THERMOSTATIC MIXING VALVE BASIC SERIES VTA370, VTA570

The ESBE thermostatic mixing valves series VTA370 and VTA570 offer high flow capacity and high functionality in heating applications.







VTA370 External thread

Pump flange/ External thread

Rotating nut/ External thread



VALVES ARE DESIGNED FOR

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Series

VTA370

VTA570 VTA370

VTA570

VTA370

VTA570

VTA370

VTA570

VTA370

VTA570 VTA370

VTA570

Temperature range

55°C

g

recommended of secondary alternative

provide point of use protection.

External thread

Pump flange/

70°C

- 8

External thread



Rotating nut/ External thread

Application

Solar heating

Floor heating

Cooling

Heating

Potable water, in line

Potable water, point of use

OPERATION

The series VTA370 and VTA570 are the number one choice for heating and cooling applications. The valves provide a scald safe* function, which is important in order to protect e.g. under floor heating pips and also the floor itself from to uncontrolled rise of temperature.

FUNCTION

The Valves have asymmetrical flow pattern and scaled safe* function. Depending form valve version a mixing temperature can be set in following ranges: 10-30°C, 20-55°C or 30-70°C. The wax element reacts on the water temperature and moves the cone to mix cold and hot water achieving desired, set mixed temperature.

VERSIONS

The valves are available with external thread, pump flange and rotary nut. Three different temperature ranges give possibility to choose right valve for the right application, e.g.: 10-30°C for cooling, 20-55°C for underfloor heating or 30-70°C for radiators heating. The valves are equipped with a big setting knob.

MEDIA

These valves can handle the following types of media:

- Water
- Heating water
- Water with antifreeze additive (glycol \leq 50% mixture)

*) Scald safe means that in the case of a cold water failure, the hot water supply shuts off automatically.

TECHNICAL DATA

Pressure class:	PN 10
Working pressure:	1.0 MPa (10 bar)
Differential pressure, mixing:	
VTA570	max. 0.3 MPa (3 bar)
VTA370	max. 0.1 MPa (1 bar)
Pressure drop diagram:	see diagram
Max. media temperature:	
Temp. range 10–30°C	65°C
Temp. range 20–55, 30–70°C	continuously 95°C
	temporarily 100°C
Min. media temperature:	0°C
Temperature stability:	
Temp. range 10–30°C	±2°C*
Temp. range 20–55, 30–70°C	±3°C**
Connection:	External thread (G). ISO 228/1

Material

Valve housing and other metal parts with fluid contact: ______ Dezincification resistant brass, DZR * Valid at unchanged cold/return water pressure, minimum flow rate 9 l/min. Minimum temperature difference between cold water inlet and mixed water outlet 3°C and recommended maximum temperature difference between return water and mixed water outlet: 10°C.

1) Mandatory temperature control devices has to be installed at the water taps to

** Valid at unchanged hot/return water pressure, minimum flow rate 9 I/min. Minimum temperature difference between hot water inlet and mixed water outlet 10° C and recommended maximum temperature difference between return water and mixed water outlet: 10° C.

PED 2014/68/EU, article 4.3

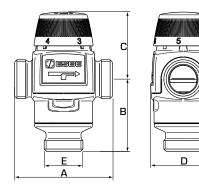
Pressure Equipment in conformity with PED 2014/68/EU, article 4.3 (sound engineering practice). According to the directive the equipment shall not carry any CE-mark.

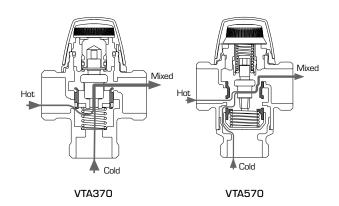




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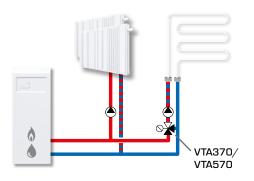
SERIES VTA372/VTA572, EXTERNAL THREAD

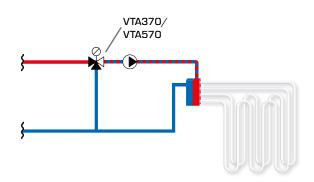
0.1.01	Reference	Temp. range	Kvs*	Connection		Dime	nsion	Weight		
Art. No.				E	Α	В	С	D	[kg]	Replaces
31700100	VTA572	10 - 30°C	4.5	G 1"	84	62	60	56	0.86	
31700400	VIA572	10-30 C	4.8	G 11⁄4"	84				0.95	
31200100	VTA372	20 - 55°C	3.4	G 1"	70	42	52	46	0.44	
31702100	VTA572	20 - 55°C	4.5	G 1"	84	62	60	56	0.86	
31702200	1702200	20-55 6	4.8	G 11⁄4"	84	02			0.95	
31200400	VTA372	30 - 70°C	3.4	G 1"	70	42	52	46	0.48	31105400
31702500	VTA572	30 - 70°C	4.5	G 1"	84	62	60	56	0.86	31700300
31702600	02600	30-70 6	4.8	G 1¼"	04				0.95	31700600

 * Kvs-value in m³/h at a pressure drop of 1 bar

INSTALLATION EXAMPLES

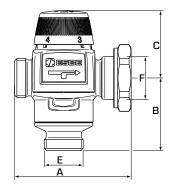
See the catalogue section "How to choose the correct installation/ position" for further information and connection examples.

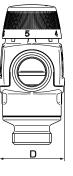


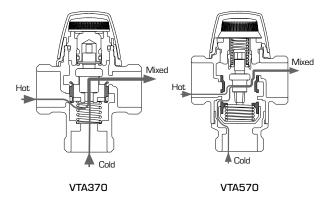




THERMOSTATIC MIXING VALVE BASIC SERIES VTA370, VTA570







SERIES VTA377/VTA577, PUMP FLANGE AND EXTERNAL THREAD

Art. No.	Reference		Kvs*	Conn	ection		Dime	nsion		Weight	Note
Art. NO.	Reference	Temp. range	KVS "	E	F	А	В	С	D	[kg]	NULE
31200200	VTA377	20 - 55°C	3.4	G 1"	PF 1½"	86	42	52	57	0.58	
31702300	VTA577		4.5			100	62	60	57	0.99	

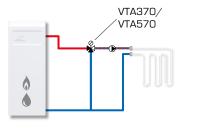
SERIES VTA378/VTA578, ROTATING NUT AND EXTERNAL THREAD

Art. No.	Deference	Tomp poppo	Kuo *	Conn	ection		Dime	nsion		Weight	Note
Art. NO.	Reference	Temp. range	Kvs*	Е	F	А	В	С	D	[kg]	NULE
31200300	VTA378	20 - 55°C	3.4	G 1"	BN 1"	78	42	52	56	0.48	
31702400	VTA578		4.5	61	HIN T	93	62	60	56	0.91	
* Kya valua in m^3/h at a pressure doep of 1 hap $DE = Dypp Elange DN = Batating Nut$											

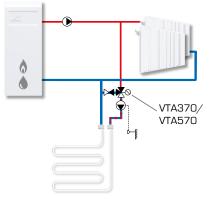
* Kvs-value in m^3/h at a pressure drop of 1 bar PF = Pump Flange, RN = Rotating Nut

INSTALLATION EXAMPLES

See the catalogue section "How to choose the correct installation/ position" for further information and connection examples.



VTA370/ VTA570



Heating

Cooling

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THERMOSTATIC MIXING VALVE BASIC SERIES VTA370, VTA570

CAPACITY DIAGRAM

