

DIVERTING VALVE SERIES VTD500

The thermic valve series ESBE VTD500 with adjustable temperature is used for diverting applications. The valve diverts the incoming flow to the A or B port depending on fluid temperature.



External thread

With adapters,
External thread

OPERATION

The ESBE series VTD500 is a thermic 3-way valve designed for diverting applications. When the incoming fluid temperature is below the nominal diverting temperature it is diverted to the A port. When the incoming fluid temperature is above the nominal diverting temperature it is diverted to the B port. VTD500 series features an adjustable diverting temperature.

FUNCTION

The valve contains a thermostat with an adjustable diverting temperature from 42 to 52°C, which reacts on the incoming fluid temperature and changes the outgoing flow direction accordingly. The change-over from one port to the other is within a range of $\pm 3^\circ\text{C}$, from the nominal set diverting temperature.

MEDIA

Maximum 50% glycol for freezing protection and oxygen absorbing compounds are allowed as additives. As both the viscosity and the thermal conduction are affected when glycol is added to the system water, this fact has to be considered when dimensioning the valve. When 30 - 50% glycol is added, the maximum output effect of the valve is decreased by 30 - 40%. A lower concentration of glycol may be disregarded.

SERVICE AND MAINTENANCE

We recommend equipping the valve connections with shutdown devices to facilitate future service. The valve does not need any maintenance under normal conditions. However thermostats are available and are easy to replace if necessary.

DIVERTING VALVE VTD500 DESIGNED FOR

- Heating
- Potable water
- Solar heating
- Zone

TECHNICAL DATA

Pressure class: _____ PN 10
 Diverting range shut off: _____ 42–52°C $\pm 3^\circ\text{C}$
 Media temperature: _____ continuously max. 100°C
 _____ temporarily max. 110°C
 _____ min 0°C
 Max. differential pressure: _____ 300 kPa (3 bar)
 Leakage, AB - A: _____ 0.5%
 AB - B: _____ 2%
 Connections: _____ External thread (R), ISO 228/1

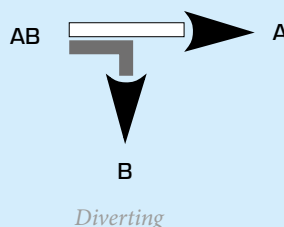
Material

Valve housing and other metal parts with fluid contact:
 _____ Dezincification resistant brass DZR

PED 2014/68/EU, article 4.3

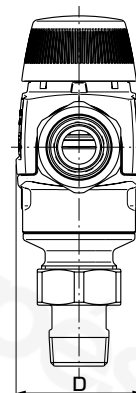
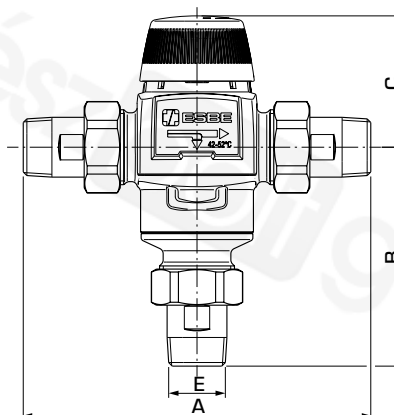
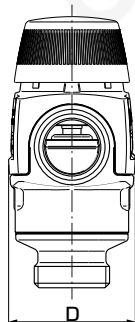
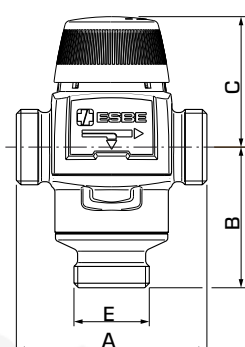
Pressure Equipment in conformity with PED 2014/68/EU, article 4.3 (sound engineering practice). According to the directive the equipment shall not carry any CE-mark.

FLOW PATTERN



DIVERTING VALVE

SERIES VTD500



VTD582

VTD582 with adapters

SERIES VTD582, EXTERNAL THREAD

Art. No.	Reference * *	DN	Kvs *	Adjustable change-over point	Connection E	A	B	C	D	Weight [kg]	Note
31580100	VTD582	20	2.8	42-52°C	G 1"	84	62	60	56	0.86	

SERIES VTD582, WITH ADAPTERS

Art. No.	Reference	DN	Kvs *	Adjustable change-over point	Connection E	A	B	C	D	Weight [kg]	Note
31580200	VTD582	20	2.8	42-52°C	R 3/4"	154	97	60	56	1.26	

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

INSTALLATION EXAMPLES

