



Application

The Z..S-...Zone valves are intended for the use in control terminal units such as fan-coil and VAV boxes in heating, ventilation and air conditioning systems. The valves can be used with hot and cold water in the temperature range from 0°C (non freezing) to 93°C.

Design features

The actuator consists of a synchronous motor with spring return function, which is available in most common used voltages. The valve is normally-closed. The valve body is made of forged brass. The actuator body consists of a stainless steel base plate with a PC cover. The water is regulated with the use of a special rubber flap, which will close the valve bubble tight.

Installation

The valve should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for actuator and service. The valve must be installed with the stem above the horizontal. The flow direction is indicated on the valve body. Do not reverse flow direction.

Manual operation

Manual operating lever: Move the lever slowly and hold it in the retaining notch, then the valve is opened. The lever goes back to the automatic position when the valve is first powered on.

Detachable Actuator

Valve actuator can be easily detached by push lever. Installation or maintenance can be more flexible.

Wiring diagram

To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductors (with at least a 3 mm contact gap).

AC 24, 120, 230V

Model	Description	Size	Cv	Kv	Close-Off pressure PSI (kPa)
Z215S	Normally Closed	1/2"	2.0	1.7	60 (414)
Z220S	Normally Closed	3/4"	2.5	2.2	50 (344)
Z225S	Normally Closed	1"	3.0	2.6	44 (303)

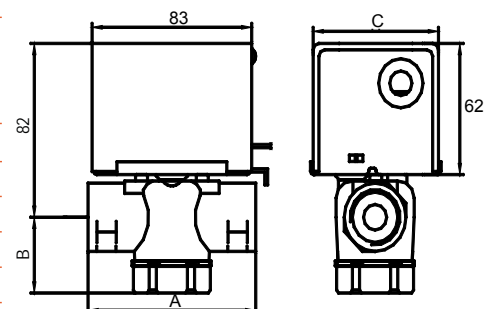
Order guide

Z..S-24, Z..S-120, Z..S-230

Technical data	Z..S-24, Z..S-120, Z..S-230
Rated power supply	Z..S-24 = 24V Z..S-120 = 120V, 50/60Hz Z..S-230 = 230V, 50/60Hz ± 10 %
Power consumption	6.5 Watts, 7VA
Connecting cable	10 cm long ; 2 x 0.75 mm ²
Operating time	- motor 13 to 18 sec - spring 4 to 5 sec
Ambient temperature range	0 to 40°C
Action	- spring return - normally closed
Medium	chilled or hot water, up to 50% Glycol
Sizes	1/2", 3/4", 1"
Type of end fitting	internal thread BSP
Materials	actuator Stainless Steel Base Plate, PC Cover valve body Forged Brass valve flap NBR
Fire protection rating	PC UL94-V2
Pressure rating	300 PSI-PN20 (2,100 kPa)
Close-off pressure	44 to 60 PSI (303 to 414 kPa)
Media temperature range	0 to 93°C (non-freezing)
Maintenance	maintenance free
Weight	1/2" 700 g 3/4" 850 g 1" 1000 g

Dimensions (mm)

Specifications	Dimensions (mm)		
	A	B	C
1/2" 2-way	70	23	66
3/4" 2-way	87	23	66
1" 2-way	96	26	66





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Design features

The actuator consists of a synchronous motor with spring return function, which is available in most common used volt-ages. The valve is normally-closed. The valve body is made of forged brass. The actuator body consists of a stainless steel base plate with a PC cover. The water is regulated with the use of a special rubber flap, which will close the valve bubble tight.

Wiring diagram

To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductors (with at least a 3 mm contact gap).

AC 24, 120, 230V



**Z..S-24, Z..S-120
Z..S-230**

Order guide

Model	Description	Size	Cv	Kv	Close-Off pressure PSI (kPa)
Z315S	Diverting 3-way	1/2"	2.5	2.2	60 (414)
Z320S	Diverting 3-way	3/4"	3.0	2.6	50 (344)
Z325S	Diverting 3-way	1"	3.5	3.0	44 (303)

Installation

The valve should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for actuator and service. The valve must be installed with the stem above the horizontal. The flow direction is indicated on the valve body. Do not reverse flow direction.

Manual operation

Manual operating lever: Move the lever slowly and hold it in the retaining notch, then the valve is opened. The lever goes back to the automatic position when the valve is first powered on.

Detachable Actuator

Valve actuator can be easily detached by push lever. Installation or maintenance can be more flexible.

Technical data	Z..S-24, Z..S-120, Z..S-230
Rated power supply	Z..S-24 = 24V Z..S-120 = 120V, 50 / 60 Hz Z..S-230 = 230V, 50 / 60 Hz ± 10 %
Power consumption	6.5 Watts, 7VA
Connecting cable	10 cm long ; 2 x 0.75 mm ²
Operating time	- motor 13 to 18 sec - spring 4 to 5 sec
Ambient temperature range	0 to 40°C
Action	- spring return - port "A" open
Medium	chilled or hot water, up to 50% Glycol
Sizes	1/2" , 3/4" , 1"
Type of end fitting	internal thread BSP
Materials	actuator Stainless Steel Base Plate, PC Cover valve body Forged Brass valve flap NBR
Fire protection rating	PC UL94-V2
Pressure rating	300 PSI-PN20 (2,100 kPa)
Close-off pressure	44 to 60 PSI (303 to 414 kPa)
Media temperature range	0 to 93°C (non-freezing)
Maintenance	maintenance free
Weight	1/2" 750 g 3/4" 900 g 1" 1050 g

Dimensions (mm)

Specifications	Dimensions (mm)		
	A	B	C
1/2" 3-way	70	31	66
3/4" 3-way	87	37	66
1" 3-way	96	42	66

