

THERMOSTATIC MIXING VALVE

PREMIUM SERIES VTA330, VTA530

The ESBE thermostatic mixing valves series VTA330 and VTA530 are designed to satisfy the highest possible market requirements when it comes to accuracy of regulation, quick reaction and safe function with high flow capacity, regardless of varying pressure conditions.

OPERATION

Series VTA330 is primarily designed to provide a highly accurate temperature regulation in point-of-use positions for domestic hot water, at taps or showers where no further temperature-control fittings have been installed.

Series VTA530 is primarily designed to provide an accurate in-line temperature regulation of the domestic hot water in high flow applications, according to standards EN15092 or EN1111/NF079, where further temperature-control fittings have been installed at taps or showers.

FUNCTION

The quick reaction thermostat and the pressure balanced control valve regulator allow the VTA330/VTA530 to provide minimal changes of temperature regardless of varying pressure conditions. Asymmetrical flow pattern. Scald safe*.

VERSIONS

The product range includes a wide choice of valves delivered 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)



VTA330
External thread



Compression fitting



VTA530
External thread



With adapters,
external thread



With adapters,
compression fitting

VALVES ARE DESIGNED FOR

Series	Temperature range				Application
	32 - 49°C	35 - 50°C	35 - 60°C	45 - 65°C	
VTA330	○		●		Potable water, in line
VTA530		●		●	
VTA330	●		○		Potable water, point of use
VTA530					
VTA330					Solar heating
VTA530		○		○	
VTA330					Cooling
VTA530					
VTA330	○		○		Floor heating
VTA530		○		○	

● recommended ○ secondary alternative

TECHNICAL DATA

Pressure class: _____ PN 10
 Working pressure: _____ 1.0 MPa (10 bar)
 Differential pressure: _____ Mixing, max. 0.3 MPa (3 bar)
 Pressure drop diagram: _____ see catalogue page 127
 Media temperature: VTA330, VTA530 _____ max. 95°C
 VTA530 _____ temporarily max. 100°C
 Temperature stability: VTA330 _____ ±1°C*
 VTA530 _____ ±2°C**
 Connection: _____ 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

Valve housing and other metal parts with fluid contact:

_____ Dezincification resistant brass, DZR

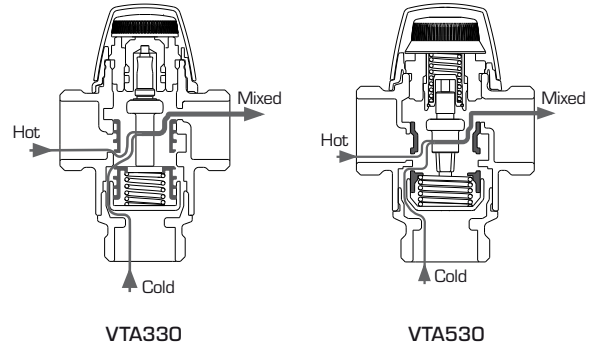
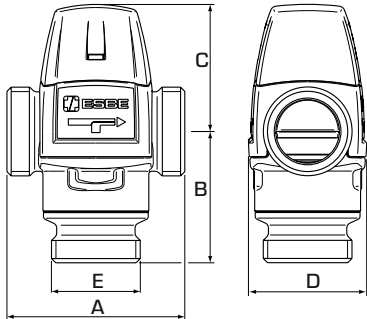
Surface treatment: _____ Nickel-plated

PED 97/23/EC, article 3.3

Pressure Equipment in conformity with PED 97/23/EC, article 3.3 (sound engineering practice). According to the directive the equipment shall not carry any CE-mark.

