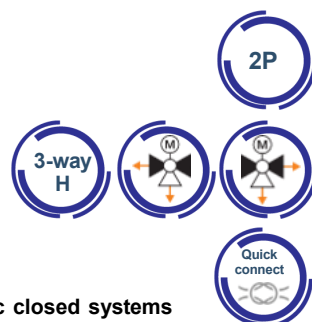


## ZVQ 3000HL-2P

3-way zone unit, valve with actuator



- Internal or external thread
- DN20 ÷ DN25
- 2-point control
- For diverting/changeover applications
- Quick and mistake-proofing assembly of the actuator
- Compact and robust structure
- Available with cable or Molex connector
- Available with or without manual control
- For domestic and commercial heating and cooling hydronic closed systems



ZVQ 3000HL-2P are 3-way zone units, suitable for diverting/changeover applications for use in heating and cooling systems. Units are suitable for long-term operation due to the special sealing construction of the valves and the compact and robust structure of the actuators. The low operating torque of the valve prevents the valve from blocking.

Zone valves ZVQ 3000HL are motorized with actuators series AQ5-2P, controlled by a 2-point signal, making a compact unit with high regulating accuracy and easy installation with a quick system that allows for assembly and disassembly the actuator in a simple, rapid, and secure way.

### Type overview\*

units with AQ5 F00C-2P L actuator

Code	Type	DN	Pipe connection	Thread	Kvs	Control signal	Running time	Voltage	Connection supply	Manual control	Ball port
30121	ZVQ 3120HL F00C-2P	20	Rp 3/4"	Internal thread	9	2P	20s/90°	230VAC	Cable	No	L
30122	ZVQ 3125HL F00C-2P	25	Rp 1"	Internal thread	14	2P	20s/90°	230VAC	Cable	No	L
30125	ZVQ 3220HL F00C-2P	20	G 1"	External thread	9	2P	20s/90°	230VAC	Cable	No	L
30126	ZVQ 3225HL F00C-2P	25	G 1 1/4"	External thread	14	2P	20s/90°	230VAC	Cable	No	L



\*Valves can also be used in combination with other actuators from the AQ5 product range, for more information please see AQ5-2P/AQ5-3P actuators.

### Technical data

#### Valve

Pipe connections	Rp internal thread (EN 10226-1), G external thread (ISO 228-1)
Nominal pressure	PN25
Max. diff. pressure	6 bar (max 2 bar for low noise operation)
Fluid temperature	-15 °C to +110 °C; (with actuator +2...90°C)
Fluid	Water, water with glycol up to 50 % vol. The water quality requirements specified in VDI 2035 must be adhered to
Max. leakage	Rate B according to: EN 12266-1:2003
Angle of rotation	90 °
Installation position	Upright to horizontal (related to stem)
Servicing	Maintenance-free. The installation of a strainer is recommended.
Material	
Valve body	Brass, CW617N
Ball	Chrome-plated brass
Seals	PTFE, EPDM Perox

#### Actuator AQ5 F00C-2P L

Control signal	2-point SPST
Supply voltage:	230VAC 50Hz
Running time	20s/90°
Power consumption	9 VA (operation), 7 VA (stand by relay on)
Connection supply	Cable 1m, 3x0,75 mm²
Direction and angle of rotation:	CW/CCW, 90°
Protection class	II
Degree of protection	IP44
Manual override	No
Position indication	Yes
Ambient temperature	0°C..+50°C
Storage temperature	-10°C..+70°C
Ambient humidity	Max. 80% RH, non-condensing
According to	EMC, LVD, EN 60730-2-14
Servicing	Maintenance-free

### Product range of zone units



**ZVQ 2000-2P**  
2-way zone unit



**ZVQ 3000HL-2P**  
3-way zone unit L ball



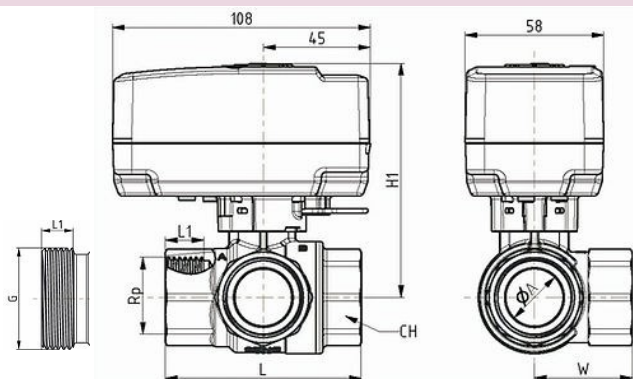
**ZVQ 3000HT -2P**  
3-way zone unit T ball



