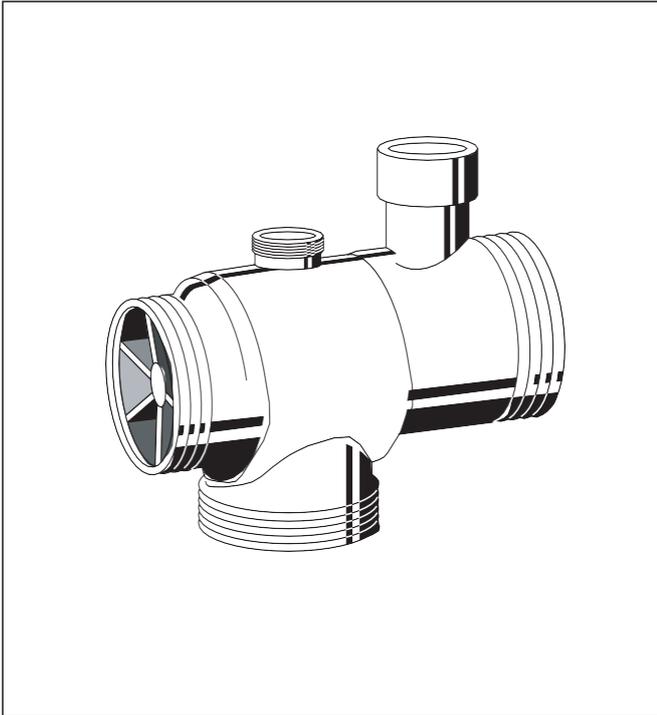


Thermostatic mixing valve with scald protection

Product specification sheet



Construction

The thermostatic mixing valve comprises:

- Housing
- Cut-off switch
- Thermostat

Materials

- Red bronze housing
- Stainless steel cut-off switch

Application

Standard thermostatic mixing valves TM3400/TM3410 are used in domestic hot water central heating systems with or without recirculation. The aim is to maintain a constant temperature of the mixed water for users, by varying the temperature of the hot water stored. Thermostatic mixing valves also have applications in underfloor heating applications and in alternative energy systems, such as solar and woodchip systems.

Special Features

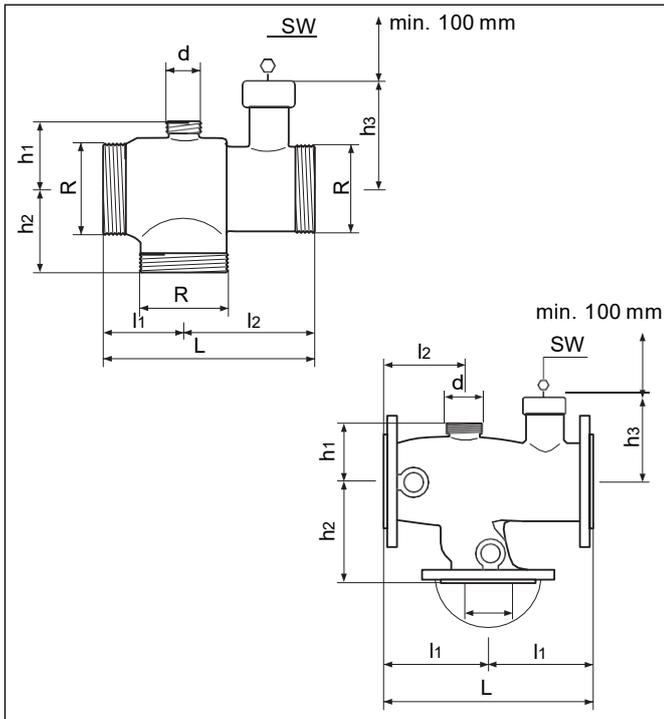
- Wide flow
- Lightness
- High degree of adjustment precision
- Scald protection
- Works without external energy
- Direct connection to recirculation circuit
- Complete with female inlet couplings
- Reliable and proven

Range of Application

Medium Water

Technical Data

Hot water inlet temperature	Max. 90 °C
Operating pressure	Max. 10 bar
Setting ranges	30...45 °C
	Set during manufacture 40 °C
	36...53 °C
	Set during manufacture 48 °C
	45...65 °C
	Set during manufacture 55 °C
Control accuracy	± 1 K
Differential pressure	Max. 2 bar
⊗p hot-cold water	
Flow rate	see diagram
Connection size	1" - 2"



Method of Operation

The highly sensitive thermal element located in the outlet of the mixing valve controls a plug which regulates the flow proportions of cold and hot water in relation to the mixed hot water setting selected.

