THERMOSTATIC MIXING VALVES

THERMOSTATIC EMERGENCY MIXING VALVE

SERIES VTE300, VTE500

The ESBE thermostatic emergency mixing valves series VTE300/VTE500 are specially designed for eye washers and emergency showers.



VTE312 VTE512

OPERATION

The ESBE series VTE300/VTE500 thermostatic emergency mixing valves are designed for eye washers and emergency showers, where high precision of water temperature regulation, anti-scalding and continuous access to water is required.

FUNCTION

Mixing water control ensures the right temperature at the distribution point as well provides a safety function against undesired temperature settings changes.

Anti-scalding function is a safety function which secures the users against the scalding. The anti- scalding function is released in case of uncontrolled hot water temperature overshooting or in case of cold water failure.

The valve provides a feature of continuously supply of water in case of hot water failure (e.g. hot water is cut off). The function is released if the differential pressure between the cold and hot water exceeded 0,5 bar. In this case cold water will be distributed to the device.

MEDIA

The valve is intended to work with water.

TECHNICAL DATA

Pressure class: PN 10
Working pressure: 1,0 MPa (10 bar)
Differential pressure, mixing: max. 0,3 MPa (3 bar)
Differential pressure, cold/hot supply: max. 0,03 MPa (0,3 bar)
Differential pressure to release the bypass function: min. 0,05 MPa (0,5 bar)
Max. media temperature: continuously 95°C
temporarily 100°C
Min. media temperature: 0°C
Capacity of bypass - VTE300: Kvs 1,2 m^3/h
(31 l/min at 2,4 bar differential pressure)
Capacity of bypass - VTE500: Kvs 2,7 m^3/h
(70 l/min at 2,4 bar differential pressure)
Temperature stability: ±5°C*
Connection: External thread, ISO 228/1

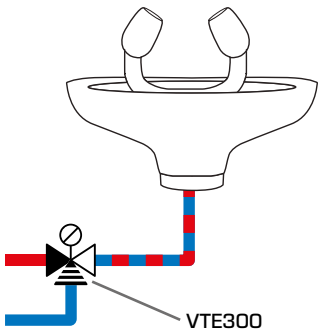
Material
Valve housing and other metal parts with fluid contact:
DZR brass CW625N, resistant to dezincification

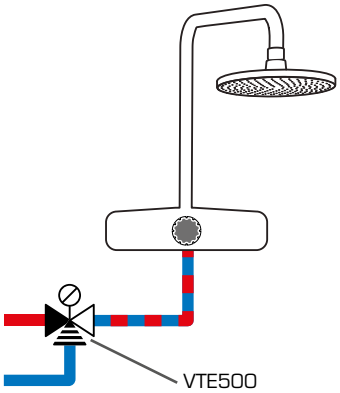
*VTE300: Valid at same pressure in hot and cold water inlet, minimum flow rate 4 l/min. Minimum temperature difference between hot water inlet and mixed water outlet 10°C.
VTE500: Valid at same pressure in hot water inlet and mixed water outlet, minimum flow rate 9 l/min. Minimum temperature difference between hot water inlet and mixed water outlet 10°C.

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.

INSTALLATION EXAMPLES

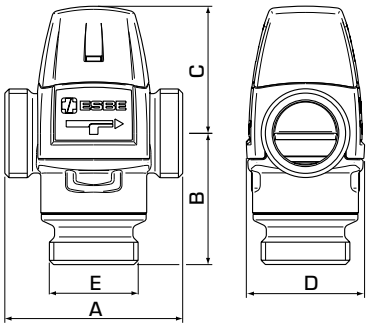


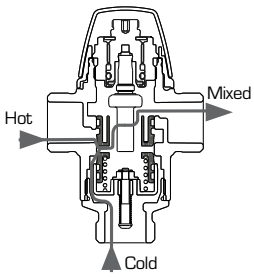


The shown applications are only examples of product use!
Before using the product in any application, the regional and national regulations need to be checked.

