

Codice Dianflex: 411-354

DIVERTING VALVES

DIVERTING VALVE SERIES VZC, VZD



VZCx00
External thread, IP20
without/detachable
cable

The ESBE VZC 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 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 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.

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.

DIVERTING VALVE VZC, DESIGNED FOR

- Heating
- Comfort Cooling
- Floor heating
- Ventilation
- Zone

OPTION

Cable ALZ801, detachable version IP20,

3-wire _____ Art. No. 46050300*

6-wire for use with auxiliary switch _____ Art. No. 46050400*

* Compatible with article numbers 4306XXXX and 4308XXXX (not 4300XXXX)

TECHNICAL DATA

Pressure class: _____ PN 6

Media temperature: _____ max. (continuously) +95°C

_____ max. (temporarily) +110°C

_____ min. +5°C

Max. differential pressure drop: ___ Diverting, 80 kPa (0,8 bar)

_____ Mixing, 50 kPa (0,5 bar)

Leakrate in % of flow: _____ 0

Connections: _____ Female thread (Rp), EN 10226-1

_____ Male thread (G), ISO 228/1

_____ Compression fitting (CPF), EN 1254-2

Media: _____ Heating water (in accordance with VDI2035)

_____ Water / Glycol mixtures, max. 50%

_____ Water / Ethanol mixtures, max. 28%

Ambient temperature: _____ max. +60°C

_____ min. 0°C

Power supply: _____ 230 ± 10% V AC, 50 Hz

Max. Power consumption _____ 15 VA

Power consumption idle: _____ 0,9 VA

Control signal: _____ 2-point SPST (Single Pole Single Throw)

Enclosure rating: _____ series VZC, IP20

_____ series VZD, IP40

Protection class: _____ II

Running time: _____ 3 s

Cable length: _____ 1,6 m

Material

Valve body: _____ Dezincification resistant brass DZR

Plug and cover plate: _____ PPS

Spindle: _____ Stainless steel, SS 2346

O-rings: _____ EPDM



LVD 2014/35/EU
EMC 2014/30/EU
RoHS3 2015/863/EU

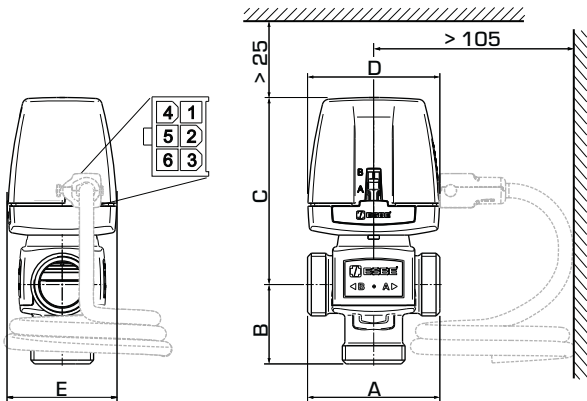


SI 2016 No. 1101
SI 2016 No. 1091
SI 2012 No. 3032

PED 2014/68/EU, article 4.3 / SI 2016 No. 1105 (UK)

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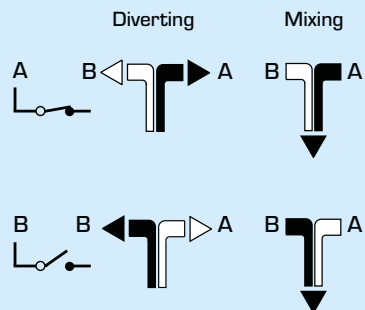


VZC162

SERIES VZC162, EXTERNAL THREAD

Art. No.	Reference	DN	Kvs*	Connection	A	B	C	D	E	Cable version	Note	Weight [kg]
43060800	VZC162	20	6,0	G 1"	70	42	99	70	58	Detachable cable		0,5

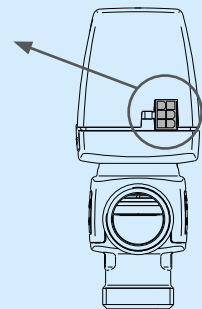
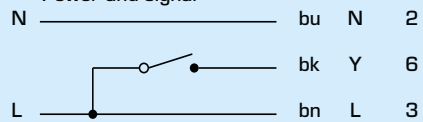
FLOW CONNECTION - VALVE



