

THERMOSTATIC MIXING VALVES WITH INTERCHANGEABLE CARTRIDGE SERIES TX92

ULTRAMIX®



Integrated
check-valves
and filters

◆PURPOSE

Inlet device recommended for all applications where the mixed water temperature must be kept exact and constant, and adjustable at any time.

- Large variations between the minimum and maximum flow rates : Multi-point showers at sports centres, campsites, swimming pools, schools, factories, barracks, hospitals, hotels, hairdressing salons, blocks of flats, boats.
- Strenuous safety conditions (scald protection) : Play schools - Maternity wards - Hostels - Psychiatric hospitals - Prisons.
- Heavy duty : Spas - Water therapy centres - (see special OMDA models).
- Water temperature control in industry : Photographic laboratories - Food industries - Slaughter houses - Tanneries - Safety showers.

◆ADVANTAGES

This mixing valve is very straightforward and easy to operate.
It provides comfort and safety at any flow rate.

Scald protection : To prevent scalding, the hot water is instantly cut if the cold water supply is interrupted (Δ hot water/mixed water $> 10^{\circ}\text{C}$).

The considerable savings in hot water quickly make up the cost of the product.

◆IDENTIFICATION

TX92E (epoxy finish) or TX92C (chromium finish)
On the cartridge : "TX2" followed by the number of the week and year of manufacture (e.g. 24-03).

◆DESIGN

Weight 1,8 kg.

Body made of chromium-plated brass, with blue knob (Ref. C) or Grey epoxy, with blue knob (Ref. E). Grey cover.

Apparent or inset (TX92 or 8280).

Option : - "HP" (High Protection) kit, vandal-proof model for public buildings (tamper-proof chromium-plated front panel).

◆APPLICATIONS

This model of mixing valve is used only for temperature regulation.
It is fitted with a flow rate valve at its outlet.

Possibility of regulating cold and hot water or cold and chilled water.

Setpoint range from 5° to 70°C (depending on model, scale in degrees or by marker specified in product reference).

Standard scale $10^{\circ}/50^{\circ}\text{C}$, on request and without price supplement : $5^{\circ}/40^{\circ}\text{C}$ or $30^{\circ}/70^{\circ}\text{C}$.

◆TECHNICAL SPECIFICATIONS

- Male thread on inlets and outlets, suitable for most plumbing connections.
- Number of outlets : 2.
- Knob with scale from 10° to 50°C or 30° to 70°C .

Marking from 1 to 9 for the 5° to 40°C range.

The mixing valve is delivered tested and ready to calibrate.

Stops supplied in the control knob to allow locking to a specific degree or range of temperature.

◆PROTECTION AGAINST LEGIONELLA :

If disinfecting or protective measures need to be set up against legionella, the ULTRAMIX mixing valve "rinse" operation allows very hot water or water containing disinfectants to be used without reducing the lifetime of the thermostatic mechanism.

With the mixing valve as delivered, you can :

- set the temperature up to 55/60°C in the primary loop (recommended temperature),
- set the temperature at 39°C (up to 50°C for some uses) in the secondary loop,
- carry out a thermal "shock" very simply by releasing the temperature knob and setting it to 70°C (without dismantling the mixing valve, cartridge or knob).

By placing the cartridge in the "RINSE" position, i.e. with the cartridge turned over and secured upside down (see simple operating instructions delivered in the boxes), you can also :

- rinse the mixing valve and pipes, (important operation before first use),
- inject a disinfecting product (chlorine) into the pipe system, without any risk of damage to the thermostatic mechanism since it is no longer in contact with the water,
- carry out a thermal shock above 70°C without any risk of reducing the lifetime of the thermostatic mechanism since it is no longer in contact with the water.

◆CONSTRUCTION

This mixing valve comprises a body, mechanism with stainless steel filters and removable check valves and a cover-cartridge.

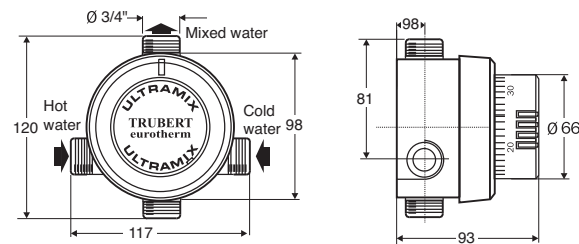
The materials used resist corrosion and scaling :

Brass body - Special parts made of metal alpha brass -

Screw and pusher made of molybdenum stainless steel -

Ethylene-propylene diaphragms -

Bimetal entirely protected with Rilsan.

