## **BASIC SERIES VTA350, VTA550**

The ESBE thermostatic mixing valves series VTA350 and VTA550 offer high flow capacity and good functionality for universal applications, such as domestic hot water with or without HWC (hot water circulation).

#### **OPERATION**

The series VTA350/VTA550 are the number one choice for domestic hot water systems requiring an in-line scald safe\* function and where further temperature control devices have been installed at the water taps. These series of valves are also suitable for domestic hot water installations equipped with HWC (hot water circulation).

### **FUNCTION**

Symmetrical flow pattern. Scald safe\*.

## **VERSIONS**

The product range includes a wide choice of valves delivered with integrated check valves, or with adapter fitting kits, each including three adapter fittings and two check valves, which facilitate easy installation and maintenance.

Supplied with a top cover, unless otherwise stated.

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

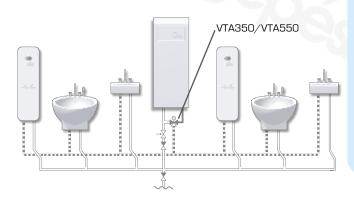
### **MEDIA**

These valves can handle the following types of media:

- Fresh water / Potable water
- Closed systems
- Water with antifreeze additive (glycol ≤ 50% mixture)

### **INSTALLATION EXAMPLES**

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











VTA350 Internal thread

thread External thread

External thread, with check valves

Compression fitting





VTA550 External thread

With adapters, external thread

### **VALVES ARE DESIGNED FOR**

	Temperature range			nge	Q.
Series	20 - 43°C	32 - 60°C	45 - 65°C	50 - 75°C	Application
VTA350		•			P*
VTA550	•		•	•	Potable water, in line
VTA350					Potable water, point of use
VTA550					Potable water, point of use
VTA350					Solar heating
VTA550					Solair fleating
VTA350					Cooling
VTA550					The Cooling
VTA350					Floor heating
VTA550	0				Tibbl fleating
VTA350					Radiator heating
VTA550			0	0	Tradition Treating

• recommended • o secondary alternative

## **TECHNICAL DATA**

Pressure class:	PN 10
Working pressure:	1,0 MPa (10 bar)
Differential pressure:	Mixing, max. 0,3 MPa (3 bar)
Media temperature: VTA350, V	/TA550 max. 95°C
VTA550 _	temporarily max. 100°C
Temperature stability: VTA350	±2°C*
VTA550	±4°C**
Connection:Ir	nternal thread (Rp), EN 10226-1
	External thread (G), ISO 228/1
F	External thread (R), EN 10226-1
Comp	ression fitting (CPF), EN 1254-2

- $^{\star}$  Valid at unchanged hot/cold water pressure, minimum flow rate 4 l/min. Minimum temperature difference between hot water inlet and mixed water outlet 10°C.
- $^{*}\,^{*}$  Valid at unchanged hot/cold water pressure, minimum flow rate 9 l/min. Minimum temperature difference between hot water inlet and mixed water outlet 10°C.

### Material

Valve housing and other metal parts with fluid contact:

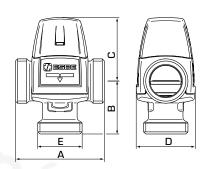
\_\_\_\_\_\_ Dezincification resistant brass, DZR

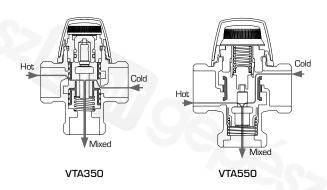
### PED 2014/68/EU, article 4.3

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.



# **BASIC SERIES VTA350, VTA550**





## SERIES VTA351, INTERNAL THREAD

0 . 01	Reference	Temp. range	Kvs*	Connection	Dimension				New	Weight
Art. No.				Е	Α	В	С	D	Note	[kg]
31104900	VTA351	35 - 60°C	1,6	Rp 3/4"	70	42	52	46		0,48

## SERIES VTA352/ VTA552, EXTERNAL THREAD

		_	16.0	Connection		Dimension				Weight
Art. No.	Reference	Temp. range	Kvs*	Е	Α	В	С	D	Note	[kg]
31105000	VTA352	35 - 60°C	1,5	G 3/4"	70	42	52	46		0,45
31105100	VIA352	35-60-6	1,6	G 1"	/0			40		0,48
31660100	VTA552	20 - 43°C	3,2	G 1"	84	50	60	56		0,78
31660400	VIADDZ	20-43 C	3,5	G 11⁄4"				56		0,87
31660200	VTA552	4E CE°C	3,2	G 1"	84	50	60	56		0,78
31660500	VIADDZ	45 - 65°C	3,5	G 11⁄4"	84			36		0,87
31660300	VITAGEO	50 - 75°C	3,2	G 1"	84	50	60	56		0,78
31660600	VTA552		3,5	G 11⁄4"	ō4			ا ا		0,87

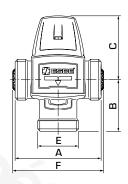
## SERIES VTA353, COMPRESSION FITTINGS

Art. No.	Reference	Temp. range	Kvs*	Connection E	А	Dimension		Note	Weight [kg]	
										1. 01
31105200	VTA353	35 - 60°C	1,5	CPF 22 mm	70	42	52	46		0,57

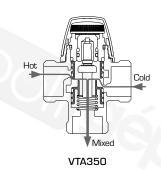
<sup>\*</sup> Kvs-value in  $m^3/h$  at a pressure drop of 1 bar. CPF = compression fitting



# **BASIC SERIES VTA350, VTA550**



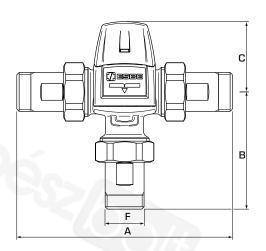


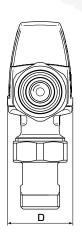


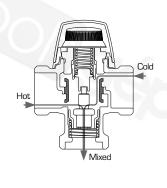
## SERIES VTA352, EXTERNAL THREAD AND INTEGRATED CHECK VALVES

0 . 1	D. (	_	16	Connection		D	N	Weight			
Art. No.	Reference	Temp. range	Kvs*	Е	Α	В	С	D	F	Note	[kg]
31106100	VTA352	35 - 60°C	1,5	G 1"	70	42	52	46	74	1)	0,48

 $<sup>^{\</sup>star}$  Kvs-value in m³/h at a pressure drop of 1 bar. Note 1] Two check valves for both hot and cold water are integrated







VTA550

## SERIES VTA552, WITH ADAPTERS

Art. No.	Reference	Temp. range	Kvs*	Connection F	А	Dimension A B C D		D	Note	Weight [kg]
31660700	VTA552	20 - 43°C	3,0	R 3/4"	154	85	60	56	1)	1,14
31661000	VTA552		3,4	R 1"	164	90				1,51
31660800	VTA552	45 - 65°C	3,0	R 3/4"	154	85	60	56	1)	1,14
31661100	VTA552		3,4	R 1"	164	90				1,51
31660900	VTA552	50 - 75°C	3,0	R 3/4"	154	85	60		1)	1,14
31661200	VTA552		3,4	R 1"	164	90		56		1,51

\* Kvs-value in m³/h at a pressure drop of 1 bar. Note 1] Two check valves for both hot and cold water are included



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## **CAPACITY DIAGRAM**

