

TA-MIX



Mixing valves

Thermostatically controlled mixing valve

TA-MIX

Thermostatic mixing valve for control of domestic hot water supply or of similar smaller systems.

Key features

> Temperature range

The valve can be set between 35°C and 65°C.

> AMETAL®

Dezincification resistant alloy that guarantees a longer valve lifetime and lowers the risk of leakage.



Technical description

Applications:

Domestic hot water systems.

Functions:

Control of domestic hot water supply or of similar smaller systems.

Pressure class:

PN 10

Temperature:

Max working temperature: 100°C

Temperature range:

35 - 65°C

Locked at 65°C from factory.

Material:

Valve body and other parts in contact with water of AMETAL®.

Hot water disc of Acetal plastic

Cold water disc teflonized.

Spring of stainless steel.

O-ring of EPDM rubber.

Knob of Acetal plastic.

Sensing element of special wax mixed with pulverized copper.

AMETAL® is the dezincification resistant alloy of IMI Hydronic Engineering.

Approvals:

WRAS

Installation

Before fitting the valves, flush the lines thoroughly to remove any dirt that could affect performance.

A heat block or check valve should be fitted in order to prevent convection.

Hot water outlets upstream of TA-MIX

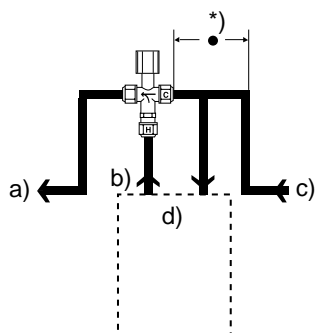
Any outlet upstream of the TA-MIX valve, e.g. for dishwasher or similar, causes temperature variations in the draw-off warm water when run at the same time. The reason for this is that the pressure drop through the water heater increases

sharply when hot water is drawn off, whereas the pressure drop on the cold water side up to the mixing valve remains the same.

If a hot water outlet is arranged upstream of the valve a non-return valve must be fitted upstream of the mixing valve.

Connection

A heat block or check valve should be fitted in order to prevent convection (self-circulation) of hot water. Three examples are shown below:

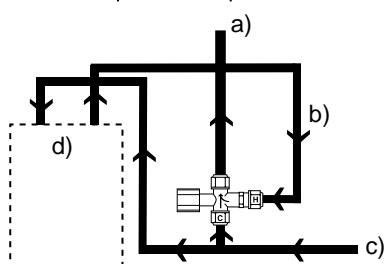


TA-MIX installed over the boiler

To prevent back-flow and building up of pressure in the cold water line, connection should be done as shown in the sketch.

- a) Mixed water
- b) Hot water
- c) Cold water
- d) Boiler

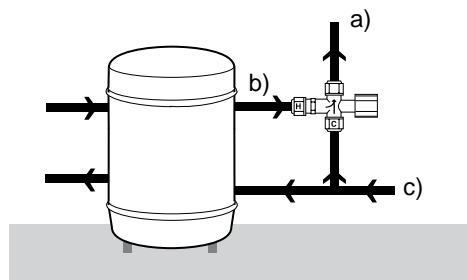
*) Shortest possible distance



TA-MIX installed beside the boiler

Install the TA-MIX about 0,75 - 1,0 m below the top of the boiler.

- a) Mixed water
- b) Hot water
- c) Cold water
- d) Boiler



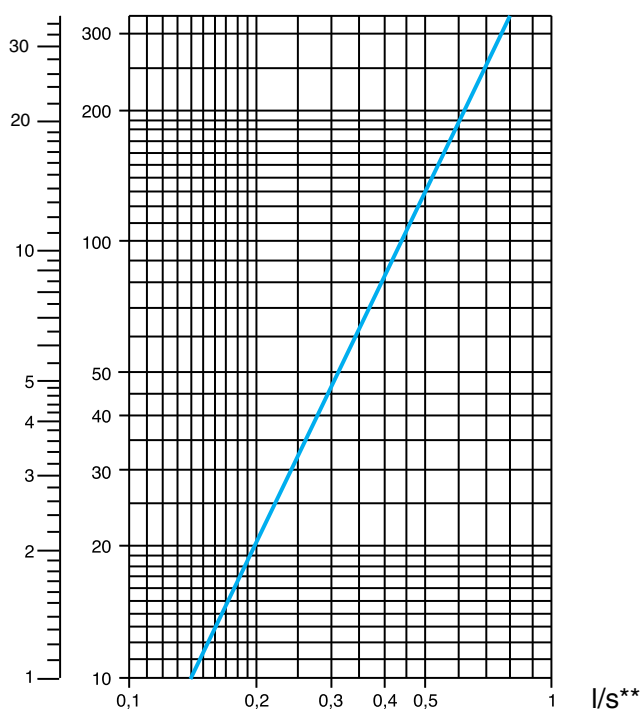
Floor-mounted calorifier

- a) Mixed water
- b) Hot water
- c) Cold water

Diagram

Pressure-drop

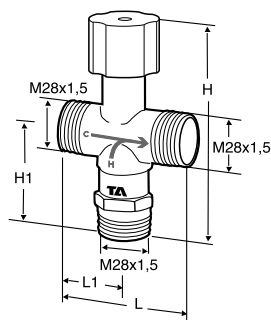
*) kPa



*) mWG

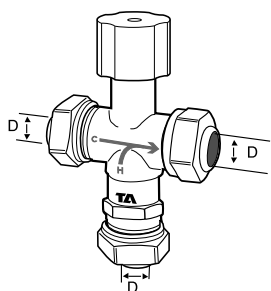
***) Water flow in l/s

Articles



Without FPL connection

H	H1	L	L1	Kvs	EAN	Article No
110	50	58	29	1.6	7318792861000	52 730-001



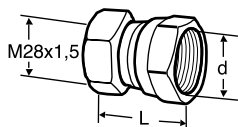
With FPL connection

D	Kvs	EAN	Article No
22	1.6	7318792861307	52 730-022

Separate thrust nuts and cones see catalogue leaflet FPL.

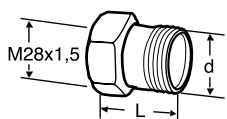
Kvs = m³/h at a pressure drop of 1 bar and fully open valve.

Transition nipples



With female thread

L	d	EAN	Article No
32	G3/4	7318793707208	53 348-420



With male thread

Nickel plated

L	d	EAN	Article No
35	R1/2	7318793706508	53 339-715

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