CONTROL AND SECURITY

THERMOSTATIC MIXING VALVE STH

The thermostatic mixing valve is used to obtain a distribution of sanitary hot water at constant and adjustable temperature. Automatic fluid control ensures good hot water management by no water or energy loss in adjusting the temperature to the desired level. In addition, heat loss in pipes is reduced.

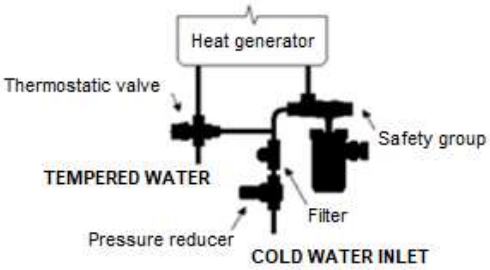
Using these valves improves the performance of hot water accumulators and results in a regular water distribution. Normally water heaters supply water at a temperature around 55 ÷ 60 ºC, to prevent the development of legionella bacteria. Water at a temperature above 43 ºC can already cause major burns. Keep in mind that most hot water burn accidents occur at home.

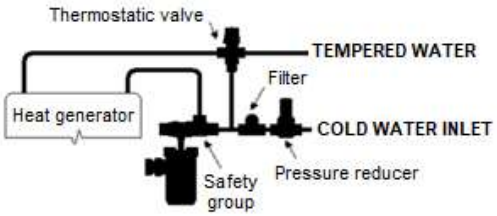
All users agree that a thermostatic mixing valve can save 30% energy compared to a single mixing valve. In individual installations, the equipment is amortized in a short period of time.

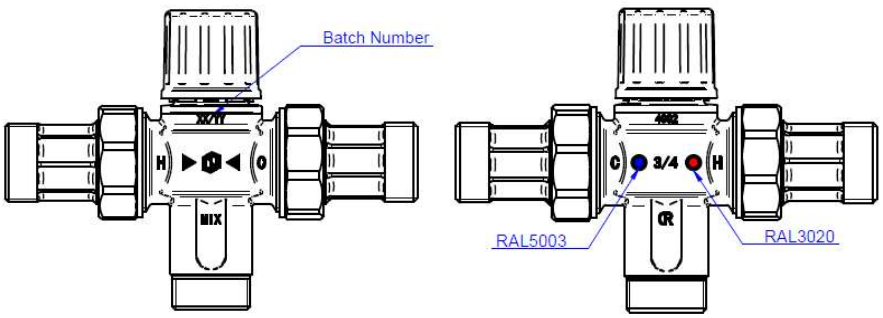
This product fulfill the standard requirements TMV2 and TMV3. In addition, it has been independently tested by the renowned NSF Wales testing laboratory and is an *approved Water Regulations Advisory Scheme* (WRAS) product.

Advantatges

· It allows to dissociate the temperature of the stored hot water from the temperature of the water that is distributed.
· Save the hot water
· Increases the volume of distributed hot water.
· Safety in accordance with regulations.
· Longevity of the installation.
· Thermostatic element on the outlet shaft of mixed water that allows for greater sensitivity/precision ratio.
· Cutting the hot water circuit in case of breakage of the cold water circuit.
· Low pressure drop, allowing high yields.
· Head with locking system.







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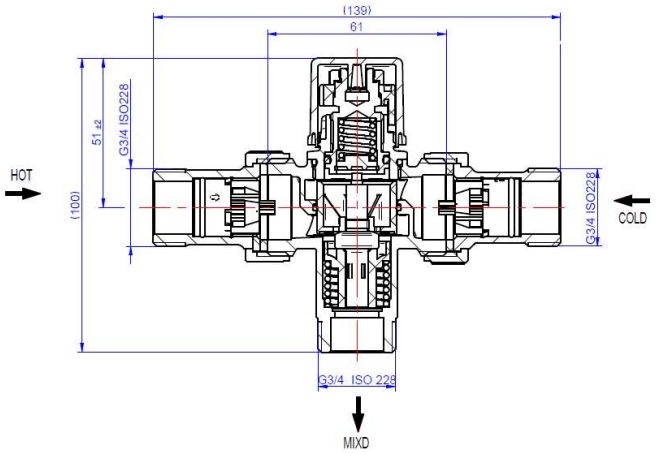
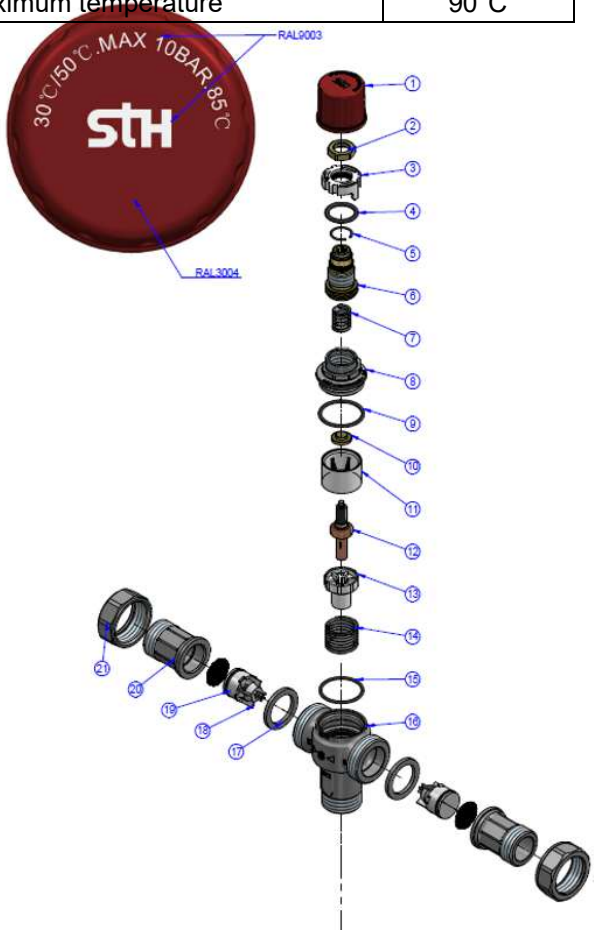
THERMOSTATIC MIXING VALVE STH

