

VZK Zone Ball Valve with Actuator

Two-way valves



Three-way valves

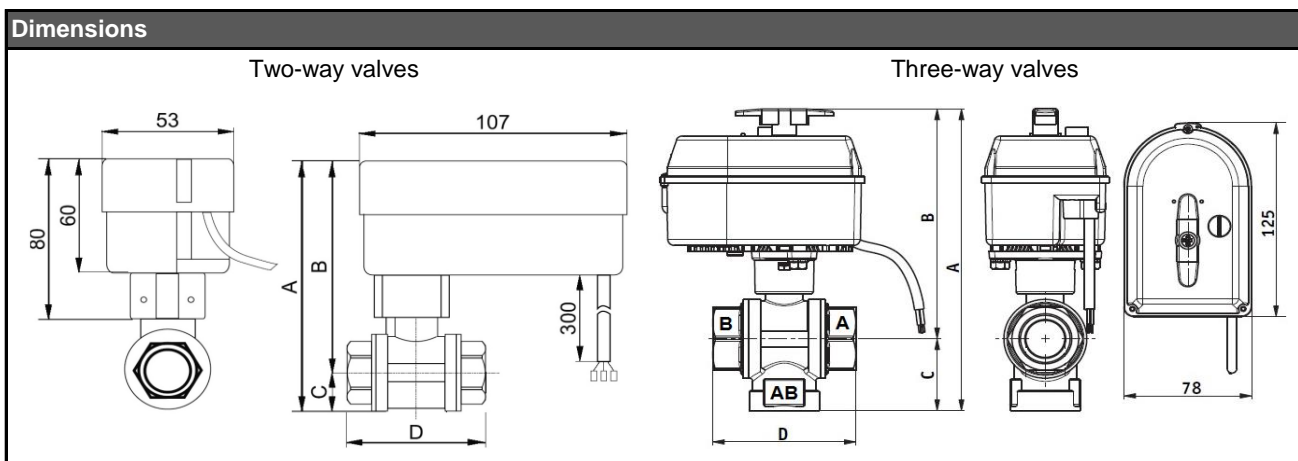
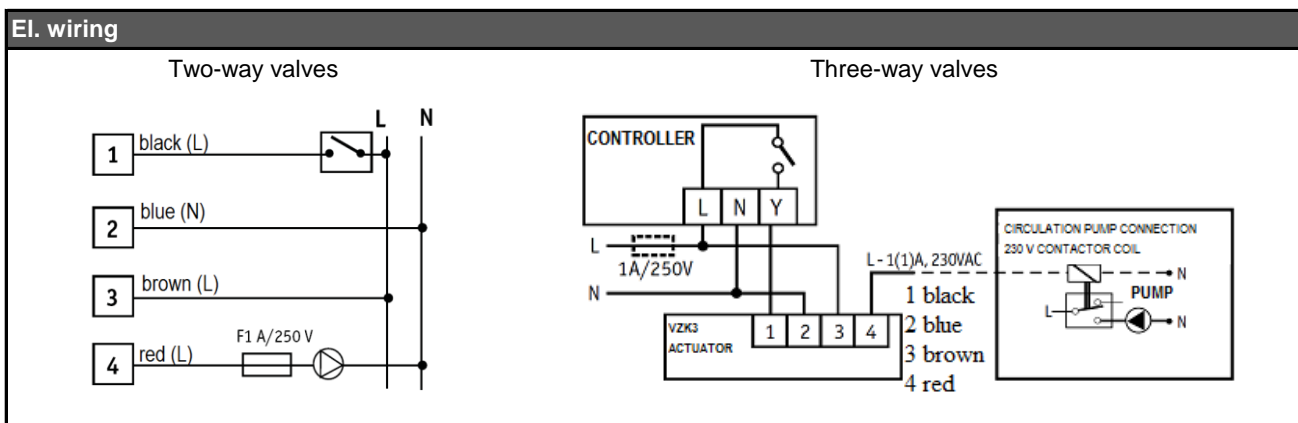