WIRING - ACTUATOR

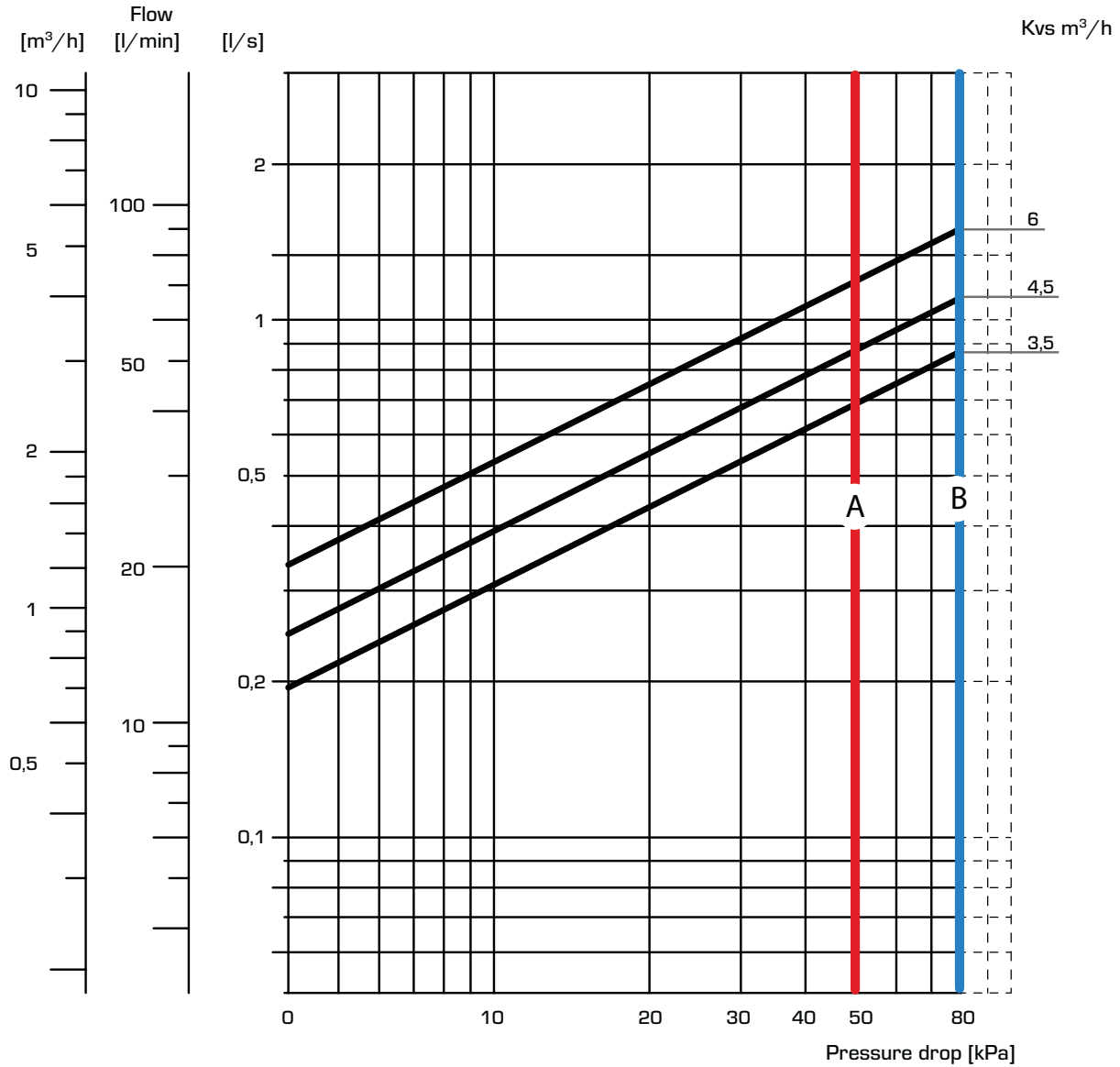
Connector type Molex.

Power and signal



DIVERTING VALVE SERIES VZC

CAPACITY DIAGRAM



- A - max ΔP Mixing
 - B - max ΔP Diverting
 100 kPa = 1 bar ≈ 10 mWC