


**3-way Zone Ball Valves with Actuator, VZK-S model**

	Main Features	
	Application	It serves as a diverter valve for installation in heating and solar thermal systems. The valve does not interrupt the flow of fluid through the common port during switching. It can be used together with any controller that has a 230 V switch-over contact to switch the actuator to the left and to the right. In the event of a controller failure, the actuator can be operated manually.
	Working fluid	water; water/glycol (max. 1:1) or water-glycerine (max. 2:1)
	Installation	any position, except for the actuator facing downwards

**Table of Codes – L-bore Valves**

Marking	Code	Connecting thread	Open/close time [s]	Kvs [m <sup>3</sup> /h]	Weight [kg]
VZK S 325-230-2P-60 L 3/4F	<b>11286</b>	3 x G 3/4" F	60	13,1	1,6
VZK S 325-230-2P-60 L 1F	<b>11287</b>	3 x G 1" F	60	14,3	1,7

**Table of Codes – T-bore Valves**

Marking	Code	Connecting thread	Open/close time [s]	K <sub>vs</sub> straight	K <sub>vs</sub> angled [m <sup>3</sup> /h]	Weight [kg]
VZK S 325-230-2P-60 T 3/4F	<b>18674</b>	3 x G 3/4" F	60	20,0	13,1	1,6
VZK S 325-230-2P-60 T 1F	<b>18675</b>	3 x G 1" F	60	28,3	14,3	1,7

**Technical Data**

Max. working pressure	10 bar
Max. fluid working temperatur.	110 °C
Angle of rotation	90°
Ambient working temperature	5-40°C
Max. pressure difference	10 bar

**Electric Data**

Power supply	230 V 50 Hz
Max. power consumption	2,5 VA
Torque	5 Nm
IP rating	IP42
Protection class	II
Power cable cross section	3 x 0,5 mm <sup>2</sup>
Power cable length	2 m

**Materials**

Valve housing	CW617N
Valve spindle	nickel-plated brass
Valve ball	chrome-plated brass
O-rings	FPM
Seal	PTFE
Power cable	PVC

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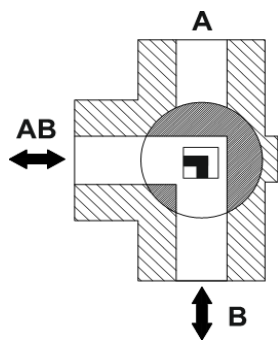
Dimensions	Electrical Wiring
<p><b>Code</b></p> <p>11286, 18674 11287, 18675</p>	<p><b>A</b></p> <p>G 3/4" F G 1" F</p>

The actuator is controlled by the switch-over contact of a controller (three-point wiring), 230 V, 50 Hz. When one controller output closes, the valve rotates clockwise, when the other output closes, it rotates anti-clockwise. The actuator is equipped with end stops so the controller can be permanently switched through one of the outputs into the actuator. However, the controller must never close both the outputs for valve control simultaneously, otherwise the actuator will get damaged.

### Installation and Operation

- Fluid can flow in both directions through the valve (common port can be used either as inlet or outlet)
- Direction of fluid flow through the valve is indicated by the actuator control knob or by the groove on the valve spindle (after removing the actuator)
- Label is affixed to the actuator showing the direction of fluid flow in colour according to the rotation direction of the control knob
- Factory setting of the default position and direction of rotation can be changed, see instructions

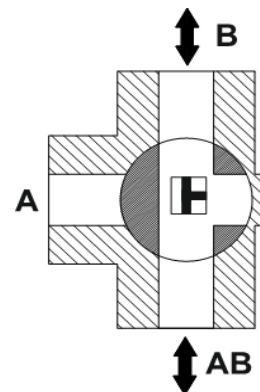
#### Factory settings



L-bore valve



T-bore valve



#### Actuator with label

