Date created, 02/23/2018 - Subject to change. © Belimo Aircontrols (USA), Inc.

B219VSS, 2-Way, Ball Valve Stainless Steel Body, Ball and Stem

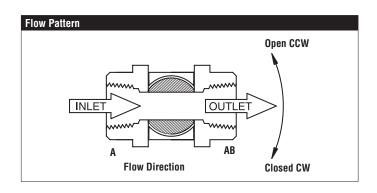








Technical Data		
Service	chilled or hot water, up to 60% glycol,	
	steam	
Flow Characteristic	modified equal percentage	
Controllable Flow Range	90° rotation, A to AB open CCW, B to AB	
	open CW	
Size [mm]	0.75" [20]	
End Fitting	sae npt (female connections)	
Body	A351-CF8M 316 Stainless Steel	
Body 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	30	
Weight	1.3 lb [0.6 kg]	
Leakage	ANSI Class VI	



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

Outlable Addators		
	Non-Spring	Spring
B219VSS	NMB(X), SY1	LF

NFB24-X1 On/Off, Spring Return, 24 VAC/DC





24 VAC, ±20%, 50/60 Hz, 24 VDC, -10% /	
+20%	
6 W	
2.5 W	
8.5 VA (class 2 power source)	
3ft [1m], 18 GA appliance cable with 1/2" conduit connector	
electronic throughout 0° to 95° rotation	
90°, adjustable with mechanical stop	
Min. 90 in-lbs [10 Nm]	
reversible with CW/CCW mounting	
reversible with CW/CCW mounting	
visual indicator, 0° to 95° (0° is full spring	
return position)	
5 mm hex crank (3/16" Allen), supplied	
<75 sec	
<20 sec @ -4°F to 122°F [-20°C to 50°C],	
<60 sec @ -22°F [-30°C]	
max. 95% RH non-condensing	
-22°F to 122°F [-30°C to 50°C]	
-40°F to 176°F [-40°C to 80°C]	
NEMA 2, IP54, UL Enclosure Type 2	
zinc coated metal and plastic casing	
cULus acc. to UL60730-1A/-2-14, CAN/CSA	
E60730-1:02, CE acc. to 2004/108/EC and	
2006/95/EC	
<50 dB (A)	
<62 dB (A)	
maintenance free	
ISO 9001	

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3





Wiring Diagrams



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.



X INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



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.

