

Ball Valve (VSS), 2", 2-way, Cv 108

- NSF/ANSI 61 Water Quality C. Hot
- NSF/ANSI 372 Lead Free

Type overview





Туре		DN
B249VSS		50
Technical data		
Functional data	Valve size [mm]	2" [50]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	-22298°F [-30148°C]
	Body Pressure Rating	1500 psig WOG
	Close-off pressure Δps	1000 psi
	Flow characteristic	modified equal percentage
	Leakage rate	ANSI Class VI
	Pipe connection	Internal thread
		NPT (female)
	Max Differential Pressure (Steam)	50 psi
	Flow Pattern	2-way
	Controllable flow range	90° rotation, A – AB open ccw, B – AB open c
	Cv	108
	Maximum Inlet Pressure (Steam)	50 psi
	Maximum Velocity	15 FPS
Materials	Valve body	Stainless steel A351-CF8M 316
	Housing seal	PTFE
	Stem	316 stainless steel
	Stem seal	RPTFE

Seat Lock nut

Ball

Spring

Non Fail-Safe

Electrical fail-safe

Suitable actuators

Note: NSF/ANSI/CAN 61 Section 8, Annex G, NSF/ANSI 372 - Drinking Water System Components - Lead Content. Suitable for Cold, Domestic Hot, and Commercial Hot applications.

RPTFE

GMB(X) PRB(X)

GKB(X) PKRB(X)

 AF

stainless steel

316 stainless steel



Product features

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.

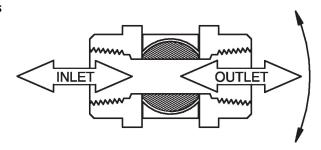
Up to 50 psi steam

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

Composition: SS

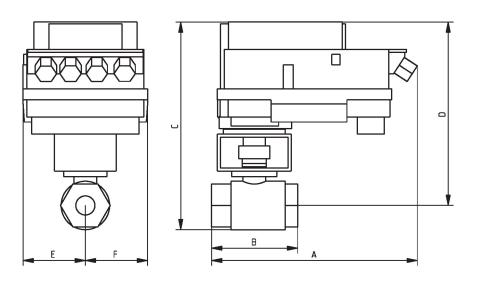
Style: 3

Flow/Mounting details



Dimensions

Туре	DN	Weight
B249VSS	50	6.2 lb [2.8 kg]



B249VSS+PKR..

Α	В	С	D	E	F
12.8" [325]	5.5" [140]	13.3" [337]	11.7" [298]	4.0" [102]	4.0" [102]



On/Off, Spring return, 24 V







Technical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V	
	Power consumption in operation	5 W	
	Power consumption in rest position	2.5 W	
	Transformer sizing	36 VA	
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	Direction of motion motor	selectable by ccw/cw mounting	
	Direction of motion fail-safe	reversible with cw/ccw mounting	
	Manual override	5 mm hex crank (3/16" Allen), supplied	
	Angle of rotation	95°	
	Running Time (Motor)	75 s / 90°	
	Running time fail-safe	<20 s	
	Noise level, motor	50 dB(A)	
	Noise level, fail-safe	62 dB(A)	
	Position indication	Mechanical	
Safety data	Power source UL	Class 2 Supply	
	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU	
	Quality Standard	ISO 9001	
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Servicing	maintenance-free	
	-		

[]

Galvanized steel and plastic housing

Weight

Materials

Weight

Housing material



Technical data

Footnotes *Variable when configured with MFT options.

Electrical installation

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

Actuators with appliance cables are numbered.

 Λ Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

Actuators may be powered in parallel. Power consumption must be observed.

As Parallel wiring required for piggy-back applications.

Wiring diagrams