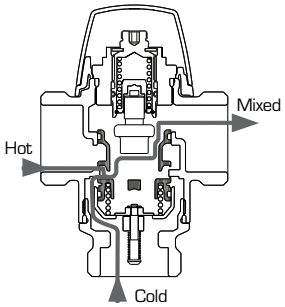
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SERIES VTE300, VTE500





VTE300



VTE500

SERIES VTE312, EXTERNAL THREAD

Art. No.	Reference	Temperature range	Kvs*	Connection	Dimension				Weight [kg]	Note
				E	A	B	C	D		
31260200	VTE312	22 – 28°C	1,2	G ¾"	70	54	52	46	0,52	

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

SERIES VTE512, EXTERNAL THREAD

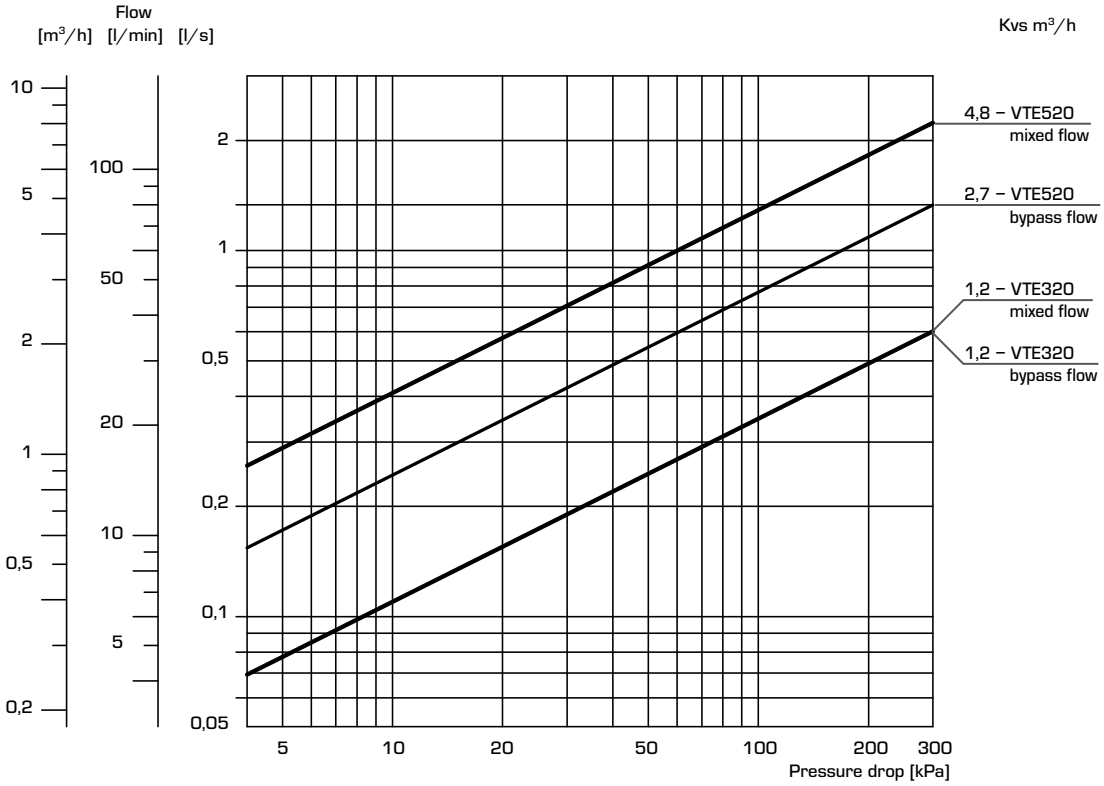
Art. No.	Reference	Temperature range	Kvs*	Connection	Dimension				Weight [kg]	Note
				E	A	B	C	D		
31280200	VTE512	22 – 28°C	4,8	G 1¼"	84	62	60	56	0,95	

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

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CAPACITY DIAGRAM



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