THERMOSTATIC MIXING VALVE

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.



VTS520 External thread



With adapters. external thread



External thread



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*.

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.

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	erature nge		
Series	45 - 65°C	50 - 75°C		Application
VTS520	•	•	P	5.44
VTS550	•	•	U'	Potable water, in line
VTS520			T.	Datable water paint of war
VTS550			***	Potable water, point of use
VTS520	•	•	***	Colon booting
VTS550	•	•		Solar heating
VTS520			址	Cooling
VTS550			*	Cooling
VTS520				Floor booting
VTS550				Floor heating
VTS520	0	0		Radiator heating
VTS550	0	0		пашасы пеакну

recommended of 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

Valve housing and other metal parts with fluid contact:

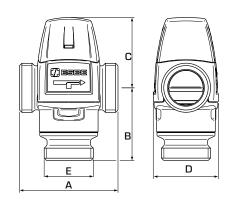
_ Dezincification resistant brass, DZR

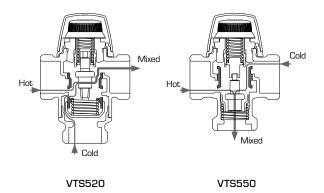
PED 2014/68/EU, article 4.3

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.

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SERIES VTS522, EXTERNAL THREAD

Art. No.	Reference	Temp. range	Kvs*	Connection E	А	Dime B	nsion C	D	Note	Weight [kg]
31720100	VTCEOO	45 - 65°C	3,2	G 1"	84	62	60	56		0,86
31720300	VTS522		3,5	G 11⁄4"						0,95
31720200	VTCEOO	E0 3E00	3,2	G 1"	0.4	62	60	56		0,86
31720400	VTS522	50 - 75°C	3,5	G 11/4"	84					0,95

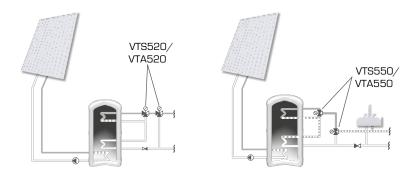
SERIES VTS552, EXTERNAL THREAD

Art. No.	Reference	Temp. range	Kvs*	Connection F	А	Dimension A B C D			Note	Weight [kg]
31740100	VTS552		3,2	G 1"	84	50	60	56		0,78
31740300		45 - 65°C	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"						0,87

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

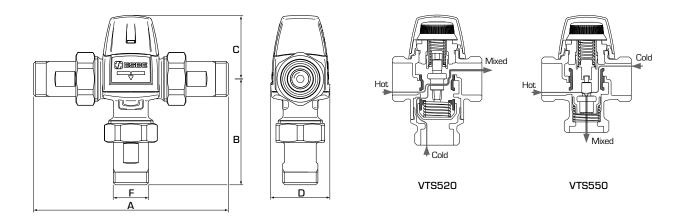
INSTALLATION EXAMPLES

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



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PREMIUM SERIES VTS520, VTS550



▼ SERIES VTS522, WITH ADAPTERS

A NI-	Deferre	T	14*	Connection	Dimension			Niere	Weight	
Art. No.	Reference	Temp. range	Kvs*	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				Weight	
Art. No.				F	Α	В	C	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				1,51
31740600	VTS552	50 - 75°C	3,0	R 3/4"	154	85	60	56		1,14

* Kys-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

