

THERMOSTATIC MIXER



1. DESCRIPTION

TERMO-FAR mixers are designed to maintain a constant preset temperature for the mixed water sent to the terminal, despite variations in fluid temperature, pressure and flow conditions.

To avoid accidental use of very hot water, that might cause scalding, there is the anti-scald feature, which stops the hot flow in the absence of cold water.

2. FUNCTIONING

The mixer is equipped with a thermo-sensitive element, which detects the temperature of the mixed fluid. The sensor is directly immersed into the mixed water, permitting maximum accuracy and speed of response. The sensor continuously monitors changes in water temperature and adjusts cold and hot water inlets to achieve the correct proportions of each and thus the set temperature.

N.B. in order to increase mixer accuracy it is essential to

balance pressure between cold and hot water inlets.

CALIBRATION

Valve calibration, i.e. setting the temperature of the water exiting the mixing valve, is carried out manually by turning the graduated handle.

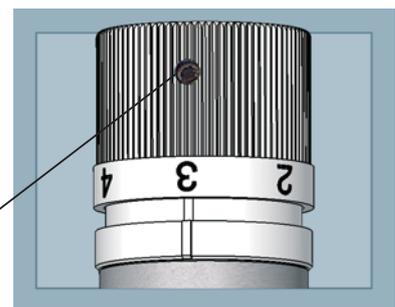
The graduations are shown as follows:

HANDLE POSITION	MIN	1	2	3	4	5	MAX
°C TEMPERATURE	27	34	38	42	45	50	65

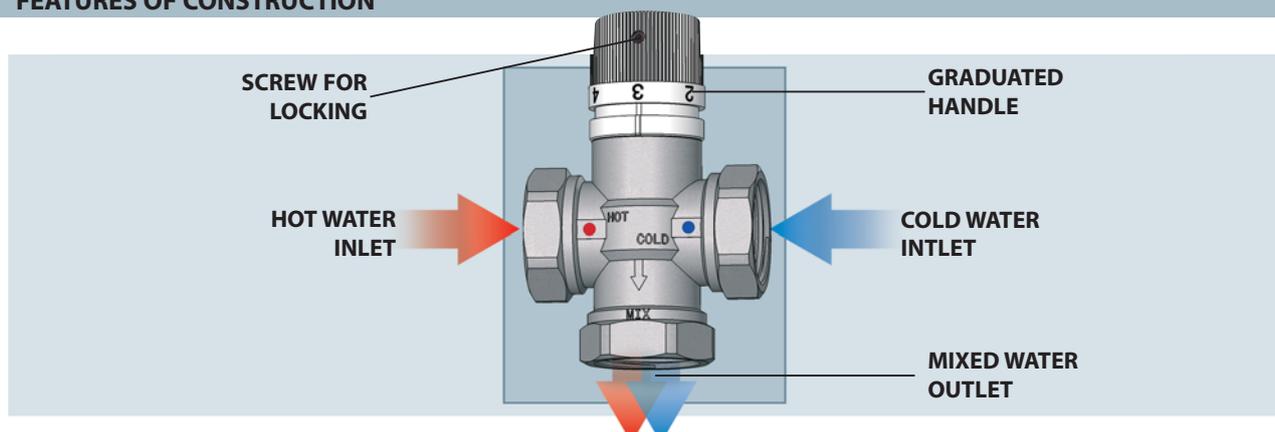
The valve is calibrated in our factory with hot water at 70°C at a pressure of 3 bar and with cold water at 15÷20°C at a pressure of 3 bar. When adjusting the supply temperature of the mixed fluid please note that safety precautions to prevent scalding involve many factors such as water temperature, the user's age and exposure time. To prevent scalds, the recommended temperatures for water leaving the taps are as follows:

TERMINAL	T MAX °C
BIDET	38
WASHBASIN	40
SHOWER	40
BATH	44

Once the handle is set at the desired temperature it is possible to lock it by pressing the screw.



