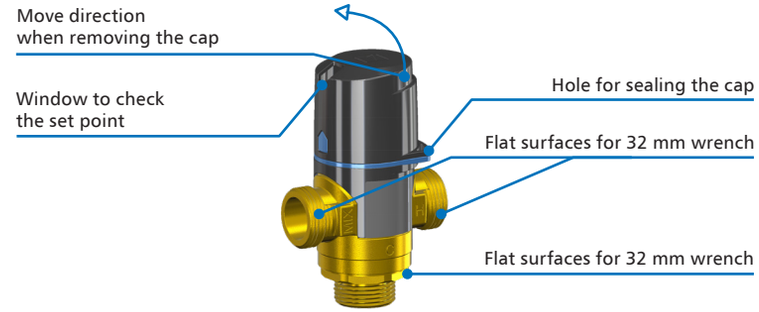
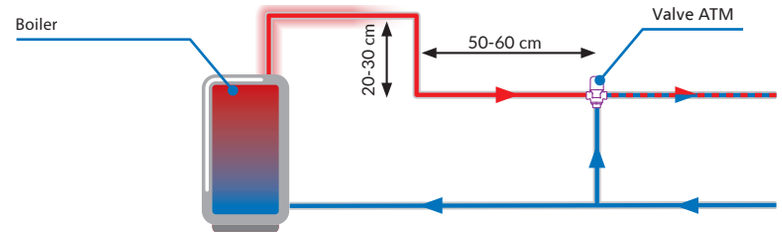


FIG. 3. HEAT TRAP



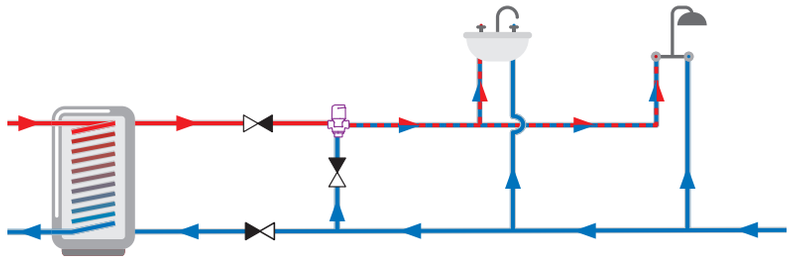
USING THE ATM VALVE

The water temperature at the MIX outlet of the ATM valve should be set using the knob, in accordance with the settings table. Once the desired temperature has been set, it is recommended that the plastic cover be replaced, as this will reduce the risk of accidental changes to the setting or unauthorised tampering. If the ATM valve is installed in a public area, we recommend sealing the cover with a seal, using the hole provided for this purpose (Fig. 2). ATM valves offer the best control performance at a maximum system pressure of 3 bar.

Setting	Temperature	
	Range 20-43°C	Range 35-60°C
1	20°C	35°C
2	25°C	44°C
3	29°C	48°C
4	33°C	52°C
5	37°C	56°C
6	43°C	60°C

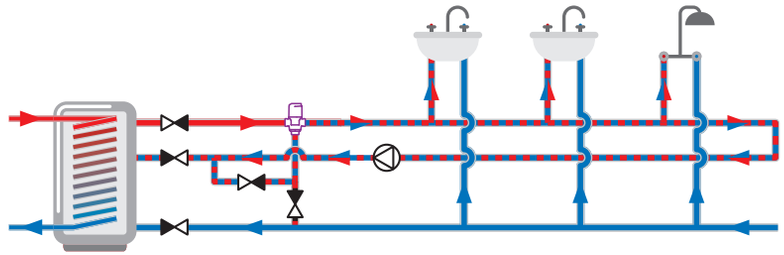
EXAMPLE APPLICATION SCHEMES

Scheme 1.



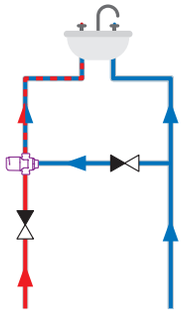
An ATM valve is used to maintain a constant (set) temperature of the hot water supplied to washbasin taps, showers and other distribution points.

Scheme 2.



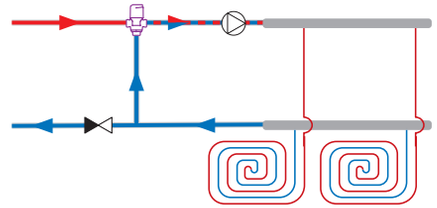
An ATM valve used to maintain a constant (set) temperature in the hot water circulation circuit.

Scheme 3.



An ATM valve used to maintain a constant (set) hot water temperature at the washbasin tap.

Scheme 4.



An ATM valve used to maintain a constant (set) temperature in the underfloor heating supply.

APPROVALS AND CERTIFICATES

The thermostatic mixing valves ATM are 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. They have a hygiene certificate issued by the NIZP-PZH.

TECHNICAL DATA

Parameter / piece	Value / description
Adjustment range	35-60°C or 20-43°C
Kvs	1.6 m³/h or 2.5 m³/h
Glycol concentration	max. 50%
Operating temperature	max. 90°C
Static pressure	max. 10 bar
Dynamic pressure	0.5-5 bar
Required flow rate	min. 6 l/min
Adjustment accuracy	±2°C
Material	CW625N brass, stainless steel, PSU, EPDM

MAINTENANCE

The thermostatic mixing valve ATM does not require any maintenance. We only recommend at times to check the anti-scalding function by closing the cold water pipe and observing the water outlet. When the valve works properly, the flow should stop.

DISMOUNTING, DISPOSAL

1. Dismount the device.
2. Dispose of the product in accordance with applicable regulations, standards and safety guidelines.

This product is made from recyclable materials. If you have any questions or problems with disposal, please contact the proper distributor or manufacturer.

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.