Main features						
Application	sanitary and drinking water piping, heating and solar thermal systems, not for gravity circulation systems	sanitary and drinking water piping, heating and solar thermal systems, not for gravity circulation systems				
Working fluid	water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), water, drinking water	water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1), water, drinking water				
Installation position	any, except for the position with the actuator downwards	any, except for the position with the actuator downwards				
Type	VZK 215	VK 220	VZK 225	VZK 315	VZK 320	VZK 325
Code	11 288	10 344	11 289	11 292	11 293	11 294
Control	single-pole	single-pole				
Electric control	the valve requires Neutral, Switched Live (black) and Permanent Live (brown); the valve is closed without Switched Live, as soon as Switched Live is present, the valve opens	the valve requires Neutral, Switched Live (black) and Permanent Live (brown); the port B is open without Switched Live, as soon as Switched Live is present, the port A opens				
Antiblock function	if valve shift is blocked by an obstacle, the actuator will stop and turn in the other direction by 270°	-				
End switch	at the end position, 230 V is present on the red wire that can be used to control a circulation pump	at the end position, 230 V is present on the red wire that can be used to control a circulation pump				
Manual control	after removing the retaining spring, the actuator can be shifted upwards; the valve will shift by rotating the actuator	by pressing and turning the push button with a screwdriver, the actuator motor drive will be disengaged; by turning the handle the desired valve position can be adjusted				
Shift time	30 s	64 s				
Opening angle	90°	180°				
Technical data						
Max. working pressure	16 bar	16 bar				
Fluid working temperature	up to 110 °C	up to 110 °C				
Max. pressure difference	10 bar	10 bar				

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Actuator data		
Power supply	230 V 50 Hz	230 V 50 Hz
Power consumption	7 W	9 W
Current	30 mA	40 mA
Idle power	3 W	5 W
Torque	8 Nm	15 Nm
IP rating	IP44 by EN 60529	IP44 by EN 60529
Protection class	II by EN 61140 ed.2	II by EN 61140 ed.2
Electromagnetic compatibility	by EN 50130-4	by EN 50130-4
Ambient working temperature	0 to 55 °C	0 to 55 °C
Power cable cross section	4 x 0.50 mm ²	4 x 0.50 mm ²
Power cable length	0.3 m	2 m

Materials		
Valve housing	forged brass, nickel plated	forged brass, nickel plated
Valve spindle	nickel-plated brass	nickel-plated brass
Valve ball	chrome-plated brass	chrome-plated brass
O-ring	FPM	FPM
Power cable	PVC	PVC

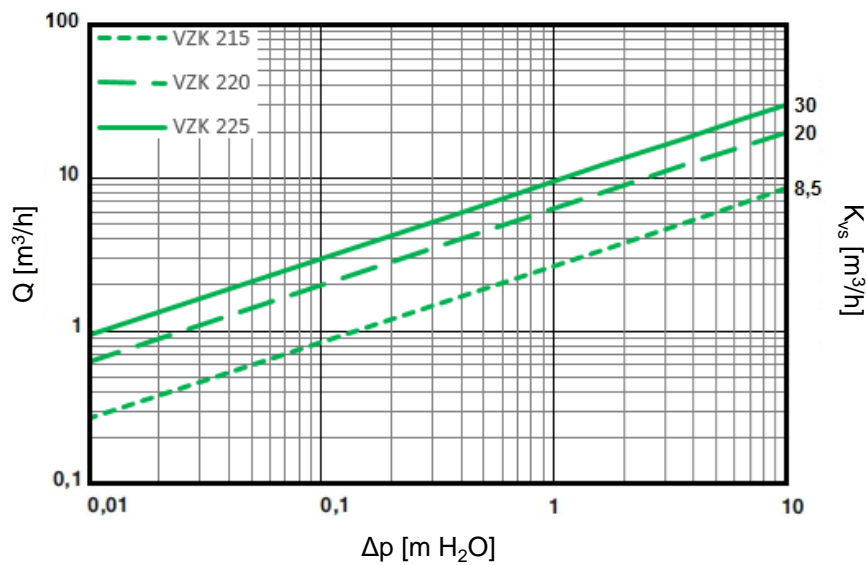


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Parameters		Type	Two-way valves			Three-way valves		
			VZK 215	VZK 220	VZK 225	VZK 315	VZK 320	VZK 325
Connection			G 1/2" F	G 3/4" F	G 1" F	G 1/2" F	G 3/4" F	G 1" F
Dimensions	A [mm]		126	129	137	183	183	194
	B [mm]		108,5	109,5	113,5	144	144	148
	C [mm]		17,5	19,5	23,5	39	39	46
	D [mm]		63	57	68	74	74	88
K_{vs}	[m ³ /h]		8,5	20	30	5	7	11
Weight	[kg]		0,68	0,65	0,81	1,02	1,25	1,53

Pressure drop graph

Two-way valves



Three-way valves