3. FEATURES OF CONSTRUCTION

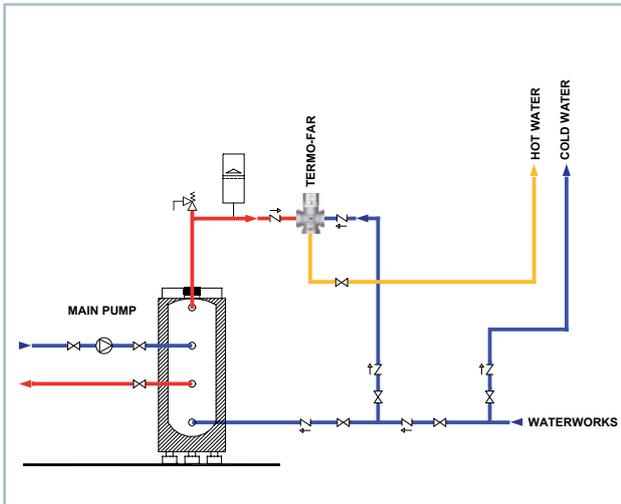


4. INSTALLATION

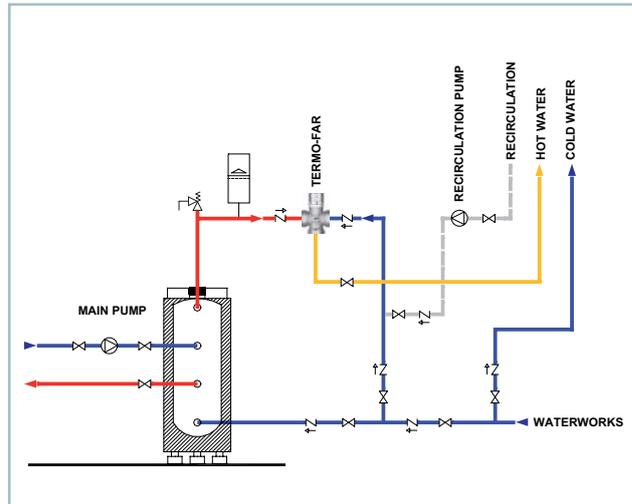
- Before installation carefully clean the pipes to remove any sand, metal shavings and rust flakes in order to guard against any blockage of the shutter
- Installation of strainers is recommended to keep the system free of impurities, which could impair mixer operation
- In systems with thermostatic mixers it is necessary to install non-return valves to avoid undesirable back flow. Moreover, if the hydraulic network has a pressure higher than 5 bar, a pressure reducing valve must be installed
- The mixer can be installed at any position
- During installation it is important to match the connections as shown on mixer body: HOT for hot water supply; COLD for cold water supply and MIX for mixed water outlet

Installation overview

Domestic hot water distribution without recirculation

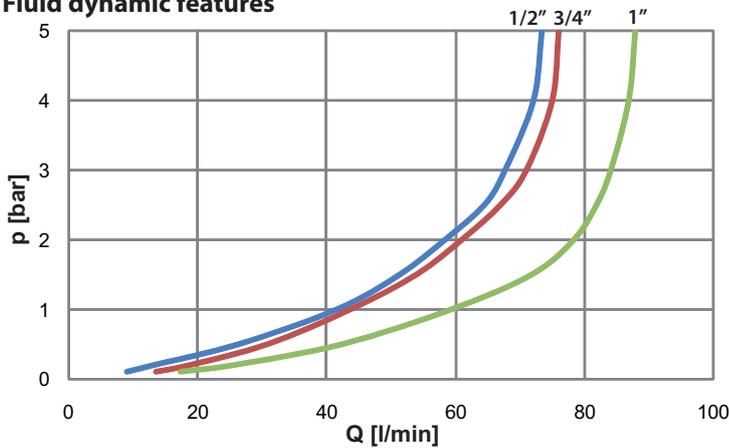


Domestic hot water distribution with recirculation



5. TECHNICAL AND FLUID DYNAMIC FEATURES

Fluid dynamic features

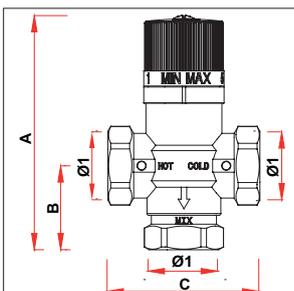


1/2" Kv = 2,2 m³/h
 3/4" Kv = 2,6 m³/h
 1" Kv = 3,6 m³/h

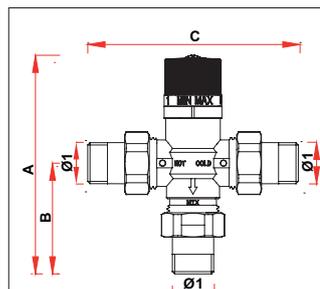
Technical features:

Max. working pressure:	10 bar
Recommended pressure:	1÷5 bar
Max. hot water temperature:	95° C
Setting range:	27°C - 65°C
Body:	CW617N brass
Connections:	1/2" - 3/4" - 1"

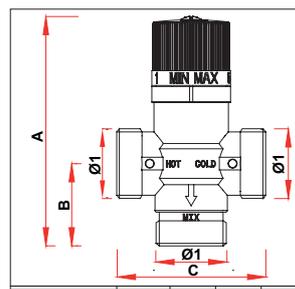
6. DIMENSIONAL FEATURES



CODE	Ø1	A	B	C
3950 12	G1/2	108	38	66
3950 34	G3/4	109	39	70
3950 1	G1	112	42	74



CODE	Ø1	A	B	C
3956 34	G3/4	141	71	135



CODE	Ø1	A	B	C
3957 34	G3/4	108	38	66
3957 1	G1	109	39	70