

DATA SHEET

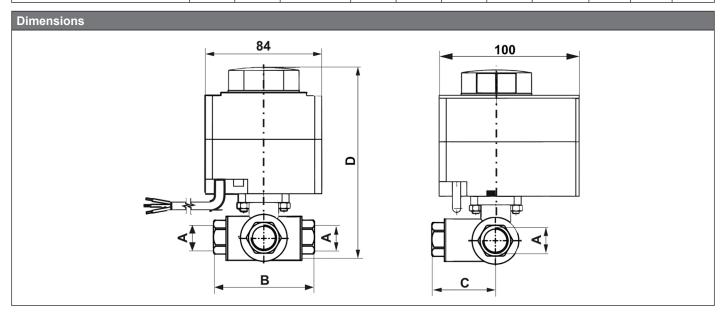
3-way Zone Ball Valves with Actuator, VZK S model



Main Features	
Application	It serves as a diverter valve that does not interrupt the flow of fluid through the common port during switching. It can be used in connection with any controller or thermostat that has a 230 V switching contact for switching the switched phase of the actuator. In the event of a controller or thermostat failure, the actuator can be operated manually.
Working fluid	Drinking water, 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	Nominal clearance DN	Connecting thread	Open time [s]	K _{vs} directly [m³/h]	K _{vs} perpendi- cular [m³/h]	Weight [kg]	∢	B [mm]	C [mm]	D [mm]
VZK S 320-230-1P-60 L 3/4F	19838	20	3x G 3/4" F	60	_	10.5	1.3	G 3/4" F	96	50	160
VZK S 320-230-1P-60 L 1F	19835	20	3x G 1" F	60	_	10.6	1.3	G 1" F	96	50	160
VZK S 325-230-1P-60 L 1F	11287	25	3x G 1" F	60	_	14.3	1.7	G 1" F	104	52	168

Table of Codes – T-bore Valves											
Marking	Code	Nominal clearance DN	Connecting thread	Open time [s]	K _{vs} directly [m³/h]	K _{vs} perpendi- cular [m³/h]	Weight [kg]	4	B [mm]	C [mm]	D [mm]
VZK S 320-230-1P-60 T 3/4F	19840	20	3x G 3/4" F	60	17.8	10.5	1.3	G 3/4" F	96	50	160
VZK S 320-230-1P-60 T 1F	19833	20	3x G 1" F	60	19.5	10.6	1.3	G 1" F	96	50	160
VZK S 325-230-1P-60 T 1F	18675	25	3x G 1" F	60	28.3	14.3	1.7	G 1" F	104	52	168



Tel.: +420 241 765 191

Fax: +420 241 763 976

E-mail: sales@regulus.eu

Web: www.regulus.eu



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Technical Data		
Max. working pressure	10 bar	
Max. fluid working temperature	110 °C	
Angle of rotation	90°	
Ambient working temperature	5–40 °C	
Max. pressure difference	10 bar	

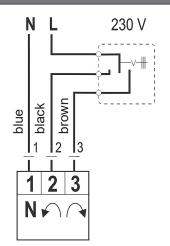
Electric Data		
Power supply	230 V 50 Hz	
Max. power consumption	2.5 VA	
Torque	5 Nm	
IP rating	IP42	
Protection class	II	
Power cable cross section	3 x 0.5 mm²	
Power cable length		

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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Electrical Wiring



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.



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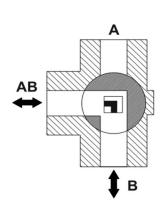
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Installation and Operation

- 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.

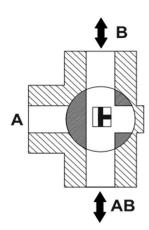
Factory settings

■ Factory setting of the default position and direction of rotation can be changed, see instructions.









L-bore valve

T-bore valve

Actuator with label



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