**DIVERTING VALVE** 

**SERIES VZA, VZB** 

External thread, IP20

Compression fitting, IP20 without/loose cable



VZB100 Internal thread, IP40 fixed cable



External thread, IP40 fixed cable



Compression fitting, IP40 fixed cable

## **OPERATION**

ESBE series VZA and VZB is a range of compact diverting valves in brass for use in heat pumps, under floor heating or HVAC applications. The main feature is the ability to rapidly change the flow direction between two circuits meaning a energy-efficient operation.

The ESBE VZA and VZB series 3-way diverting valve for heat pumps,

under floor heating or HVAC applications. Three types of connections are available, internal thread, external thread or compression fittings.

ESBE diverting valve series VZA and VZB has a built-in function for automatic valve motion after 7 days and nights of non-operation.

### **FUNCTION**

Change-over from A- to B-circuit is performed by a signal from a control unit. The position indicator shows the flow path.

When the actuator is dismantled the valve will take up a mid position which allows flow in both circuits.

#### **VERSIONS**

ESBE VZA is available without cable or with loose cable and has an enclosure rating of IP20. Series VZA without cable is supplied with a connector type Molex for connection to a cable of own choice, with a maximum length of 100 m. ESBE VZB is delivered with fixed cable and has an enclosure rating of IP40. As an option the ESBE VZA and VZB series is available with auxialiary switch.

### **SERVICE AND MAINTENANCE**

Vital parts like valve inserts and the entire actuator is easily replaceable. The entire actuator can be replaced without dismantling the valve, as long as the system is depressurized first.

#### **INSTALLATION**



## **DIVERTING VALVE VZA, VZB DESIGNED FOR**

•	Heating
Ŏ	Comfort Cooling
Ō	Potable water
•	Floor heating
$\bigcirc$	Solar heating

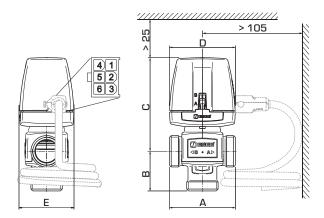
	Ventilation
	Zone
Ó	District Hot Water
Õ	District Heating
$\circ$	District Cooling

OPTION				
Cable ALZ801, fixed version IP40,				
3-wire	Art. No.	4605	01	00
6-wire for use with auxiliary switch	Art. No.	4605	02	00
Cable ALZ801, loose version IP20,				
3-wire	Art. No.	4605	03	00
5-wire for use with auxiliary switch	Art. No.	4605	04	00
Compatible with article numbers 4302 XX XX a	nd 4304 XX	XX		

TECHNICAL DATA	PN 6
	max. (continuosly) +95°C
	max. (temporarily) +110°C
	min. +5°C
Max_differential_nressur	e drop: Diverting, 80 kPa (0.8 bar)
riani airroi oridiai procoai	Mixing, 50 kPa (0.5 bar)
eakrate in % of flow:	0
Connections:	Female thread, EN 10226-1
	Male thread, ISO 228/1
	Compression fitting, EN 1254-2
Ambient temperature:	max. +60°C
·	min. 0°C
Power supply:	230 ± 10% VAC, 50 Hz
Power consumption:	15 VA
Control signal:	2-point SPST (Single Pole Single Throw)
	series VZA, IP20
	series VZB, IP40
	II
	3 s
· , —	2(1)A 250 VAC
Cable length:	1.6 m
Material	
	Brass DZR, CW 602N
	Brass bzn, cvv odziv
	F73 Stainless steel, SS 2346
	EPDM
J-i iiigə	LFDIVI

