PREMIUM SERIES VTS520, VTS550

The ESBE thermostatic mixing valves series VTS520 and VTS550 offer high flow capacity and high functionality for domestic hot water distribution connected to solar heating systems with high water temperatures.







With adapters, external thread



VTS550 External thread



With adapters, external thread

OPERATION

Series VTS520/VTS550 are the number one choice for domestic hot water distribution connected to solar heating systems, where the high water temperatures require extra durable components. The VTS520/VTS550 offers an in-line scald safe* function and are suitable for use 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

VTS520 has asymmetrical flow pattern, VTS550 has symmetrical flow pattern. Scald safe*.

VEDSIONS

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)

VALVES ARE DESIGNED FOR

	Tempe rar	rature ige							
Series	45 - 65°C	50 - 75°C		Application					
VTS520	•	•	PM						
VTS550	•	•	\bigcup^{T}	Potable water, in line					
VTS520			₽.						
VTS550			***	Potable water, point of use					
VTS520	•	•	**	C. 1:					
VTS550	7.0	•		Solar heating					
VTS520			北	Cooling a					
VTS550			XXX	Cooling					
VTS520				Flore booking					
VTS550				Floor heating					
VTS520	0	0		Dedictor heating					
VTS550	0	0		Radiator heating					

[•] 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:	continuously max. 110°C
	temporarily max. 120°C
Temperature stability:	±4°C*
Connection:	External thread (G), ISO 228/1
	External thread (R), EN 10226-1

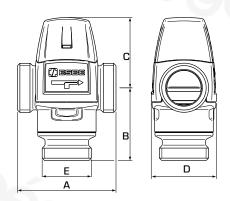
 * Valid at unchanged hot/cold water pressure, minimum flow rate 9 l/min. Minimum temperature difference between hot water inlet and mixed water outlet 10°C.

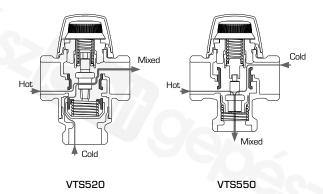
Material

PED 2014/68/EU, article 4.3

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.

PREMIUM SERIES VTS520, VTS550





SERIES VTS522, EXTERNAL THREAD

	Reference	Temp. range	Kvs*	Connection	Dimension			N1 .	Weight	
Art. No.				E	Α	В	С	D	Note	[kg]
31720100	VTS522	45 - 65°C	3,2	G 1"	84	62	60	56		0,86
31720300			3,5	G 11/4"	84					0,95
31720200	VTS522	50 - 75°C	3,2	G 1"	84	62	60	56		0,86
31720400			3,5	G 11/4"						0,95

SERIES VTS552, EXTERNAL THREAD

Art. No.	Reference	Temp. range	Kvs*	Connection E	А	Dime B	nsion C	D	Note	Weight [kg]
31740100	VTS552	45 - 65°C	3,2	G 1"	84	50	60	56		0,78
31740300			3,5	G 11⁄4"						0,87
31740200	VTS552	50 - 75°C	3,2	G 1"	84	50	60	56		0,78
31740400			3,5	G 11⁄4"	84			36		0,87

^{*} Kvs-value in m^3/h at a pressure drop of 1 bar.

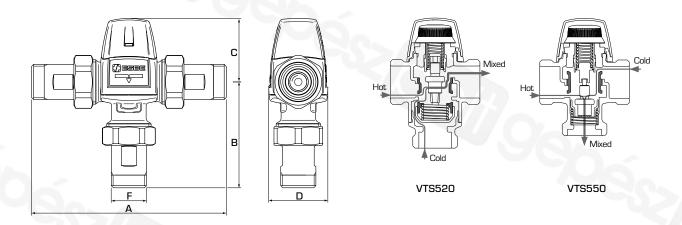
INSTALLATION EXAMPLES

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





PREMIUM SERIES VTS520, VTS550



▼ SERIES VTS522, WITH ADAPTERS

	Art. No.	Reference	Temp. range	Kvs*	Connection	Dimension				N	Weight
					F	Α	В	С	D	Note	[kg]
	31720500	VTS522	45 - 65°C	3,0	R 3/4"	154	97	60	56	1)	1,22

SERIES VTS552,WITH ADAPTERS

0 . 01	Reference	Temp. range	Kvs*	Connection	Dimension				N.	Weight
Art. No.				F	Α	В	С	D	Note	[kg]
31740500	VTS552	45 - 65°C	3,0	R 3/4"	154	85	60	56		1,14
31740700	VTS552		3,4	R 1"	164	90		36		1,51
31740600	VTS552	50 - 75°C	3,0	R 3/4"	154	85	60	56		1,14

 * 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

