B224VSS, 2-Way, Ball Valve Stainless Steel Body, Ball and Stem





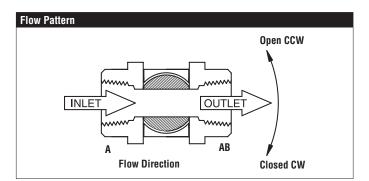
Application

These threaded valves are designed to provide modulating or two position control of hot or chilled water and saturated steam systems under 50 psi. Typical applications include reheat coils, VAV terminal control, unit ventilators, and air handlers, especially in areas which have minimum profile requirements. Up to 50 psi steam

1/2" - 2000 PSIG WOG, Cold Non-Shock Federal Specification: WW-V-35C, Type II Composition: SS Style: 3

Suitable Actuators			
l l	Non-Spring	Spring	
B224VSS	AMB(X), SY1	AFB(X)	

Technical Data	
Service	chilled or hot water, up to 60% glycol,
	steam
Flow Characteristic	modified equal percentage
Controllable Flow Range	90° rotation, A to AB open CCW, B to AB
	open CW
Size [mm]	1" [25]
End Fitting	sae npt (female connections)
Body	A351-CF8M 316 Stainless Steel
Body Seal	PTFE
Ball	316 stainless steel
Gland	A276-316
Stem	316 stainless steel
Stem Packing	reinforced PTFE
Stem Bearing	reinforced PTFE
Jam Nut	stainless steel
Seat	reinforced PTFE w/ Durafill
Body Pressure Rating [psi]	1500 psig WOG
Max Inlet Pressure (Steam)	50 psi
Media Temperature Range	-22°F to 298°F [-30°C to 148°C]
(Water)	
Maximum Differential Pressure	50 psi
(Steam)	
Max Differential Pressure (Water)	<600 psig
Close-Off Pressure	1000 psi
Maximum Velocity	15 FPS
Cv	43
Weight	1.8 lb [0.8 kg]
Leakage	ANSI Class VI





AMB24-3-X1 On/Off, Floating Point, Non-Spring Return, 24 V





Technical Data			
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
Power Consumption Running	2.5 W		
Power Consumption Holding	0.5 W		
Transformer Sizing	5.5 VA (class 2 power source)		
Electrical Connection	3ft [1m], 18 GA plenum rated cable with 1/2" conduit connector protected NEMA 2 (IP54)		
Overload Protection	electronic thoughout 0° to 90° rotation		
Input Impedance	600 Ω		
Angle of Rotation	Max. 95°, adjustable with mechanical stop		
Torque motor	Min. 180 in-Ibs [20 Nm]		
Direction of Rotation (Motor)	reversible with built-in switch		
Position Indication	reflective visual indicator (snap on)		
Manual Override	external push button		
Running Time (Motor)	90 sec		
Ambient Humidity	5 to 95% RH non condensing (EN 60730-1)		
Ambient Temperature Range	-22°F to 150°F [-30°C to 65°C]		
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]		
Housing	NEMA 2, IP54		
Housing Material	UL94-5VA		
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)	<45 dB (A)		
Servicing	maintenance free		
Quality Standard	ISO 9001		
Weight	2 lb [0.9 kg]		

 $\ensuremath{ \ \ }$ +Rated Impulse Voltage 800V, Type action 1.B , Control Pollution Degree 3.



AMB24-3-X1

On/Off, Floating Point, Non-Spring Return, 24 V

Wiring Diagrams

🔀 INSTALLATION NOTES

A Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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

WARNING! LIVE ELECTRICAL COMPONENTS!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

