DATA SHEET

3-way Zone Ball Valves with Actuator, VZU R 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/glycol (max. 1:1) or water/glycerine (max. 2:1).
Installation	Any position, except for the actuator facing downwards.

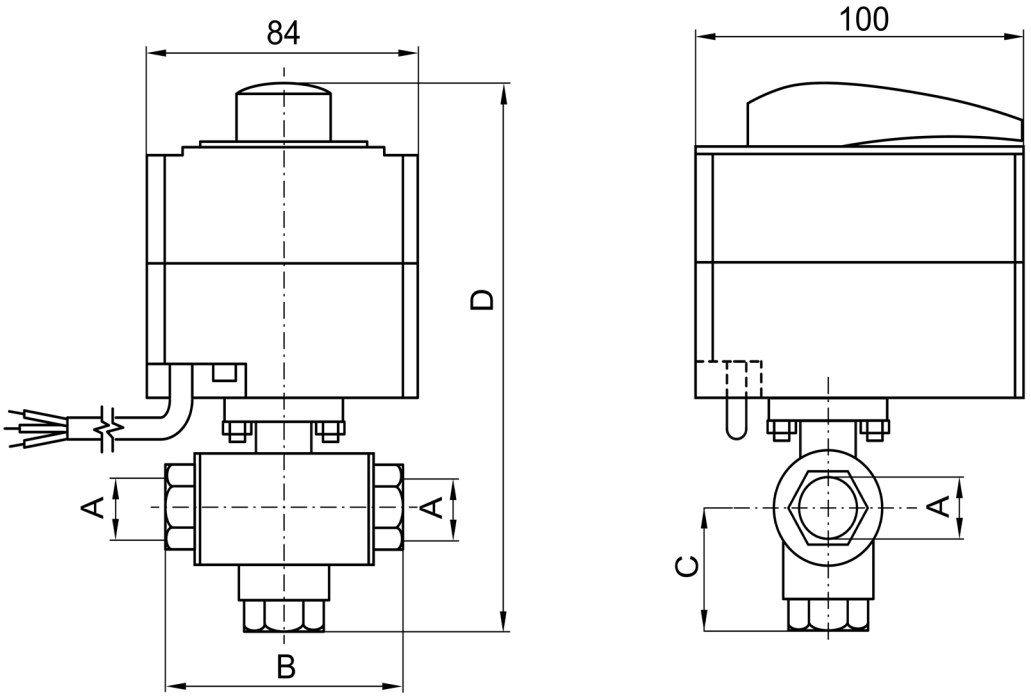
Table of Codes – drive opening/closing time 15 s

Marking	Code	Nominal clearance DN	Connecting thread A	B	C	D	K_{vs} [m³/h]	Weight [kg]
VZU R 320-230-1P-15 3/4F	20461	20	3 x G 3/4" F	96	50	186	10.5	1.3
VZU R 320-230-1P-15 1F	20017	20	3 x G 1" F	96	50	186	10.6	1.3
VZU R 320-230-1P-15 5/4M	20462	20	3 x G 5/4" M	116	60	196	10.6	1.3

Table of Codes – drive opening/closing time 60 s

Marking	Code	Nominal clearance DN	Connecting thread A	B	C	D	K_{vs} [m³/h]	Weight [kg]
VZU R 320-230-1P-60 3/4F	19986	20	3 x G 3/4" F	96	50	186	10.5	1.3
VZU R 320-230-1P-60 1F	19982	20	3 x G 1" F	96	50	186	10.6	1.3
VZU R 320-230-1P-60 5/4M	19989	20	3 x G 5/4" M	116	60	196	10.6	1.3

Dimensions



R E G U L U S spol. s r. o. Czech Republic
Do Koutů 1897/3, 143 00 Praha 4
Tel.: +420 241 765 191
Fax: +420 241 763 976
E-mail: sales@regulus.eu
Web: www.regulus.eu

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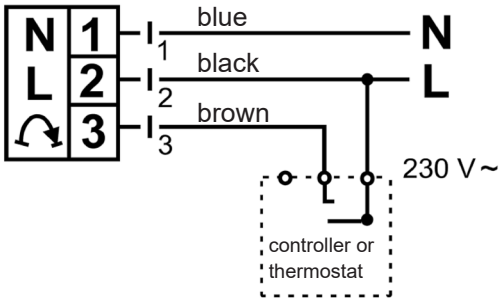
Technical Data	
Max. working pressure	10 bar
Max. fluid working temperature	110 °C
Angle of rotation	90°
Ambient working temperature	5 °C to 40 °C
Max. pressure difference	10 bar

Electric Data	
Power supply	230 V 50 Hz
Max. power consumption	4 VA
Max. current	17 mA
Torque	5 Nm
IP rating	IP42
Protection class	II
Power cable cross section	3 x 0.5 mm²
Power cable length	2 m

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

Electrical Wiring



The actuator is controlled by the switching contact of the controller or thermostat 230 V, 50 Hz. Permanent power supply is applied to terminals 1 and 2. The switched live is connected to terminal 3.

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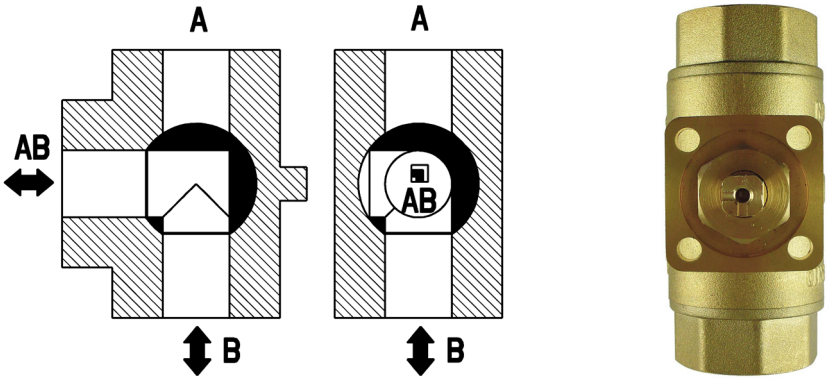
Installation and Operation

- Fluid can flow in either direction through the valve (the common port can be used as an inlet or outlet).
- The direction of fluid flow is indicated on the actuator or by a groove on the valve spindle (after removing the actuator).
- A label showing the fluid flow direction in colour corresponding to the lever position is placed on the actuator.
- The default position as well as the sense of rotation can be changed, see the Instruction Manual.

Factory setting



Actuator with label