

ZONE320S-35, 3/4", Electronic Zone Valve

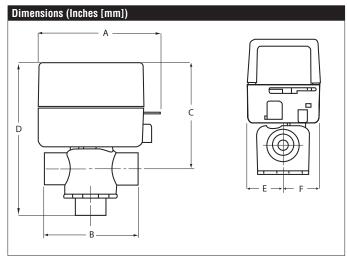


Application

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.

Suitable Actuators				
	Spring			
ZONE320S-35	ZONE			



A	В	С	D	E	F
4" [102]	2.83" [72]	3.5" [89]	5" [127]	1.18	" [30]
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Technical DataServicechilled or hot water, up to 50% glycolFlow Characteristicon/off, divertingSize [mm]0.75" [20]End FittingsweatBodyforged brassBody SealEPDMStemstainless steelSeatEPDMBody Pressure Rating [psi]300Media Temperature Range (Water)32°F to 212°F [0°C to 100°C] (Water)Close-Off Pressure30 psiCv3.5Weight0.9 lb [0.4 kg] LeakageLeakageANSI Class III 0.1%		
Flow Characteristicon/off, divertingSize [mm]0.75" [20]End FittingsweatBodyforged brassBody SealEPDMStemstainless steelSeatEPDMBody Pressure Rating [psi]300Media Temperature Range (Water)32°F to 212°F [0°C to 100°C] (Water)Close-Off Pressure30 psiCv3.5Weight0.9 lb [0.4 kg]	Technical Data	
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End Fitting sweat Body forged brass Body Seal EPDM Stem stainless steel Seat EPDM Body Pressure Rating [psi] 300 Media Temperature Range (Water) 32°F to 212°F [0°C to 100°C] Close-Off Pressure 30 psi Cv 3.5 Weight 0.9 lb [0.4 kg]	Flow Characteristic	on/off, diverting
Body forged brass Body Seal EPDM Stem stainless steel Seat EPDM Body Pressure Rating [psi] 300 Media Temperature Range (Water) 32°F to 212°F [0°C to 100°C] Close-Off Pressure 30 psi Cv 3.5 Weight 0.9 lb [0.4 kg]	Size [mm]	0.75" [20]
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Stem stainless steel Seat EPDM Body Pressure Rating [psi] 300 Media Temperature Range (Water) 32°F to 212°F [0°C to 100°C] Close-Off Pressure 30 psi Cv 3.5 Weight 0.9 lb [0.4 kg]	Body	forged brass
Seat EPDM Body Pressure Rating [psi] 300 Media Temperature Range (Water) 32°F to 212°F [0°C to 100°C] Close-Off Pressure 30 psi Cv 3.5 Weight 0.9 lb [0.4 kg]	Body Seal	EPDM
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(Water) 30 psi Close-Off Pressure 30 psi Cv 3.5 Weight 0.9 lb [0.4 kg]	Body Pressure Rating [psi]	300
Close-Off Pressure 30 psi Cv 3.5 Weight 0.9 lb [0.4 kg]	Media Temperature Range	32°F to 212°F [0°C to 100°C]
Cv 3.5 Weight 0.9 lb [0.4 kg]	(Water)	
Weight 0.9 lb [0.4 kg]	Close-Off Pressure	30 psi
	Cv	3.5
Leakage ANSI Class III 0.1%	Weight	0.9 lb [0.4 kg]
	Leakage	ANSI Class III 0.1%



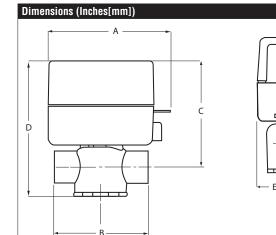
ZONE230NC-S

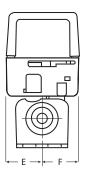






Power Supply230 VAC ± 10%, 50/60 HzPower Consumption Running6.5 WTransformer Sizing7 VA (class 2 power source)Electrical Connection6" wire leadsAngle of Rotation90°Position Indicationintegrated into lever (NC only)Manual Overridemanual leverRunning Time (Motor)20 to 40 secRunning Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)Servicingmaintenance freeQuality StandardISO 9001Weight0.9 lb [0.4 kg]		
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Transformer Sizing7 VA (class 2 power source)Electrical Connection6" wire leadsAngle of Rotation90°Position Indicationintegrated into lever (NC only)Manual Overridemanual leverRunning Time (Motor)20 to 40 secRunning Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Power Supply	230 VAC ± 10%, 50/60 Hz
Electrical Connection6" wire leadsAngle of Rotation90°Position Indicationintegrated into lever (NC only)Manual Overridemanual leverRunning Time (Motor)20 to 40 secRunning Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Power Consumption Running	6.5 W
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Position Indicationintegrated into lever (NC only)Manual Overridemanual leverRunning Time (Motor)20 to 40 secRunning Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Electrical Connection	6" wire leads
Manual Overridemanual leverRunning Time (Motor)20 to 40 secRunning Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Angle of Rotation	90°
Running Time (Motor)20 to 40 secRunning Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Position Indication	integrated into lever (NC only)
Running Time (Fail-Safe)5 sec (default), variable 2.5 to 10 secHumidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Manual Override	manual lever
Humidity5 to 95% RH non-condensingAmbient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Running Time (Motor)	20 to 40 sec
Ambient Temperature Range32°F to 104°F [0°C to 40°C]Storage Temperature Range-40°F to 176°F [-40°C to 80°C]HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Running Time (Fail-Safe)	5 sec (default), variable 2.5 to 10 sec
Storage Temperature Range -40°F to 176°F [-40°C to 80°C] Housing NEMA type 1 / IP20 Housing Material UL94-5VB Agency Listings† CE, cULus Noise Level (Motor) <35 dB (A)	Humidity	5 to 95% RH non-condensing
HousingNEMA type 1 / IP20Housing MaterialUL94-5VBAgency Listings†CE, cULusNoise Level (Motor)<35 dB (A)	Ambient Temperature Range	32°F to 104°F [0°C to 40°C]
Housing Material UL94-5VB Agency Listings† CE, cULus Noise Level (Motor) <35 dB (A)	Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]
Agency Listings† CE, cULus Noise Level (Motor) <35 dB (A)	Housing	NEMA type 1 / IP20
Noise Level (Motor) <35 dB (A)	Housing Material	UL94-5VB
Servicing maintenance free Quality Standard ISO 9001 Weight 0.9 lb [0.4 kg] Auxiliary Switch 1 x SPST, 5A resistive (5A inductive) @ 230	Agency Listings†	CE, cULus
Quality Standard ISO 9001 Weight 0.9 lb [0.4 kg] Auxiliary Switch 1 x SPST, 5A resistive (5A inductive) @ 230	Noise Level (Motor)	<35 dB (A)
Weight 0.9 lb [0.4 kg] Auxiliary Switch 1 x SPST, 5A resistive (5A inductive) @ 230	Servicing	maintenance free
Auxiliary Switch 1 x SPST, 5A resistive (5A inductive) @ 230	Quality Standard	ISO 9001
	Weight	0.9 lb [0.4 kg]
	Auxiliary Switch	







ZONE230NC-S

Wiring Diagrams

X 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).

