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 radiators heating. The valves are equipped with a big setting knob.

MEDIA

These valves can handle the following types of media:

- Water
- Heating water

TECHNICAL DATAPressure class:

- 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				P-t-N
VTA570				Potable water, point of use
VTA370				Solar heating
VTA570				Solar Treating
VTA370				Cooling
VTA570	•	•		The Cooling
VTA370		•		Floor heating
VTA570		•		Tool fleating
VTA370			•	Heating
VTA570			•	Tieauity

• recommended o secondary alternative

1.0 MPa (10 bar)
_max. 0.3 MPa (3 bar)
_max. 0.1 MPa (1 bar)
see diagram
65°C
continuously 95°C
temporarily 100°C
0°℃
±2°C*

Material

Connection: _

Valve housing and other metal parts with fluid contact:

etal parts with fluid contact:
_ Dezincification resistant brass, DZR

_____External thread (G), ISO 228/1

- * 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.
- $^{*}\,^{*}\,^{'}$ 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.

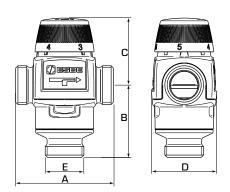


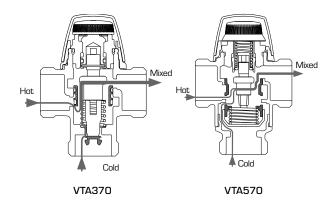
PN 10

±3°C**

Temp. range 20-55, 30-70°C _

BASIC SERIES VTA370, VTA570





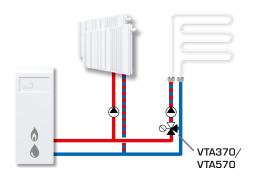
▼ SERIES VTA372/VTA572, EXTERNAL THREAD

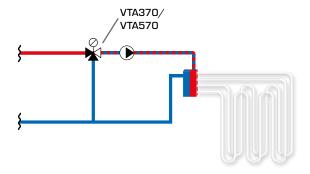
Art. No.	Reference	Temp. range	Kvs*	Connection E	Dimensior A B C			D	Weight [kg]	Replaces	
					· · ·	_	_				
31700100	VTA572	10 - 30°C	4.5	G 1"	84	62	60	56	0.86		
31700400	VIAJ/E	10-30-6	4.8	G 11/4"	04				0.95		
31200100	VTA372	20 - 55°C	3.4	G 1"	70	42	52	46	0.44		
31702100	VTAE70	00 5500	4.5	G 1"	84	62	60	56	0.86		
31702200	VTA572	20 - 55°C	4.8 G 11/4"	60	36	0.95					
31200400	VTA372	30 - 70°C	3.4	G 1"	70	42	52	46	0.48	31105400	
31702500	VTA572	00.7000	4.5	G 1"	84	84 62	60	56	0.86	31700300	
31702600	VIAS/2	30 - 70°C	4.8	G 11/4"	84	02	60	36	0.95	31700600	

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

INSTALLATION EXAMPLES

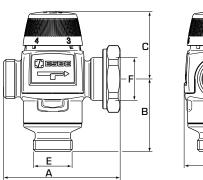
See the catalogue section "How to choose the correct installation/position" for further information and connection examples.



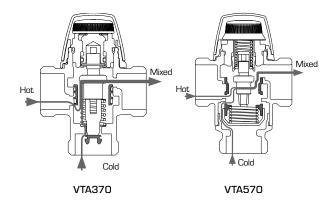




BASIC SERIES VTA370, VTA570







▼ SERIES VTA377/VTA577, PUMP FLANGE AND EXTERNAL THREAD

Art. No.	Reference	Temp. range	Kvs*	Connection		Dimension				Weight	Note
Art. No.				Е	F	Α	В	С	D	[kg]	INOLE
31200200	VTA377	20 - 55°C	3.4	C 411	PF 1½"	86	42	52	57	0.58	
31702300	VTA577		4.5	G 1"	PF 1/2	100	62	60	57	0.99	

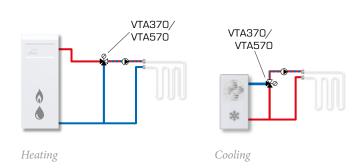
▼ SERIES VTA378/VTA578, ROTATING NUT AND EXTERNAL THREAD

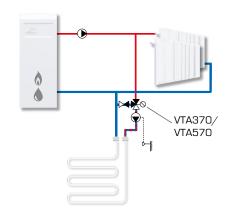
Art. No.	Defenence	Town nones	Kun*	Conn	ection		Dime	nsion		Weight	Note	
Art. No.	Reference	Temp. range	Kvs*	Е	F	Α	В	С	D	[kg]	Note	
31200300	VTA378	20 - 55°C	3.4	G 1"	BN 1"	78	42	52	56	0.48		
31702400	VTA578		4.5	GI	HIN I	93	62	60	56	0.91		

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

INSTALLATION EXAMPLES

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







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CAPACITY DIAGRAM

