BELIMO

Technical data sheet ZONE220S-50

2-year warranty

Type overview

Type	DN
ZONE220S-50	20

Technical data

Functional data	Valve size [mm]	0.75" [20]
	Fluid	chilled or hot water, up to 50% glycol
	Fluid Temp Range (water)	32...212°F [0...100°C]
	Body Pressure Rating	300 psi
	Close-off pressure Δps	25 psi
	Flow characteristic	on/off
	Flow Pattern	2-way
	Leakage rate	ANSI Class III 0.1%
	Cv	5
Materials	Valve body	forged brass
	Housing seal	EPDM
	Spindle	stainless steel
	Seat	EPDM
	Pipe connection	sweat
Suitable actuators	Spring	ZONE

Product features

Application

This valve is typically used on fan coil units, baseboards or other hydronic applications where fail safe operation on 2-wire control is required. This valve is suitable for use in a hydronic system with variable or constant flow.

This valve is designed to fit in compact areas where on/off or control is required using 24 VAC or 120 VAC.

Dimensions

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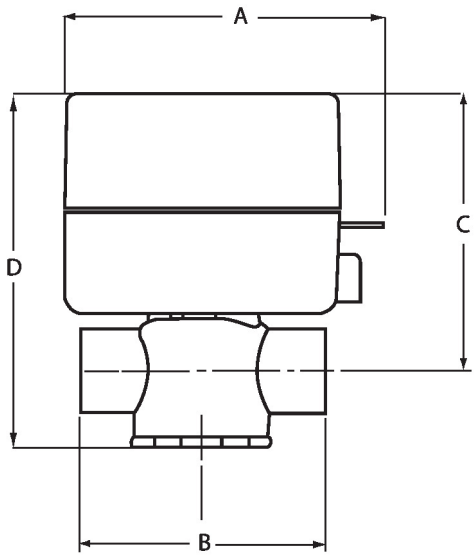
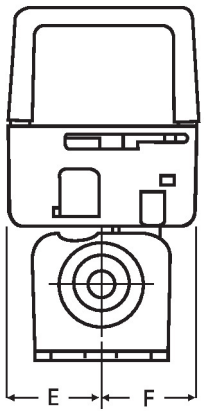
ZONE220S-50	20





A	B	C	D	E	F
4.0" [102]	2.8" [70]	3.5" [89]	4.4" [113]	1.2" [30]	1.2" [31]

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Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	6.5 W
	Transformer sizing	7 VA (class 2 power source)
	Electrical Connection	6" wire leads
Functional data	Angle of rotation	90°
	Running time fail-safe	<5 s
	Noise level, motor	35 dB(A)
	Noise level, fail-safe	35 dB(A)
Safety data	Degree of protection IEC/EN	IP20
	Degree of protection NEMA/UL	NEMA 1
	Enclosure	UL Enclosure Type 1
	Agency Listing	CE, cULus
	Quality Standard	ISO 9001
	Ambient temperature	32...104 [0...40°C]
	Storage temperature	-40...176°F [-40...80°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Materials	Housing material	galvanized steel

Electrical installation

INSTALLATION NOTES

Meets cULus requirements without the need of an electrical ground connection.

One built-in auxiliary switch, 1x SPST 0.4A @ 24 VAC (resistive and inductive loads).

Wiring diagrams

Built-in Auxiliary Switch (optional) (only on -S models)