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Thermostatic mixing valves ATM

Art.-Nr 12 341 10, 12 343 10, 12 361 10,
12 363 10, 12 331 10, 12 333 10,
12 563 10, 12 561 10

NOTICE!

This instruction manual is also available on www.afriso.pl.

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.

Mounting instructions

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 ([drawing 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).

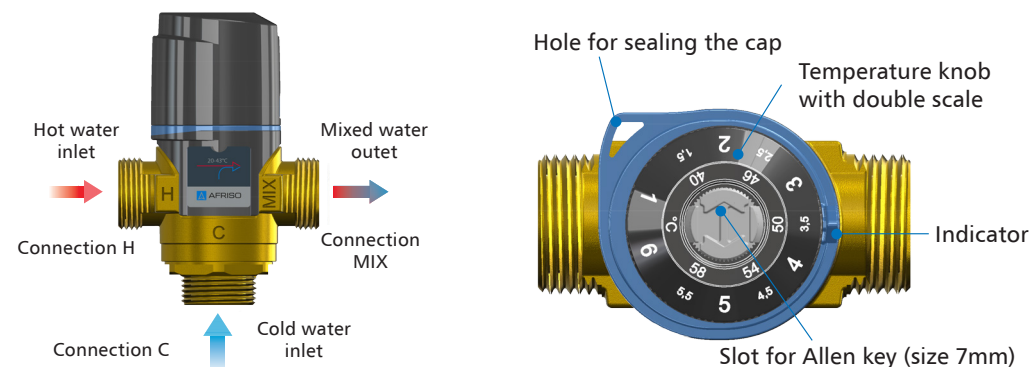
Please do not hold the plastic parts with tools when mounting the valve. The ATM valve has special flat surfaces to use a wrench or other mounting tool on every connection ([drawing 2](#)).

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 ([drawing 1](#)).

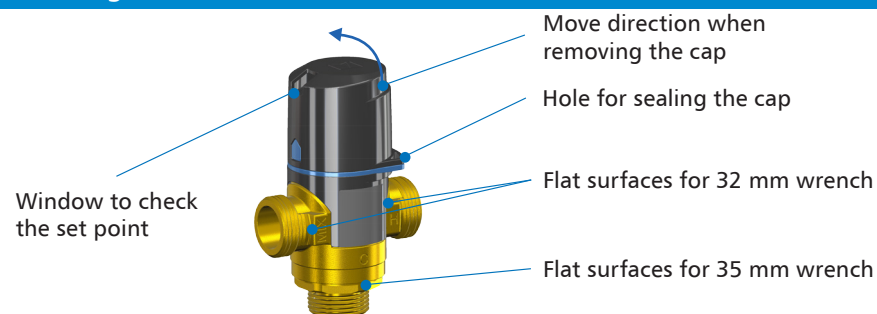
Heat trap

When mounting the ATM valve at the outlet of a water heater it is recommended to do a heat trap. The pipes connected to the ATM valve should be done according to [drawing 3](#). We advise to use the minimum distances between the trap and the ATM valve. Such mounting protects the ATM valve from overheating due to circulation of hot water from the heater when the water is not being distributed in the system.

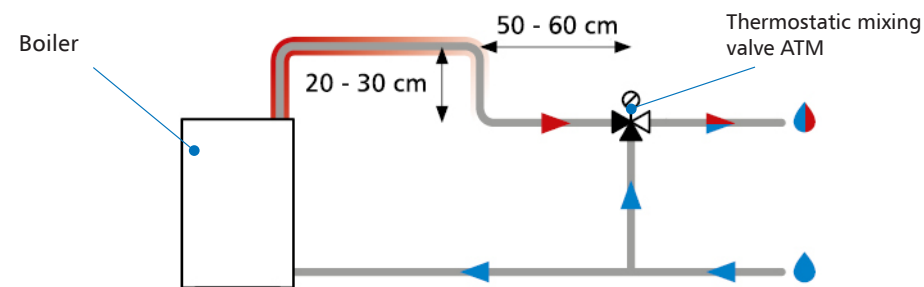
Drawing 1. Mixing pattern and temperature knob



Drawing 2. ATM valve view



Drawing 3. Heat trap



Using the ATM valve

The outlet (MIX) temperature on the ATM valve is set with the temperature knob according to the setting table. When the temperature is properly set we recommend putting in place the cap to avoid any unnecessary interference. When the ATM valve is mounted in an easily accessible place we recommend to use a seal to lock the cap ([drawing 2](#)). The ATM valve works best when the pressure in the system is not above 3 bar.

