

## BANICO ZONE VALVE SPECIFICATION

### 1. RATINGS AND SYSTEM DETAILS

System input voltage: 230Vac±10% 50/60Hz

Rated power: 6W

Protection class: IP20

Auxiliary switch: SPST 250V-3A

### 2. MODEL & TECHNICAL PARAMETER

Max. static pressure: 8.6bar

Type	Model	KV	Port type & size	Max closing-off pressure (bar)
Two-way (ZV)	ZV22C	4.3	22mm comp.	0.8
	ZV28C	5	28mm comp.	0.6
	ZV3/4C	4.3	21mm comp.	0.8
	ZV1C	5	27.4mm comp.	0.6
	ZV1/2-BSP-FM	4.3	1/2" internal thread	0.8
	ZV3/4-BSP-FM	4.3	3/4" internal thread	0.8
	ZV1-BSP-FM	5	1" internal thread	0.6
Three-way (ZVD/ZVM)	ZVM22C	4.3	22mm comp.	0.8
	ZVM28C	5	28mm comp.	0.6
	ZVM3/4C	4.3	21mm comp.	0.8
	ZVM1C	5	27.4mm comp.	0.6
	ZVM1/2-BSP-FM	4.3	G1/2" internal thread	0.8
	ZVM3/4-BSP-FM	4.3	G3/4" internal thread	0.8
	ZVM1-BSP-FM	5	G1" internal thread	0.6

Cable specification: 300VAC 80degC 5-color cable

### 3. MATERIAL

Motor

Valve body: Forged brass

Seal material: NBR

Actuator Chassis: Steel

Actuator Cover: Aluminum alloy

### 4. ENVIRONMENT

Operation Temp.: -10~60degC

Storage Temp: -20~65degC

Operation Humidify: <90% R.H., non-condensing

Storage Humidify: <90% R.H., non-condensing

Max. differential water pressure: *see chart in 2 MODEL & TECHNICAL PARAMETER*

Max static pressure: 8.6bar

### 5. WORKING

Working media: chilled/hot water

Media temperature: 5~88degC

Driving parts: single phase motor, spring return 230Vac 4RPM

Operation duration: Motor: 14s after power on; Spring: 3s after power off

## 6. DIMENSIONS

Model	Dimensions (mm)						
	A	B	C	D	E	F 2way	G 3way
ZV22C	87	55	60	112	79.5	101	-
ZV28C	87	55	60	115	79.5	101	-
ZV3/4C	87	55	60	112	79.5	101	-
ZV1C	87	55	60	114	79.5	101	-
ZV1/2-BSP-FM	87	55	60	94	79.5	101	-
ZV3/4-BSP-FM	87	55	60	94	79.5	101	-
ZV1-BSP-FM	87	55	60	92	79.5	101	-
ZVM22C	87	55	60	110	79.5	-	133
ZVM28C	87	55	60	115	79.5	-	137
ZVM3/4C	87	55	60	112	79.5	-	133
ZVM1C	87	55	60	115	79.5	-	137
ZVM1/2-BSP-FM	87	55	60	94	79.5	-	124
ZVM3/4-BSP-FM	87	55	60	94	79.5	-	124
ZVM1-BSP-FM	87	55	60	94	79.5	-	124

## 7. EMC REQUIREMENTS

EN 61000-3:2001

PASS: voltage fluctuations on AC mains

## 8. APPROVAL

CE

## 9. WIRING CONNECTION AND CONTROL OUTPUT

### (A) 2-WAY ZV

Control wire: Brown, Blue

Close valve (no water flow): Brown 0V, Blue is N

Open valve (water flow): Brown 230Vac, Blue is N

Auxiliary switch output (COM, NO)

Orange = COM

Grey = NO

When valve is open, orange and grey ports are shorted

When valve is closed, orange and grey ports are open

Yellow/Green wire is for earth.

### (B) 3-WAY ZVD

Water flow output

When A is open & B is closed; water flows out from A;

When B is open & A is closed; water flows out from B;

Control wire: White, Blue

When A is open & B is closed; white 0V, Blue is N;

When B is open & A is closed; white 230V, Blue is N;

Auxiliary switch output (COM, NO)

Orange = COM

Grey = NO

When valve is open, orange and grey ports are shorted

When valve is closed, orange and grey ports are open

Yellow/Green wire is for earth.

(C) 3-WAY ZVM

Water flow output

When A is open & B is closed; water flows out from A;

When A and B is open, water flows from A & B;

When B is open & A is closed;; water flows out from B;

Control wire: Grey, White, Blue

Open A, Close B: Grey 230Vac, White: 230Vac, Blue is N

Open A & B: White: 230Vac, Blue is N

Close A, Open B: Grey 0V, White: 0V, Blue is N

Auxiliary switch output (orange wire):

Only when A is open and B is closed, the orange outputs 230Vac.

Yellow/Green wire is for earth.