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➔ SERIES VTA332/VTA532, EXTERNAL THREAD

Art. No.	Reference	Temp. range	Kvs *	Connection E	A	Dimension B	C	D	Note	Weight [kg]
3115 02 00	VTA332	32 - 49°C	1.2	G ¾"	70	54	52	46		0.52
3164 10 00	VTA532	35 - 50°C	2.3	G 1"	84	62	60	56	2)	0.86
3164 11 00			2.5	G 1¼"						0.95
3115 07 00	VTA332	35 - 60°C	1.2	G ¾"	70	54	52	46		0.52
3115 09 00			1.3	G 1"					0.55	
3164 01 00	VTA532	45 - 65°C	2.3	G 1"	84	62	60	56	1)	0.86
3164 02 00			2.5	G 1¼"						0.95

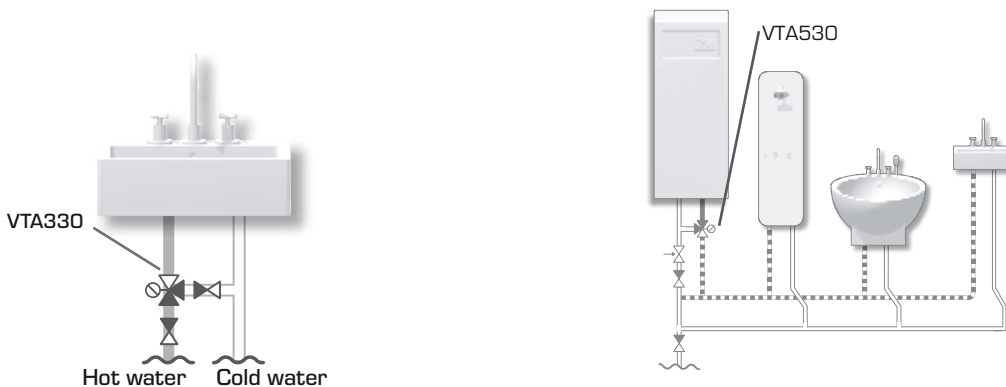
➔ SERIES VTA333, COMPRESSION FITTING

Art. No.	Reference	Temp. range	Kvs *	Connection E	A	Dimension B	C	D	Note	Weight [kg]
3115 03 00	VTA333	35 - 60°C	1.2	CPF 22 mm	86	62	52	46	3)	0.64
3115 21 00				CPF 15/22 mm						0.69

* Kvs-value in m³/h at a pressure drop of 1 bar. CPF = compression fitting
 Note 1) According to standard EN 15092, 2) According to standard EN 1111 + NF079 (France), 3) A non-return valve for the cold water is included.

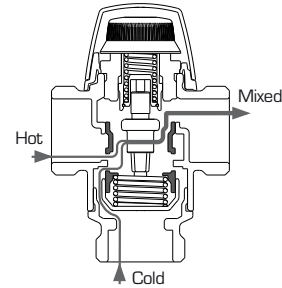
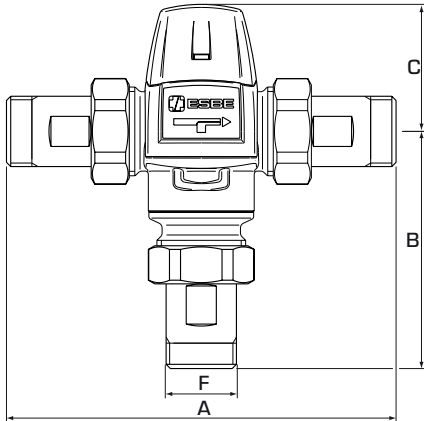
INSTALLATION EXAMPLES

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



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PREMIUM SERIES VTA330, VTA530



VTA530

➔ SERIES VTA532/VTA533, WITH ADAPTERS

Art. No.	Reference	Temp. range	Kvs *	Connection F	A	Dimension B	Dimension C	D	Note	Weight [kg]
3164 12 00	VTA532	35 - 50°C	2.2	R ¾"	154	97	60	56	2), 3)	1.22
3164 14 00	VTA533			CPF 22mm	180	110				1.42
3164 13 00	VTA532		2.5	R 1"	164	102				1.59
3164 15 00	VTA533			CPF 28mm	204	122				1.90
3164 03 00	VTA532	45 - 65°C	2.2	R ¾"	154	97	60	56	1), 3)	1.22
3164 05 00	VTA533			CPF 22mm	180	110				1.42
3164 04 00	VTA532		2.5	R 1"	164	102				1.59
3164 06 00	VTA533			CPF 28mm	204	122				1.90

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

Note 1) According to standard EN 15092, 2) According to standard EN 1111 + NF079 (France), 3) Two check valves for both hot and cold water are included.