Options

Setting range 30...45 °C Set during manufacture 40 °C

745-9011 with external thread connections 1"

745-9012 with external thread connections 1 1/4"

745-9013 with external thread connections 1 1/2"

745-9014 with external thread connections 2"

Setting range 45...65 °C Set during manufacture 55 °C

745-1231-55 with external thread connections 1 1/4"

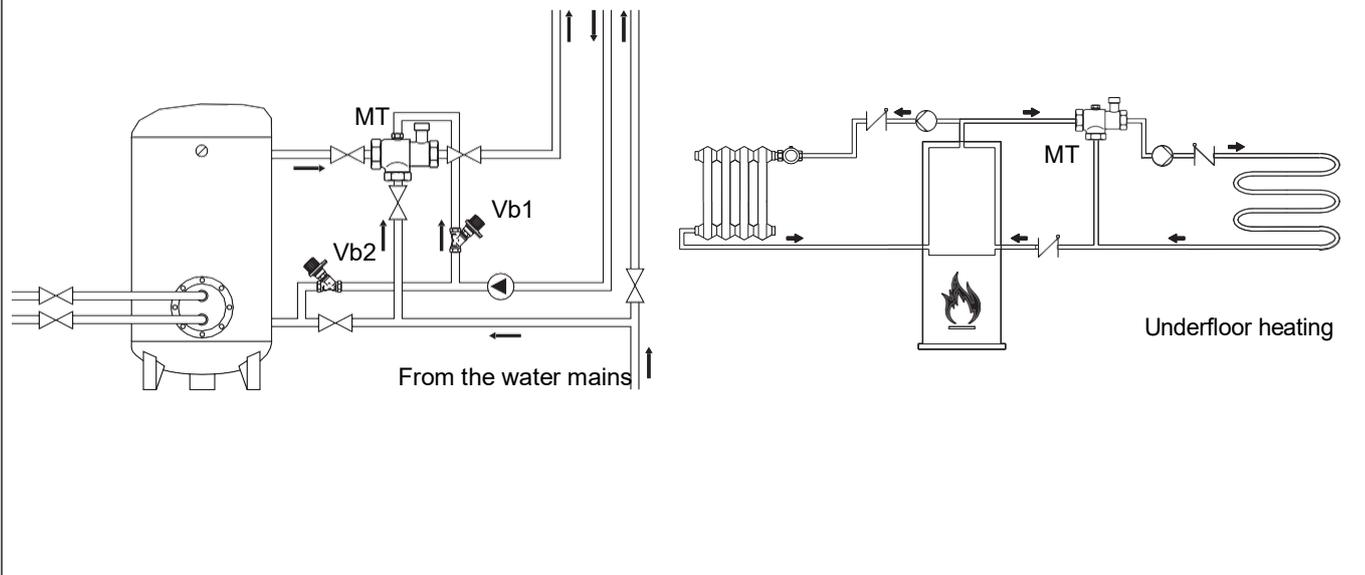
7459013-55 with external thread connections 1 1/2"

Connection size	R	1"	1 1/4"	1 1/2"	2"
	DN				
Dimensions	(mm)				
	L	110	130	150	180
	l ₁	43	52	58	70
	l ₂	67	78	92	100
	h ₁	36	41	50	60
	h ₂	43	52	58	70
	h ₃	51	75	77	85
	d	3/4"	3/4"	3/4"	3/4"
	SW	5	5	5	5
Weight	approx. kg	0.87	1.60	2.10	3.37

Installation Example

MT = Thermostatic mixer

Vb1-Vb2 = Kombi-4 balancing valve



Installation Guidelines

- The thermostatic mixing valves can be installed in any position
- With any connections to be welded, during welding remove the mixer so as not to damage the thermostat and seals
- It is recommended that interception valves are installed on the connection ways to the mixer
- The polystyrene packaging may be used as insulation for the valve

Typical Applications

Due to the special features of standard thermostatic mixing valves they are used in all installations where a temperature control of mixed water is required with a high precision of adjustment. Suitable for installation in water supply systems and also in industrial and commercial installations

The following are some typical applications:

- private individual or multiple family residences
- rest homes
- day-care centres and schools
- hotels and campsites
- businesses
- barracks
- industrial and commercial buildings
- sports centres and swimming pools
- alternative energy systems

Flow Diagram

