

# ULTRAMIX® OMDA

High productivity thermostatic mixing valve

## Technical data sheet



## Description

The thermostatic mixing valve ULTRAMIX® "OMDA" has the same characteristics than the ULTRAMIX®, but it is equipped a RILSAN protection kilned at 250°C protects the mixing valve body at the place of the seats and hot and cold water supply pipes. Special model specifically conceived to withstand seawater, softened water and distilled water.

- Continuous PROTECTION AGAINST LEGIONELLA.
- SCALD PROTECTION: the thermostatic mixing valve cuts off instantly if there is a shutdown of the cold or hot water supply.
- MAXIMUM TEMPERATURE LIMITATION adjustable and lockable.
- LIMITED MAINTENANCE: no friction from moving metal parts means excellent resistance to scale and remarkable longevity.
- BIMETALLIC STRIP TECHNOLOGY: exceptional qualities of regulation and resistance to the scale (crucial factor for safety).
- SIMPLE AND EASY MAINTENANCE: removal cartridge without dismantling the thermostatic mixing valve, strainers and integrated check valves accessible directly on the cartridge.
- ADJUSTMENT PRECISION and COMFORT of the temperature stability with low and high flow rates.
- GUARANTEE: thermostatic mixing valve and cartridge guaranteed 5 years.



## ULTRAMIX® OMDA

Thermostatic mixing valve, with built-in blocking control knob.

Connect.	Flow (l/min)	Setting range	Finish	Points of use*	Part number	Weight (kg)
M 3/4"	Min. 5 – Max. 56	10/50°C	Grey epoxy	1 to 7	22TX91OMDA	2,3
M 3/4"	Min. 5 – Max. 80	10/50°C	Grey epoxy	1 to 10	22TX92OMDA	2,3
M 1"	Min. 5 – Max. 120	10/50°C	Grey epoxy	1 to 15	22TX93OMDA	3,5

\* For information - please take into account the number of taps connected to the same network and used simultaneously.

Calculation software access:  
[Click here](#)

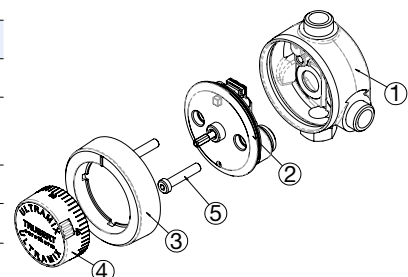
## Technical features

Technical features	
Maximum static pressure	10 bar
Maximum dynamic pressure	6 bar
Operating pressure	2 - 4 bar
Minimum operating pressure	1 bar
Maxi. hot temperature supply	85°C
Flow mini.	5 l/min
Flow max.	56, 80, 120 l/min, depending the model
Minimum temperature variation between inlets	5°C
Maximum pressure variation between inlets	1,5 bar

\* differential minimum hot/mix temperature must be > 10°C.

## Nomenclature and materials

N°	Designation	Materials	EURO
1	Body	Brass	CB770S
2	Cartridge (10/50°C)	Brass + stainless steel + EPDM + covered steel	
3	Cover M2	Plastic	PP
4	Knob	Plastic	ABS
5	Screw	Stainless steel	1.4310 (AISI 301/302)

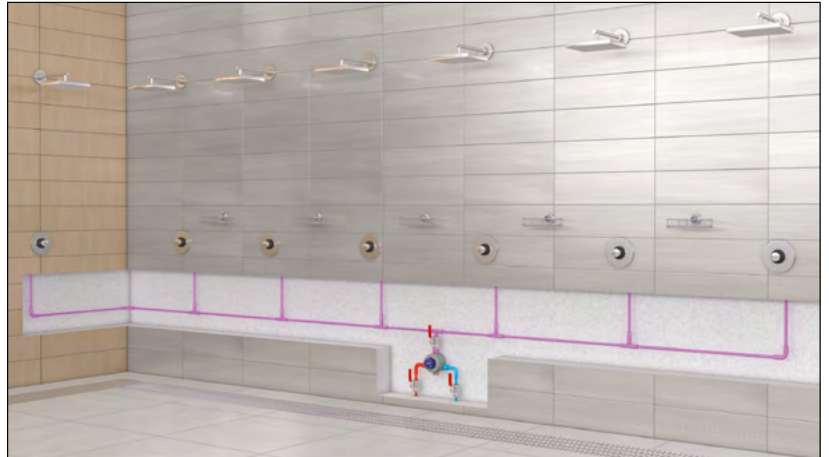


## Approvals

ACS, BELGAQUA.

## Application

Special model specifically conceived to withstand seawater, softened water and distilled water.



## Installation

The hot water has to be connected on the left side and the cold water on the right side and connect the mixed water outlet. Provide an accessible shut-off valve on each pipe. Rinse pipes with the supplied kit and turn on the thermostatic mixing valve. Adjust the temperature. Please, refer to the complete instructions supplied with the thermostatic mixing valve or on [wattswater.eu](http://wattswater.eu).

## Setting

Mixed water temperature adjustment: this adjustment is done autonomously without the loop circulation pump.

