



The Z02VX range of detachable fan coil motorized valve is designed for two position (on/off) control of hot or cold water in heating and cooling HVAC systems. It features a synchronous motor designed for long life trouble free operation. The ZSRA actuators are equipped with spring return mechanism. Two or three way valves are designed with extension stem for ease of insulation.

- Low cost
- Tight shut-off
- Plastic housing (condensation free)
- Ease of insulation
- Spring return action
- Close-off pressure up to 250 kpa
- Compliance with CE
- Available for 24VAC, 110VAC, 230VAC

Function

The Z02VX series two position valves are designed to control heating or cooling water. Valve actuators are designed to withstand high moisture conditions found in many concealed installation.

Function

Valves are operated by a hysteresis synchronous motor. Upon demand, a normally closed valve is opened by the command signal of the thermostat. When the temperature is satisfied, a spring returns the valve to the closed position. The paddle assemblies close against the flow on 2-way valves. 3-way valves are normally closed to the coil side (See Dimensions overleaf)

Actuator

The actuators are enclosed in flame retardant plastic casing and **detachable** from the valve. With a new extended stem valve it is made for ease of insulation and replacement.

Installation

The valves are to be mounted according to the flow direction marks on the valves.

To ensure tight closure and prevent noise when closing, the valves are to be mounted on the return line of a coil.

The 3-way valve is of diverting type and should be mounted on the supply line at the diverting point.

The valves are recommended to be mounted with the actuator in an upright or side position.

Models

2-way	3-way	Connection	Kv	+Pc
Z02VX-215/ZSRA-2	Z02VX-315/ZSRA-3	DN15	Kv3.2	150kPa
Z02VX-220/ZSRA-2	Z02VX-320/ZSRA-3	DN20	Kv4.6	100kPa
Z02VX-225/ZSRA-2	Z02VX-325/ZSRA-3	DN25	Kv5.7	100kPa
Z02VX-232/ZSRA-2	Z02VX-332/ZSRA-3	DN32	Kv10	80kPa

Note: The actuators for 2/3-way valves cannot be interchanged!

Technical data

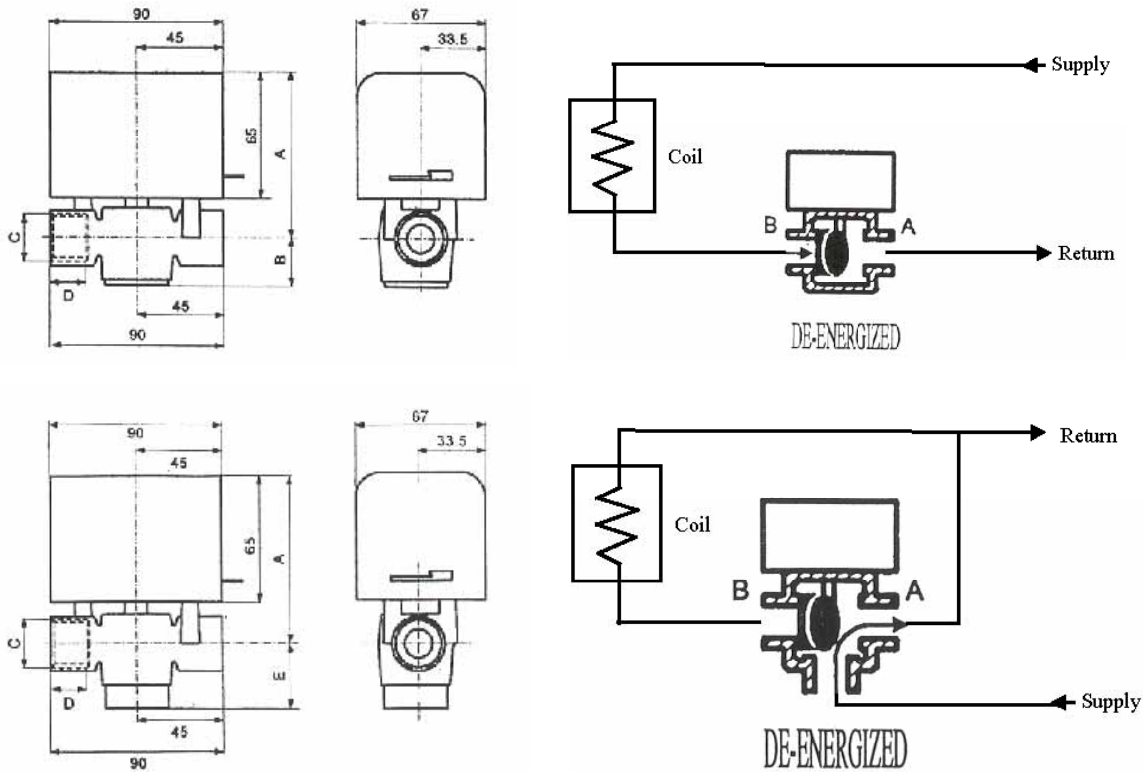
ACTUATORS

Power supply.....230 Vac, 50-60 Hz, +10%-15%
 Power consumption.....6 VA
 Actuator type.....synchronous motor
 Opening time.....9 - 11 seconds
 Closing time (spring).....4 - 5 seconds
 Housing material.....flame retardent plastic

VALVES

Fluid temperature.....-10 to 94°C
 Operating pressure limits.....PN20
 Hydraulic test pressure.....PN25
 Connections.....Female thread BSP
 Body material.....Forged brass
 Valve flap material.....NBR

Valve Dimensions



Water Valve Sizing Table

FLOW IN LITRE / SEC (l/s)							
Kvs	2.0	3.2	4.6	5.7	6.8	10	
Differential Pressure (+P, kPa)	20	0.25	0.40	0.57	0.71	0.84	1.24
	30	0.30	0.49	0.70	0.87	1.03	1.52
	34.45 (5 psi)	0.33 (3.6 USGPM)	0.52 (5.7 USGPM)	0.75 (8.2 USGPM)	0.93 (10.2 USGPM)	1.11 (12.2 USGPM)	1.63 (17.9 USGPM)
	40	0.35	0.56	0.81	1.00	1.19	1.76
	50	0.39	0.63	0.90	1.12	1.34	1.96

Size (inch) (mm)	A	B	C	D	E	F	G
1/2" 15	R1/2	16	80	40	103	21	29
3/4" 20	R3/4	19	89	44	103	21	32
1" 25	R1	21	93	44	103	23	37
1 1/4" 32	R1 1/4	23	105	54	110	30	45

Dimensions(mm)