DIVERTING VALVES

DIVERTING VALVE SERIES VZC, VZD

The ESBE VZC and VZD 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.

OPERATION

ESBE series VZC and VZD 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.

ESBE diverting valve series VZC and VZD 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.

VERSIONS

ESBE VZC is available without cable or with detachable cable and has an enclosure rating of IP20. Series VZC without cable is supplied with a socket type Molex for connection to a cable of own choice, with a maximum length of 100 m. ESBE VZD is delivered with fixed cable and has an enclosure rating of IP40. As an option the ESBE VZC and VZD 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. When changing the valve insert the system must be depressurized.

INSTALLATION





VZC100 Internal thread, IP20 without/detachable



VZD100 Internal thread, IP40 fixed cable



External thread, IP20 without/detachable



External thread, IP40 fixed cable



Compression fitting, IP20 without/detachable



Compression fitting, IP40 fixed cable

DIVERTING VALVE VZC, VZD DESIGNED FOR

Heating	Ventilation
Comfort Cooling	Zone
Potable water	O District Hot Wat
Floor heating	O District Heating
Solar heating	O District Cooling

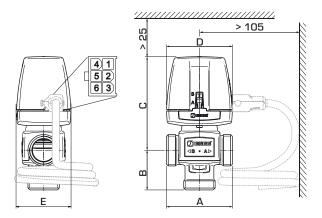
OPTION					
Cable ALZ801, fixed version IP40,					
3-wire	Art.	No.	4605	01	00*
6-wire for use with auxiliary switch	Art.	No.	4605	02	00*
Cable ALZ801, detachable version IP20),				
3-wire	Art.	No.	4605	03	00*
6-wire for use with auxiliary switch	Art.	No.	4605	04	00*
* Compatible with article numbers 4306 XX XX a (not 4300 XX XX)	nd 430	8 XX	XX		

Pressure class:	
	max. (continuosly) +95°C max. (temporarily) +110°C
	min. +5°C
Max differential pressure dro	p: Diverting, 80 kPa (0.8 bar
•	Mixing, 50 kPa (0.5 bar
	Female thread (Rp), EN 10226-1
	Male thread (G), ISO 228/1
	npression fitting (CPF), EN 1254-2
	max. +60°0
	min. 0°0
Power supply:	230 ± 10% V AC, 50 H;
Max. Power consumption	15 VA
Power consumption idle:	
Control signal: 2-po	oint SPST (Single Pole Single Throw
Enclosure rating:	series VZC, IP20
	series VZD, IP40
	3 :
	2(1)A 250 V AC
Cable length:	1.6 m
Material	Danie (18 anie a danie a danie a DZE
	Dezincification resistant brass DZF
Plug and cover plate:	PPS Stainless steel, SS 2346
	Stairliess steel, 33 2340 EPDM
U-1111ys	EPDIV
(C LVD 2006/95/EC	
C € LVD 2006/95/EC EMC 2004/108/EC	
RoHS 2011/65/EC	
PED 97/23/EC, article	9.3



DIVERTING VALVE

SERIES VZC, VZD

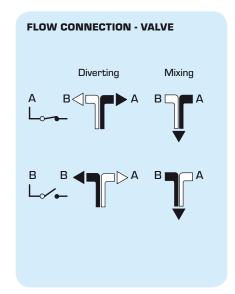


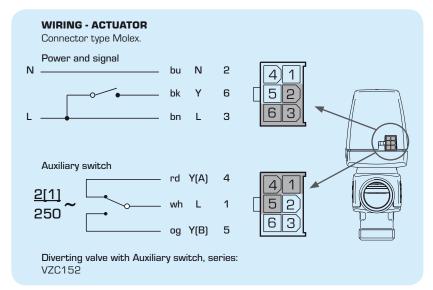
VZC161

SERIES VZC161, INTERNAL THREAD

Art. No	. Referenc	e DN	Kvs*	Connection	А	В	С	D	Е	Cable version	Note	Weight [kg]
4306 02	00 VZC161	20	6.0	Rp 3/4"	70	42	99	70	58	Detachable cable		0.5

^{*} Kvs-value in diverting mode measured as m³/h at a pressure drop of 1 bar. Kvs-value in mixing mode 10% lower.