1. Stop the loop circulation pump.
2. Close the pump isolation valves.
3. Open sufficient points of use on the mixed water circuit to obtain the minimum flow of the thermostatic mixing valve.
4. Turn the thermostatic mixing valve axis control shaft to reduce or increase the mixed water temperature.
5. Once the required temperature is obtained, replace the control knob.

## Against legionella answer

Thanks to the ULTRAMIX® OMDA there is a solution against legionella:

- You can by putting the cartridge in position "rinsing" i.e. turned over cartridge, fixed at back, (see simple procedure and the rinsing kit delivered with the thermostatic mixing valve): proceed to a thermal "shock" with more 70°C, without risk to damage the thermostatic mechanism prematurely, because is not any more in contact with water.

## Replacement cartridges ULTRAMIX® OMDA

The thermostatic mechanisms are independent from the other parts of the thermostatic mixing valves.

This modular system, facilitates the first start-up and the maintenance (possibility of cartridge exchange).

Any installation defect is immediately detected and allows a quick compliance.

All Eurotherm "cartridges" of ULTRAMIX®, high productivity thermostatic mixing valve, have stainless steel filters and check valves NF approved.



For mixing valve type	Flow (l/min)	Setting range	Part number
TX91OMDA	Min. 5 – Max. 56	10/50°C	22TX1OMDA*
TX92OMDA	Min. 5 – Max. 80	10/50°C	22TX2OMDA*
TX93OMDA	Min. 5 – Max. 120	10/50°C	22TX3OMDA*

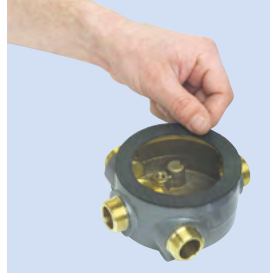
\* For reversed cartridges add "IN" to the article code.

# Maintenance

WATTS INDUSTRIES recommends to minima, the installation of a thermometer of control of the temperature on the mixed water piping and one on the return of loop, and that this temperature is checked at least once a month under the normal conditions of operation. This thermometer must be installed at a distance from at least 1 meter of the thermostatic mixing valve. The rinsing kit is delivered with the thermostatic mixing valve and allows to facilitate the intervention in case of preventive or curative treatment.



Take off the knob, cover, and screw. Remove the cover/cartridge from its casing.



Place the flat washer (included in package) on the device's neck.



Place the cover/cartridge unit upside down on the device and flat washers.



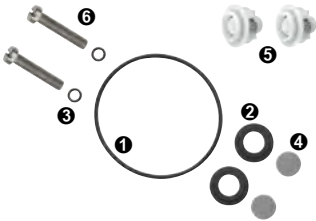
Tighten the temporary screws (included the package). The valves act now as a "by-pass".

The principle of compact mechanism in the form of interchangeable cartridge allows a handing-over under operation of the thermostatic mixing valves in record time. This great simplicity of maintenance makes it possible to utilize a person without particular qualification and not to immobilize an installation more few minutes, so much the exchange of the mechanism is fast. Moreover, the body of the thermostatic mixing valve is never dismantled of the installation.

## Maintenance kit for ULTRAMIX® OMDA cartridge

This kit includes all the usual wearing parts:

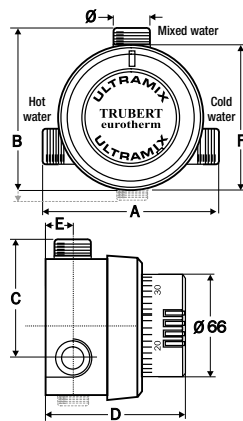
the cover-cartridge gasket ❶, 2 filter-support (elastomer) ❷, gaskets for cover screws ❸, 2 stainless steel strainers ❹, the check valve units and assembled check valve carriers ❺ and the cover screws ❻.



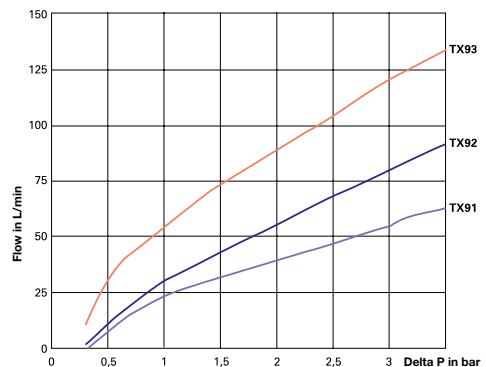
For cartridge type	Part number complete kit	Part number simplified kit
TX1, TX2, TX137, TX237	22TB120002	22TB120022 (without cover screws)
TX3, TX337	22TB120003	22TB120023 (without cover screws)

## Sizing (mm)

Model	TX91	TX92	TX93
A (mm)	117	117	144
B (mm)	120	120	142
C (mm)	81	81	96
D (mm)	93	93	108
E (mm)	19	19	23
F (mm)	98	98	116
diameter	3/4"	3/4"	1"
weight (kg)	2,3	2,3	3,5



## Operating



The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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Watts Water Technologies

WATTS INDUSTRIES France

1590 avenue d'Orange • CS 10101 Sorgues 84275 VEDENE CEDEX • FRANCE

Tél. +33 (0)4 90 33 28 28 • Fax +33 (0)4 90 33 28 29/39

contact@wattswater.com • [www.wattswater.eu](http://www.wattswater.eu)