**ZVQ 3000V-2P**  
3-way zone unit L-L ball



## Dimensions



Type	DN	Pipe connection	L (mm)	W (mm)	L1 (mm)	H1 (mm)	ØA (mm)	CH (mm)	Weight (kg)
ZVQ 3120HL F00C-2P	20	Rp 3/4"	72	36	14	94	20	31	0,850
ZVQ 3125HL F00C-2P	25	Rp 1"	82	41	17	98	25	38	1,080
ZVQ 3220HL F00C-2P	20	G 1"	72	36	10	94	20	-	0,885
ZVQ 3225HL F00C-2P	25	G 1 1/4"	82	41	13	98	25	-	1,150

## Type code

### ZVQ 2115

- 15=DN15 / 20=DN20 / 25=DN25
- 1=internal thread / 2=external thread / 3=comp.fittings
- 2=2-way / 3=3-way
- Q=quick connection for the actuator
- ZV=zone valve

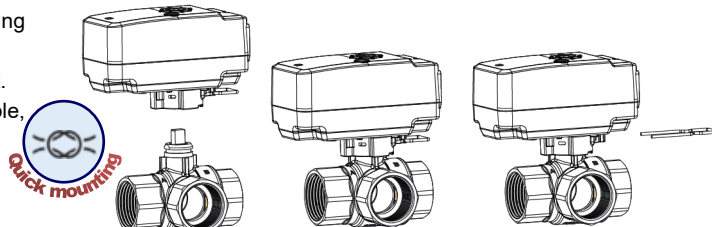
### AQ5 F00M-2P L

- Valve position indication: L=3-wayHL,3-wayV ;T=3-wayHT; not spec=2-way
- Control signal 2P=2-point, 3P=3-point, MC=Modulating
- Connection: M=Molex, C=Cable
- Manual control: 0=without manual control, 1=with manual control
- Voltage: 0=230VAC, 1=24VAC, 2=24VAC/DC
- Running time: F=20s/90°, G=40s/90°, H=55s/90°, I=110s/90°
- AQ5=Actuator with quick connection, max.torque 5 Nm

## Product features

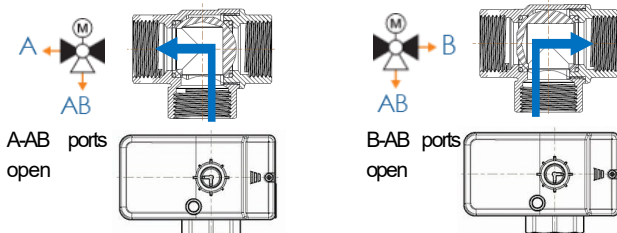
### Quick mounting and installation position

- The actuator can be mounted on the valve without tool use, by moving the actuator by hand vertically.
- To remove the actuator from the valve, the metal pin must be pulled out.
- Only one position of assembling the actuator to the valve is possible, mistake-proofing assembly.



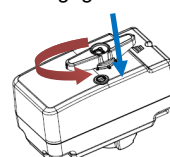
### Flow direction

Flow is possible in both directions.



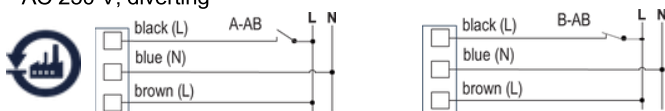
### Manual control

On items AQ5 xx0x manual control is possible using the actuator clicked out. On items AQ5 xx1x manual control is possible using a push-button and handle (the gearing is disengaged with a push-button).



### Wiring diagrams

AC 230 V, diverting



### Connection supply

Actuators are available with cable or Molex plug-in connector.



### Selection of rotary direction

The cover should be removed to access the settings (2-point version).



## Features and options

Actuators can be customized to different customer needs:

- Available with Cable or Molex connector
- Available with or without manual control