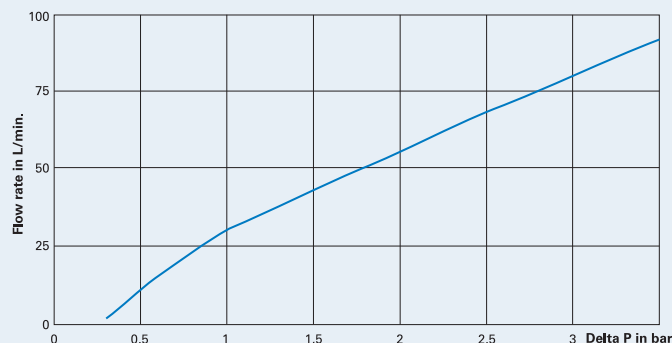


Bottom outlet to be plugged if not used.

◆INSTALLATION

- Connection : we recommend fitting stop valves on the inlets and outlet, close to the mixing valve, to allow it to be isolated for maintenance and cartridge removal, without draining the installation.
The valves on the inlets remain fully open during normal operation.
- Rinse the pipes using the rinsing kit (provided by Trubert eurotherm).
- Calibration : simply move the knob on its indexed shaft until the temperature on the scale matches that of the water coming out of the mixing valve.

◆PRESSURE DROP CURVE / HEADLOSS

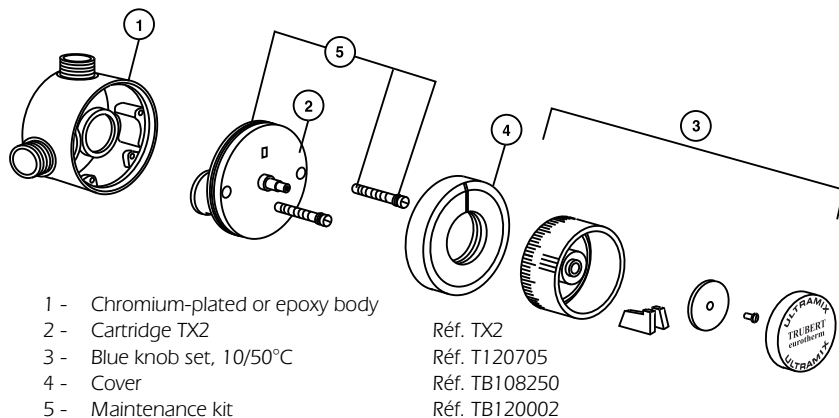


DYNAMIC PRESSURE FLOW RATES AT INLETS

Under	1 bar	2 bar	3 bar
Flow rate in l/mn	31	56	80
Flow rate in l/sec	0,51	0,93	1,33

Maximum recommended flow rates

Minimum acceptable flow rate	3 l/mn
Maximum acceptable flow rate	80 l/mn
Maximum permanent pressure difference between inlets	1,5 bar



The EUROTHERM ULTRAMIX cartridge



- ☺ Cartridge can be removed and replaced for extremely easy descaling and disinfecting.
- ☺ Built-in check valves : full approved (Belgaqua, DVGW, KIWA, NF, WRC).
- ☺ Filtering : perfect accessibility, dismantled without tools, easy cleaning without instruction.
- ☺ Several temperature ranges on request and without price supplement : 10/50°C - 30/70°C - 5/40°C.
- ☺ Service : product widely distributed across Europe.
- ☺ Guarantee : mixing valve and cartridge guaranteed for 24 months.
- ☺ Manufacturer : WATTS INDUSTRIES FRANCE has ISO 9001 certification through the BVQI.
- ☺ Market background and know-how : present since 1947.

Head office and factory

13, rue J.J. Rousseau.
B.P. 90007 Tel. 03 22 60 39 80
80390 FRESSENNEVILLE Fax 03 22 60 39 89

Commercial services

06, avenue Gustave Eiffel Tel. 02 37 25 11 00
B.P. 40339 Fax 02 37 25 11 11
28006 CHARTRES Cedex Fax 02 37 25 11 44