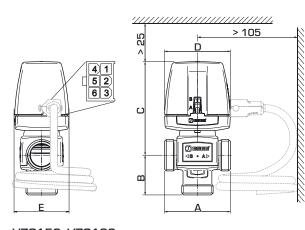


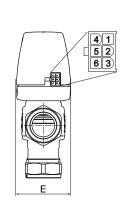


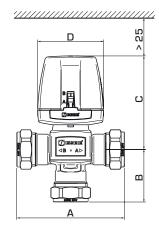


DIVERTING VALVE

SERIES VZC, VZD







VZC152, VZC162

VZC263

SERIES VZC152/VZC162, EXTERNAL THREAD

Art. No.	Reference	DN	Kvs*	Connection	А	В	С	D	Е	Cable version	Note	Weight [kg]				
4306 06 00	VZC162	15	3.5	G 3/4"	70	42	99	70	58	Detachable cable		0.5				
4306 07 00	VZC162	20	6.0	G 1"	70	42	99	70	58	Without cable		0.5				
4306 08 00	VZC162	20	-00	00	00	00	6.0	0.4"	70	40	00	70	EO	Detachable		0.5
4306 12 00	VZC152		6.0	G 1"	70	42	99	70	58	cable	1)	0.5				

SERIES VZC263, COMPRESSION FITTING

Art. No.	Reference	DN	Kvs*	Connection	А	В	С	D	Е	Cable version	Note	Weight [kg]
4306 14 00	VZC263	20	4.5	CPF 22 mm	111	49	99	70	58	Detachable cable		0.6
4306 16 00	VZC263	25	6.0	CPF 28 mm	114	56	99	70	58	Detachable cable		0.7

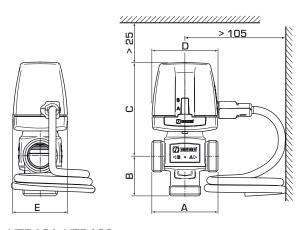
^{*} Kvs-value in diverting mode measured as m³/h at a pressure drop of 1 bar. Kvs-value in mixing mode 10% lower. CPF = compression fitting Note 1) With auxiliary switch

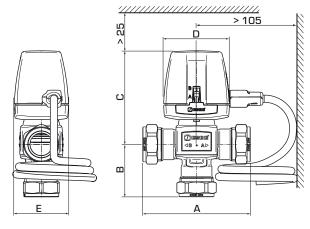




DIVERTING VALVE

SERIES VZC, VZD





VZD161, VZD162

VZD263

SERIES VZD161, INTERNAL THREAD

Art. No.	Reference	DN	Kvs*	Connection	А	В	С	D	E	Cable version	Note	Weight [kg]
4308 01 00	VZD161	20	6.0	Rp 3/4"	70	42	99	70	58	Fixed cable		0.5

SERIES VZD162, EXTERNAL THREAD

Art. No.	Reference	DN	Kvs*	Connection	А	В	С	D	Е	Cable version	Note	Weight [kg]
4308 03 00	VZD162	15	3.5	G 3/4"	70	42	99	70	58	Fixed cable		0.5
4308 04 00	VZD162	20	6.0	G 1"	70	42	99	70	58	Fixed cable		0.5

SERIES VZD263, COMPRESSION FITTING

Art. No.	Reference	DN	Kvs*	Connection	А	В	С	D	Е	Cable version	Note	Weight [kg]
4308 07 00	VZD263	20	4.5	CPF 22 mm	111	49	99	70	58	Fixed cable		0.6
4308 08 00	VZD263	25	6.0	CPF 28 mm	114	56	99	70	58	Fixed cable		0.7

^{*} 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

