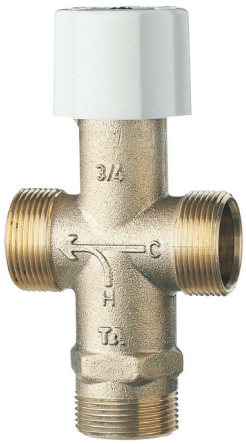
# TA-MIX

11-5-5

**Thermostatically controlled mixing valve**

**2004.10**




## 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

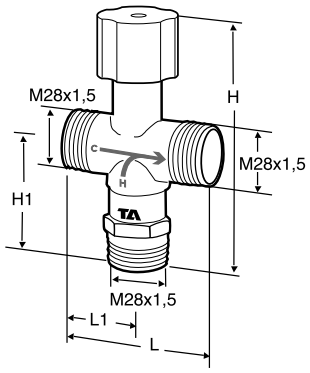
**Temperature range:**
35 - 65°C

**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 TA.

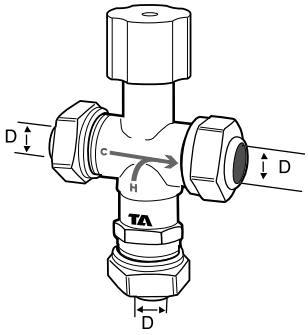
## TA-MIX

**Without FPL connection**




| TA No | H | H1 | L | L1 | Kvs |
|---|---|---|---|---|---|
| 52 730-001 | 110 | 50 | 58 | 29 | 1.6 |

**With FPL connection**

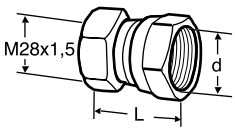



| TA No | D | Kvs |
|---|---|---|
| 52 730-015 | 15 | 1.6 |
| 52 730-018 | 18 | 1.6 |
| 52 730-022 | 22 | 1.6 |

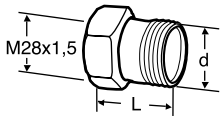
Separate pressure nuts and cones see catalogue leaflet FPL, FPL-PX.

Kvs = $m^3$/h at a pressure drop of 1 bar and fully open valve.

## Transition nipples




| TA No | L | d |
|---|---|---|
| 53 348-415 | 30 | G1/2 |
| 53 348-420 | 32 | G3/4 |




| TA No | L | d |
|---|---|---|
| 53 339-715* | 35 | R1/2 |
| 53 339-620 | 37 | R3/4 |

*) Nickel plated

## Installation

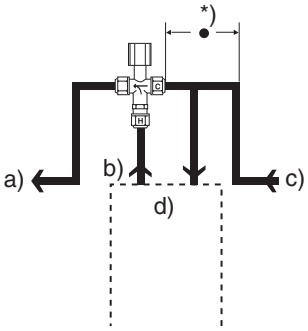
Before fitting the valves, flush the lines thoroughly to remove any dirt that could affect performance.
A heat block or check valve should be fitted in order to prevent convection.

**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:**

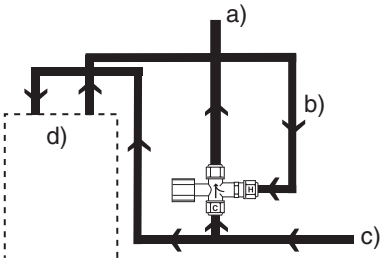
### TA-MIX installed over the boiler




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

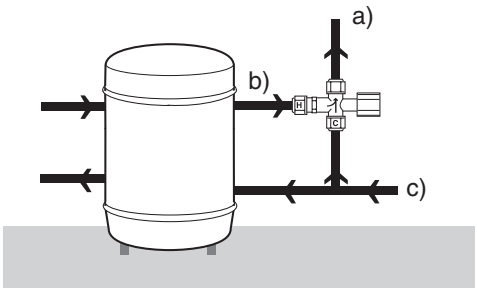
### TA-MIX installed beside the boiler




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

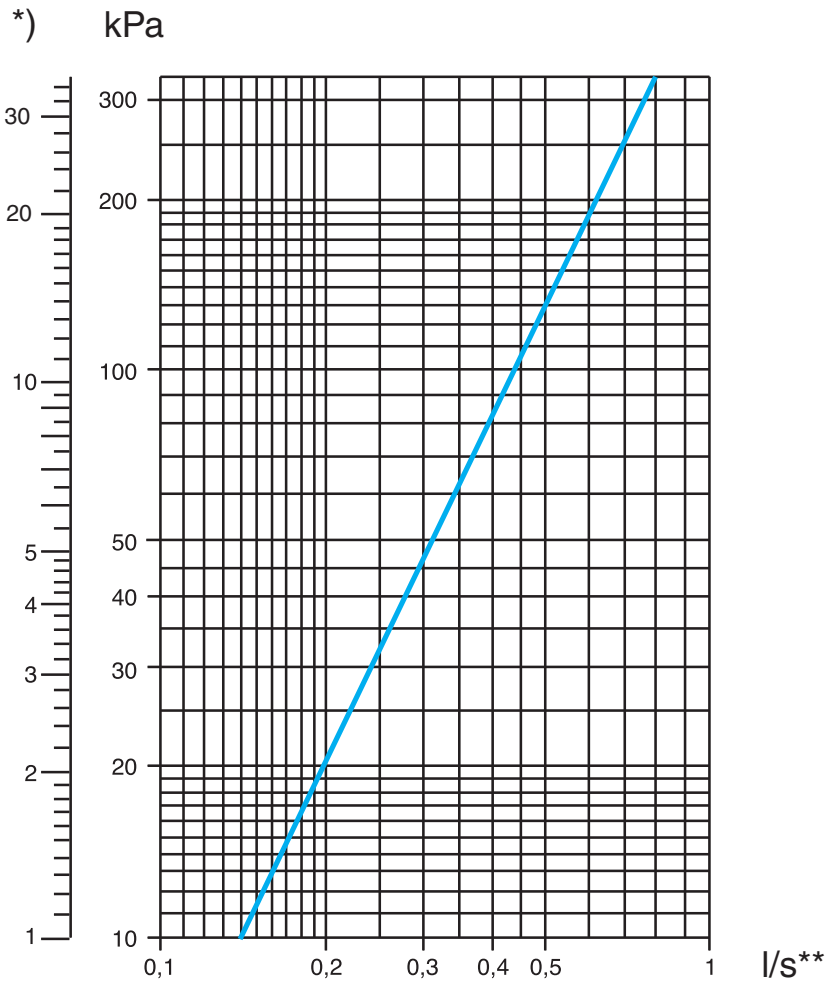
### Floor-mounted calorifier




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

## Diagram

**Pressure-drop**




*) mWG
**) Water flow in l/s