

G350B-N, 3-Way, Globe Valve, Bronze Trim, Mixing/Diverting

chilled, hot water, up to 60% glycol

stem up - open B to AB

NPT female ends

stainless steel

EPDM O-ring

2" [50]

bronze

bronze

ANSI 250

35 psi (241 kPa)

ANSI Class VI

brass

41

modified equal percentage, linear B to AB

ANSI 250 (up to 400 psi below 150°F)

20°F to 280°F [-7°C to 138°C]

A-port 100:1, B-port 50:1



Technical Data Service

Size [mm]

End Fitting

Stem Packing

ANSI Class

Rangeability

(Water)

Cv

Body

Stem

Seat

Plug

Flow Characteristic

Controllable Flow Range

Body Pressure Rating [psi]

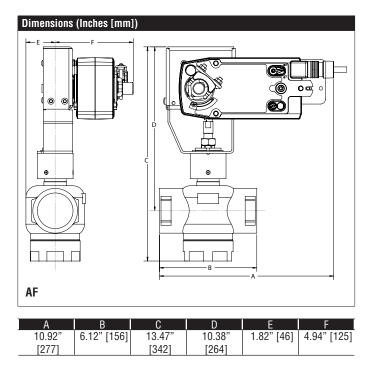
Media Temperature Range

Max Differential Pressure (Water)

Application

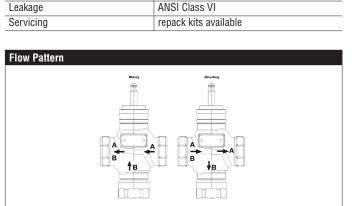
This valve is typically used in Air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in hydronic system with constant or variable flow. These 3-way valves can be used for both Mixing and Diverting depending on the piping configuration.

Suitable Actuators							
		Non-Spring	Spring	Electronic Fail-Safe			
G35	0B-N	SVB(X)	AFB(X)	SVKB(X)			

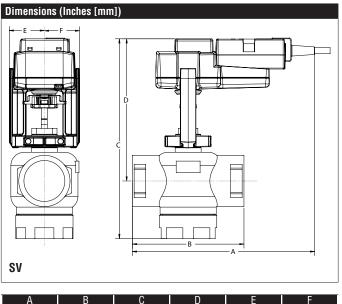


Piping

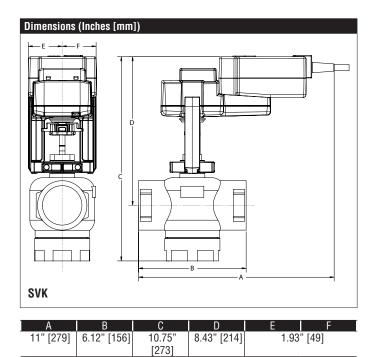
The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators.







A	В	C	D	E	F
10.2" [259]	6.12" [156]	10.90" [277]	7.81" [198]	1.93	" [49]





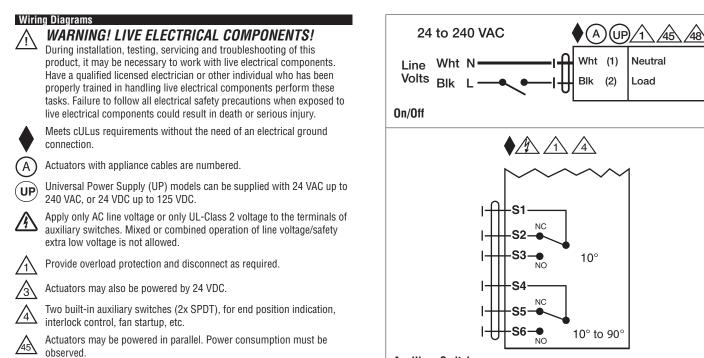


Technical Data			
Power Supply	24240 VAC, -20% / +10%, 50/60 Hz,		
	24125 VDC, ±10%		
Power Consumption Running	7.5 W		
Power Consumption Holding	3.5 W		
Transformer Sizing	7 VA @ 24 VAC (class 2 power source), 8.5		
	VA @ 120 VAC, 18 VA @ 240 VAC		
Electrical Connection	(2) 3ft [1m], 18 GA appliance cables with		
	1/2" conduit connectors		
Overload Protection	electronic throughout 0° to 95° rotation		
Operating Range Y	on/off		
Feedback Output U	No Feedback		
Angle of Rotation	95°,		
Torque motor	Min. 180 in-lbs [20 Nm]		
Direction of Rotation (Motor)	reversible with CW/CCW mounting		
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting		
Position Indication	visual indicator, 0° to 95° (0° is full spring		
	return position)		
Manual Override	5 mm hex crank (3/16" Allen), supplied		
Running Time (Motor)	<75 sec		
Running Time (Fail-Safe)	<20 sec		
Ambient Humidity	max. 95% RH non-condensing		
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]		
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]		
Housing	NEMA 2, IP54, UL Enclosure Type 2		
Housing Material	zinc coated metal and plastic casing		
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA		
	E60730-1:02, CE acc. to 2004/108/EC and		
	2006/95/EC		
Noise Level (Motor)	<50 dB (A)		
Noise Level (Fail-Safe)	<62 dB (A)		
Servicing	maintenance free		
Quality Standard	ISO 9001		
Weight	4.6 lb [2.1 kg]		
Auxiliary switch	2 x SPDT, 3A resistive (0.5A inductive) @		
	250 VAC, one set at 10°, one adjustable 10° to 90°		
	10 90		

†Rated Impulse Voltage 4kV, Type of Action 1.AA.B, Control Pollution Degree 3.



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Auxiliary Switches

Parallel wiring required for piggy-back applications.