Setting

Temperature

Range 20÷43°C	Range 35÷60°C
20°C	35°C
25°C	44°C
29°C	48°C
33°C	52°C
37°C	56°C
43°C	60°C

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.

Technical data

Parameter / piece	Value / description
Static pressure (PN)	max 10 bar
Dynamic working pressure	max 5 bar
Working temperature	max 90°C (temporarily 110°C)
Setting range	35÷60°C or 20÷43°C
Kvs	1,6 m³/h or 2,5 m³/h
Temperature stability	±2°C
Valve body	DZR brass
Glycol concentration	max 50%
Required flow for proper operation	min 6 l/min

Dismounting, disposal



1. Dismount the valve.
2. To protect the environment, this product must not be disposed of together with the normal household waste. Dispose of the product according to local directives and guidelines.

This device consists of materials that can be reused by recycling firms.

Warranty

The manufacturer's warranty for this product is 36 months after the date of purchase. In case of any alteration in the product or usage against this instruction manual the warranty becomes void.

Customer satisfaction

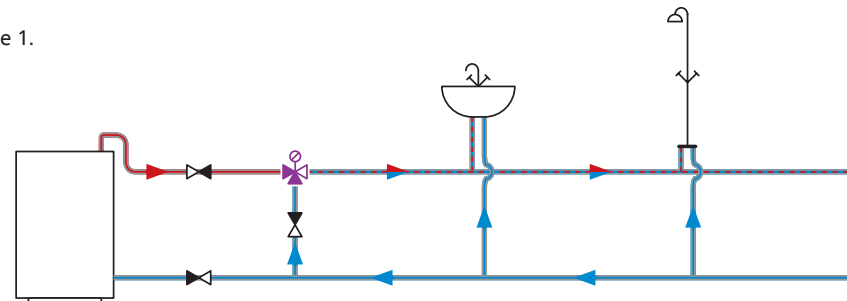
For AFRISO Sp. z o.o. customer satisfaction is the prime objective. Please contact us if you have any questions, suggestions or problems concerning our product: zok@afiso.pl, +48 032 330 33 55.

Declarations and statements

The thermostatic mixing valves ATM meet the requirements of the Pressure Directive PED 97/23/EC and according to article 3.3 (good engineering practice) do not wear the CE marking.

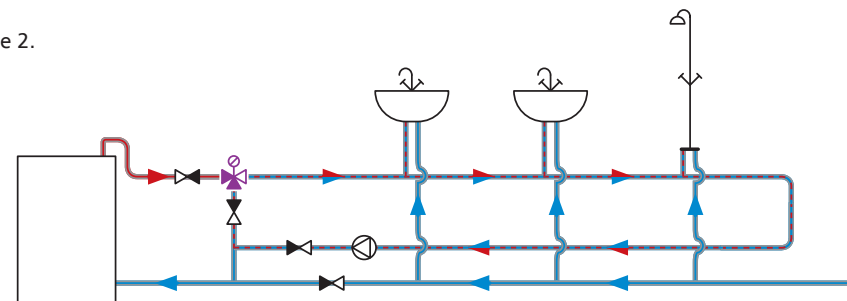
Drawing 4. Example application schemes

Scheme 1.



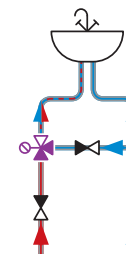
The ATM thermostatic mixing valve maintains the constant (set) hot water temperature in several water taps and showers.

Scheme 2.



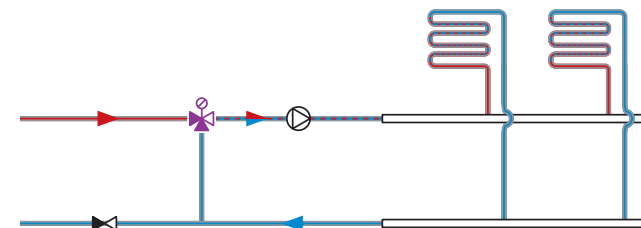
The ATM thermostatic mixing valve maintains the constant (set) temperature in the circulation circuit for several water taps and showers.

Scheme 3.



The ATM thermostatic mixing valve maintains the constant (set) temperature in a single water tap.

Scheme 4.



The ATM thermostatic mixing valve maintains the constant (set) temperature in the underfloor heating system.