Technical characteristics



PERFORMANCE	
Cold water supply temperature	5°C～20°C
Hot water supply temperature	55°C～65°C
Temperature adjustement range	30°C～50°C
Factory-set temperature of the thermostatic controller	41°C
Accurancy of outlet temperature	±2°C
Minimum temperature diferential (between hot supply and outlet temperature)	12°C
Supply pressure, static	10 bar
Supply pressure, dynamic	5 bar
Supply pressure imbalance dynamic	2:1
Minimum flow rate	5 Litres/min
Maximum temperature	90°C

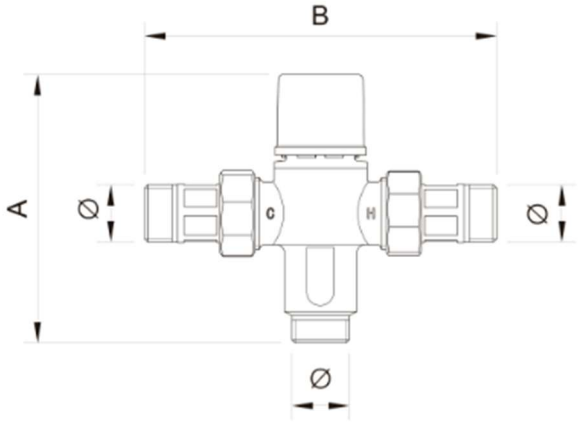
Nº	NAME	MATERIAL
1	Cap	ABS
2	Locking cap	Brass UNE-EN 12165-12164
3	Locating ring	POM+25%GF
4	O-ring	EPDM with WRAS approved
5	Circlip	AISI 304
6	Stem	Brass UNE-EN 12165-12164
7	Spring	AISI 304
8	Bonnet	Brass UNE-EN 12165-12164
9	O-ring	EPDM with WRAS approved
10	Block	Brass UNE-EN 12165-12164
11	Piston	PSU
12	O-ring	EPDM with WRAS approved
13	Thermostat	Subassembly
14	Water flow directors	PSU
15	Spring	AISI 304
16	Valve body	Brass UNE-EN 12165-12164
17	Joint	EPDM with WRAS approved
18	Check valve	Element with WRAS approved
19	Filter	AISI 304
20	Connect pipe	Brass UNE-EN 12165-12164
21	Union nut	Brass UNE-EN 12165-12164



CONTROL AND SECURITY

THERMOSTATIC MIXING VALVE STH

Thermostatic mixing valve



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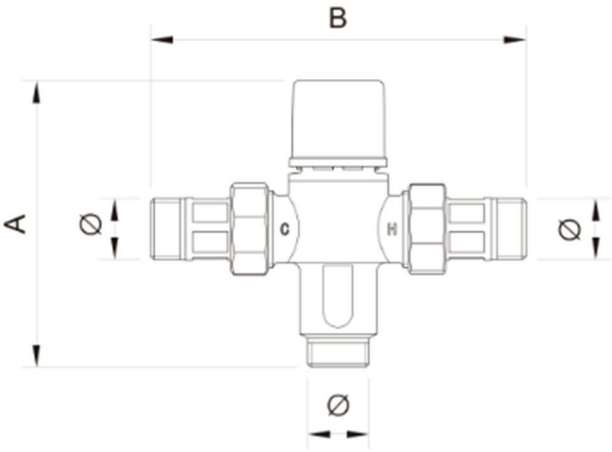

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31449	1/2"

CONTROL AND SECURITY

THERMOSTATIC MIXING VALVE STH

Hydraulic curve