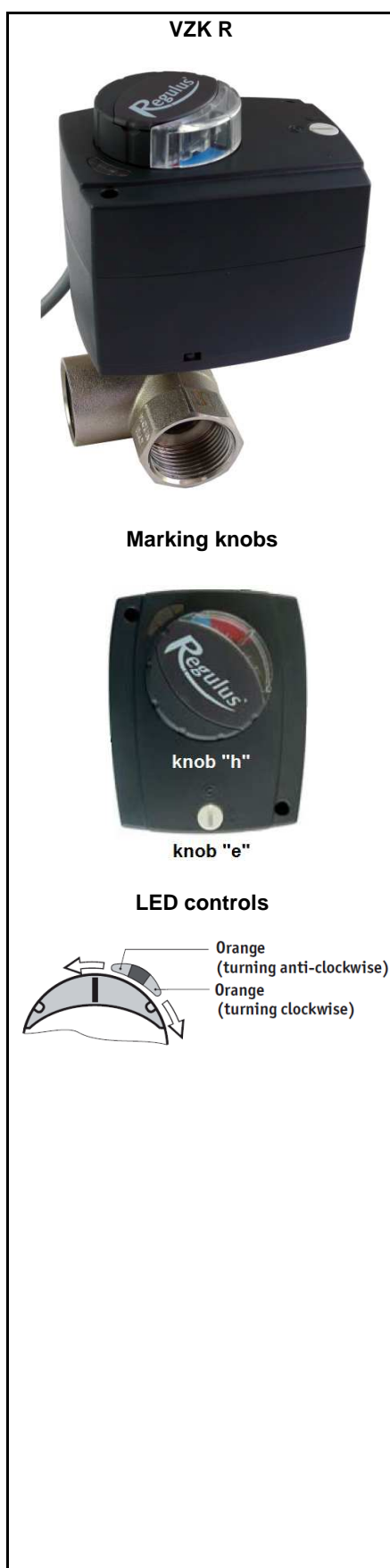


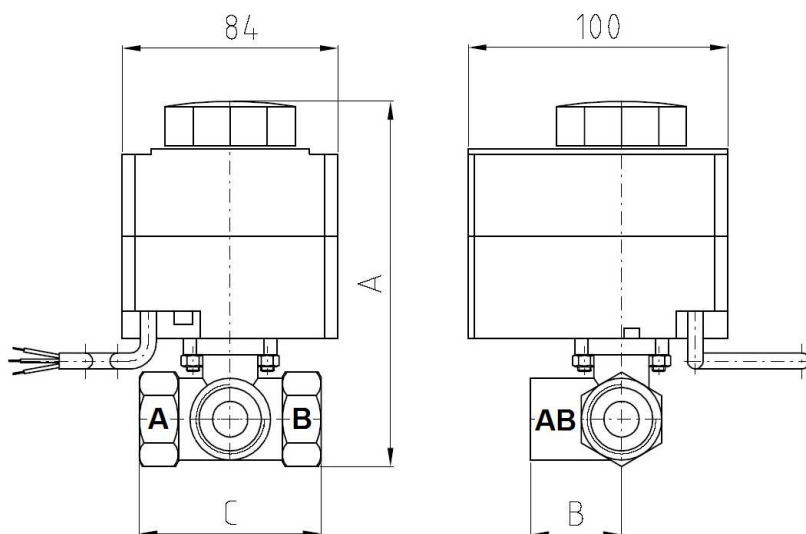
VZK R 3-Way Zone Ball Valves with Actuator



Main features	
Application	heating or solar thermal systems, except for systems with gravity circulation
Working fluid	water, water/glycol mixture (max. 1:1), water/glycerine mixture (max 2:1)
Installation position	any, except for the position with the actuator downwards
Codes	
13 602	for connections G 1/2" F and K_{vs} 10,5 m ³ /h
13 603	for connections G 3/4" F and K_{vs} 10,5 m ³ /h
13 604	for connections G 1" F and K_{vs} 14,0 m ³ /h
Control	
Control type	single-pole control
Description of electrical control	when the brown wire is energized, the actuator will shift; when the conductor is voltage-free, the actuator is returned to its default position by el. motor – for this reason a permanent live (black wire) shall be wired to the actuator
De-energized	port B open
Energized	port A open
Description of manual control	turning the white "e" knob to "h" position will turn off the motorized actuator; by turning the "h" knob the desired valve position will be set
Technical data	
Max. working pressure	16 bar
Max. fluid working temperature	110 °C
Ambient working temperature	0° to 40°C
Shift time	60 s
Opening angle	90°
Electric data	
Power supply	230 V 50 Hz
Max. power consumption	4 VA
Max. current	17 mA
Torque	5 Nm
IP rating	IP42 by EN 60 529
Protection class	II by EN 61 140 ed.2
Electromagnetic compatibility	by EN 50130-4
Power cable cross section area	3 x 0,5 mm ²
Power cable length	2 m
Materials	
Valve housing	forged brass, nickel plated
Valve spindle	nickel-plated brass
Valve ball	chrome-plated brass
Two o-rings	FPM
Power cable	PVC

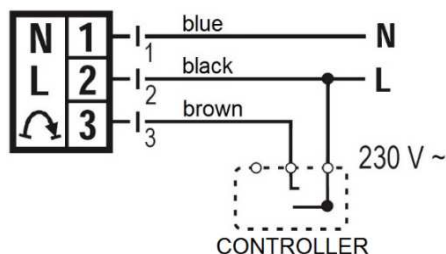
VZK R 3-Way Zone Ball Valves with Actuator

Dimensions



Designation	Code	Dimensions [mm]			Weight	K _{vs}	Connection	Max. pressure difference
		A	B	C				
VZK R 315-230-1P	13 602	145	48,5	67,0	1,03 kg	10,5 m ³ /h	G 1/2" F	10 bar
VZK R 320-230-1P	13 603	145	50,5	69,5	0,94 kg	10,5 m ³ /h	G 3/4" F	
VZK R 325-230-1P	13 604	156	60,0	82,0	1,17 kg	14,0 m ³ /h	G 1" F	

Electric wiring



Pressure drop graph

