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

VTA570 External thread



Pump flange/ External thread



Rotating nut/ External thread



Pump flange/ External thread



Rotating nut/ External thread

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 pipes 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 radiator 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 ≤ 50% mixture)
- *) Scald safe means that in the case of a cold water failure, the hot water supply shuts off automatically.

VALVES ARE DESIGNED FOR

	Temp	erature i	range	
Series	10 - 30°C	20 - 55°C	30 - 70°C	Application
VTA370				Ph
VTA570				Potable water, in line
VTA370				F
VTA570				Potable water, point of use
VTA370				Calan baseina
VTA570				Solar heating
VTA370				Cooling
VTA570	•			Cooling
VTA370		•		Floor heating
VTA570		•		Floor fleating
VTA370		0	•	Radiator heating
VTA570		0	•	nadiator rieating

• recommended o secondary alternative

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)
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:	
Temperature stability:	
Temp. range 10-30°C	±2°C*
Temp. range 20–55, 30–70°C	±3°C**
Connection:Exter	
	,
Material	
Valve housing and other metal parts	with fluid contact:
Dezincific	cation 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.
- $\star\,^\star$ Valid at unchanged hot/return water pressure, minimum flow rate 9 l/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.

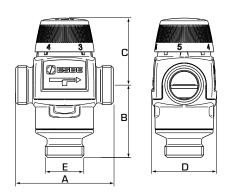


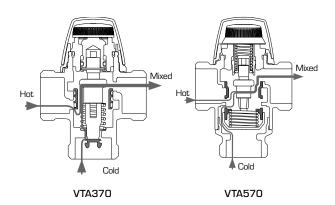






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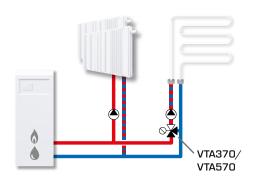
SERIES VTA372/VTA572, EXTERNAL THREAD

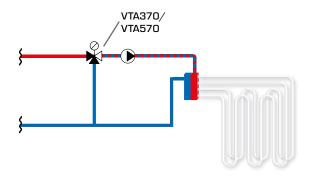
Art. No.	Reference	Temp. range	Kvs*	Connection	^	Dimension A B C D			Weight	Replaces	
				Е	A	Ь	L L	D	[kg]		
31700100	VTA572	10 - 30°C	4,5	G 1"	84	62 42	60 52	56	0,86		
31700400	VIAS/2	10-30-6	4,8	G 11/4"	84				0,95		
31200100	VTA372	20 - 55°C	3,4	G 1"	70			46	0,44		
31702100	VTA572	20 - 55°C	4,5	G 1"	84	62	60	56	0,86		
31702200	VIAS/2	20-55 C	4,8	4,8 G 11/4"	02	62 60	36	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	F0	0,86	31700300	
31702600	VIA5/2		4,8 G 11⁄4"	64	62	60	56	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.



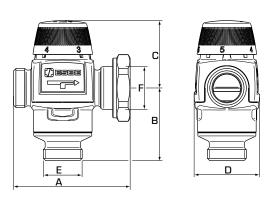


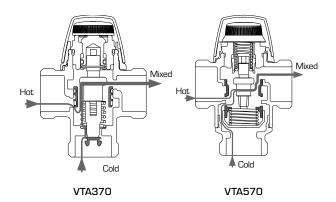
The shown applications are only examples of product use!

Before using the product in any application, the regional and national regulations need to be checked.



BASIC SERIES VTA370, VTA570





▼ SERIES VTA377/VTA577, PUMP FLANGE AND EXTERNAL THREAD

Art. No.	Reference	Temp. range	Kvs*	Connection		Dimension				Weight	Note
				E	F	Α	В	С	D	[kg]	INOLE
31200200	VTA377	20 - 55°C	3,4	G 1"	DE 41/1	86	42	52	56	0,58	
31702300	VTA577		4,5	6 1"	PF 11/2"	100	62	60	56	0,99	

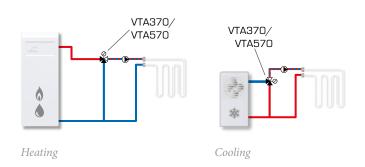
▼ SERIES VTA378/VTA578, ROTATING NUT AND EXTERNAL THREAD

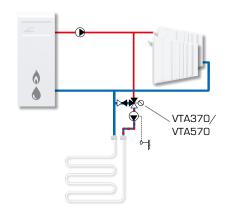
Out No	Defenses	T	16 - *	Connection		Dimension				Weight	Note	
	Art. No.	Reference	Temp. range	Kvs*	Е	F	Α	В	С	D	[kg]	Note
	31200300	VTA378	20 - 55°C	3,4	G 1"	BN 1"	78	42	52	46	0,48	
	31702400	VTA578	20 - 55 C	4,5	GI	HIN I	93	62	60	56	0,91	

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

INSTALLATION EXAMPLES

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CAPACITY DIAGRAM

