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 which facilitate easy installation and maintenance.

Supplied with a top cover, unless otherwise stated.

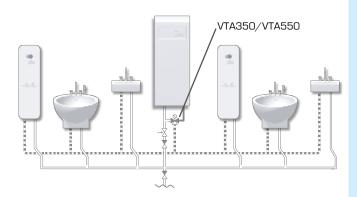
*) Scald safe means that in the case of a cold water failure, the hot water supply shuts off automatically.

MFDΙΔ

These valves can handle the following types of media:

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

INSTALLATION 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.









VTA350 Internal thread

External thread

External thread, with check valves

Compression fitting



VTA550 External thread

VALVES ARE DESIGNED FOR

	Ten	nperat	ure ra	nge	
Series	20 - 43°C	35 - 60°C	45 - 65°C	50 - 75°C	Application
VTA350		•			PM
VTA550	•		•	•	Potable water, in line
VTA350					The second secon
VTA550					Potable water, point of use
VTA350					Solar heating
VTA550					Solal Heading
VTA350					Cooling
VTA550					** Cooling
VTA350					Floor heating
VTA550	0				Tion ricading
VTA350					Radiator heating
VTA550			0	0	Tradiawi Fleating

[•] 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, VTA550 max. 95°C	
VTA550temporarily max. 100°C	
Temperature stability: VTA350 ±2°C*	
VTA550±4°C**	
Connection:Internal thread (Rp), EN 10226-1	
External thread (G), ISO 228/1	
External thread (R), EN 10226-1	
Compression fitting (CPF), EN 1254-2	

- * 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.

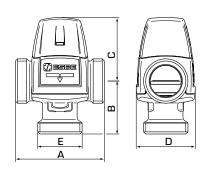
Material

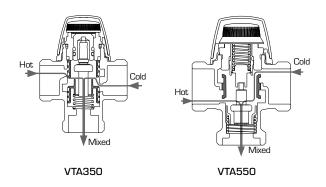
PED 2014/68/EU, article 4.3 / SI 2016 No. 1105 (UK)

Pressure Equipment in conformity with PED 2014/68/EU, article 4.3 and Pressure Equipment (Safety) Regulations 2016, (sound engineering practice). According to the directive/regulation the equipment shall not carry any CE or UKCA mark.



BASIC SERIES VTA350, VTA550





SERIES VTA351, INTERNAL THREAD

0 . 1	Reference	_	17. *	Connection	Dimension					Weight
Art. No.		Temp. range	Kvs*	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

Art. No.	Reference	Temp. range	Kvs*	Connection E	А	Dimension A B C [D	Note	Weight [kg]
31105000	\/T4.0E0		1,5	G ¾"	70	42	52	46		0,45
31105100	VTA352	35 - 60°C	1,6	G 1"	70					0,48
31660100	\/TAFE0	00 4000	3,2	G 1"	84	50	60	56		0,78
31660400	VTA552	20 - 43°C	3,5	G 11/4"						0,87
31660200	\/TAEE0	4E CE°C	3,2	3,2 G 1"	0.4	50	60	EC		0,78
31660500	VTA552	45 - 65°C	3,5	G 11/4"	84			56		0,87
31660300	VTAFFO	E0 75°0	3,2	G 1"	84	4 50	60	FC		0,78
31660600	VTA552	VTA552 50 - 75°C	3,5	G 11/4"			60	56		0,87

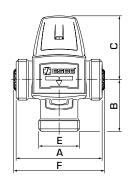
SERIES VTA353, COMPRESSION FITTINGS

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

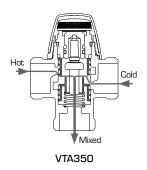
^{*} Kvs-value in m³/h at a pressure drop of 1 bar. CPF = compression fitting



BASIC SERIES VTA350, VTA550







SERIES VTA352, EXTERNAL THREAD AND INTEGRATED CHECK VALVES

Art. No.	Reference	_	17. *	Connection		D		Weight			
		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

^{*} 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



BASIC SERIES VTA350, VTA550

CAPACITY DIAGRAM