## **DIVERTING VALVE**

## **SERIES VZA**

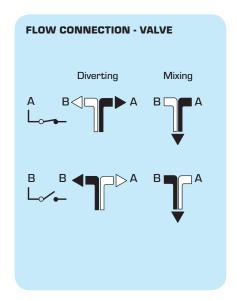


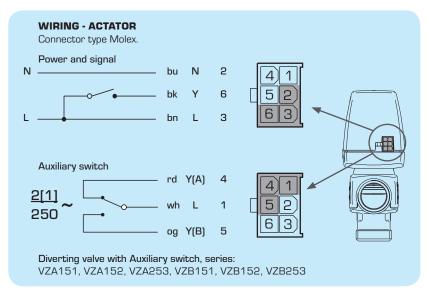
VZA151, VZA161

## **SERIES VZA151/VZA161, INTERNAL THREAD**

Art. No.	Reference	DN	Kvs*	Connection	А	В	С	D	Е	Cable version	Note	Weight [kg]							
4302 01 00	VZA161	20															Without cable		0.5
4302 03 00	VZA151		0.5	D- 2/"	70	40	00	70	E0	vvitilout cable	1)	0.5							
4302 02 00	VZA161		20	20	20	20	20	20	20	6.5	Rp 3/4"	70	42	99	70	58			0.5
4302 04 00	VZA151									Loose cable	1)	0.5							

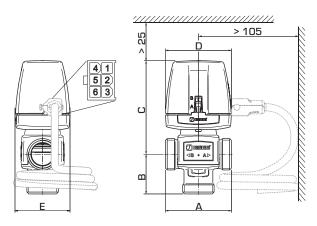
<sup>\*</sup> Kvs-value in diverting mode measured as m³/h at a pressure drop of 1 bar. Kvs-value in mixing mode 10% lower. CPF = compression fitting Note 1) With auxiliary switch

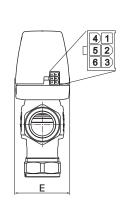


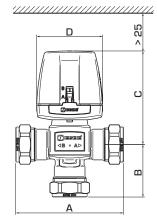


# **DIVERTING VALVE**

## **SERIES VZA**







VZA152, VZA162

VZA253, VZA263

## **SERIES VZA152/VZA162, EXTERNAL THREAD**

Art. No.	Reference	DN	Kvs*	Connection	Α	В	С	D	Е	Cable version	Note	Weight [kg]								
4302 05 00	VZA162	15	15								\A/ithaut aabla		0.5							
4302 09 00	VZA152			15	15	45	45	3.5	G 3/4"	70	42	99	70	58	Without cable	1)	0.5			
4302 06 00	VZA162					3.5	9/4	70	42	33	70	30	Loose cable		0.5					
4302 10 00	VZA152													1)						
4302 07 00	VZA162	20	00	20	200	00	00	00	00									Without cable		0.5
4302 11 00	VZA152									6.5	G 1"	70	42	99	70	58	vvitriout cable	1)	0.0	
4302 08 00	VZA162		6.5	١٥١	/0	42	55	/0	36	Loose cable		0.5								
4302 12 00	VZA152									Loose cable	1)	0.5								

## **SERIES VZA253/VZA263, COMPRESSION FITTING**

Art. No.	Reference	DN	Kvs*	Connection	Α	В	С	D	Е	Cable version	Note	Weight [kg]											
4302 13 00	VZA263	20	20	20								Without cable		0.0									
4302 17 00	VZA253				00	00	00	4.5	CPF 22 mm	111	49	99	70	58	vvitriout cable	1)	0.6						
4302 14 00	VZA263				4.5	CPF 22 MM	111	49	33	/0	50	Loose cable		0.6									
4302 18 00	VZA253										Loose cable	1)	0.0										
4302 15 00	VZA263	25	25	0.5	0.5		05	05	0.5												\\(\lambda\)		0.7
4302 19 00	VZA253									0.5	005.00	444		99	70		Without cable	1)	0.7				
4302 16 00	VZA263			6.5	CPF 28 mm	114	56	99	70	58	l acco coble		0.7										
4302 20 00	VZA253										Loose cable	1)	0.7										

<sup>\*</sup> Kvs-value in diverting mode measured as m³/h at a pressure drop of 1 bar. Kvs-value in mixing mode 10% lower. CPF = compression fitting Note 1) With auxiliary switch

