

Ball Valve (VS), DN 1" [25], 2-way, Cv 43





Picture may differ from product

Type overview	
Туре	DN
B224VS	1" [25]

Technical data

F	H	ncti	nΩ	al	d.	ai	a	
	u		~	•	•	u.		

Valve size [mm]	1" [25]
Fluid	chilled or hot water, up to 60% glycol, steam
Fluid Temp Range (water)	-22280°F [-30138°C]
Body Pressure Rating	600 psig WOG psi
Close-off pressure Δps	600 psi
Flow characteristic	modified equal percentage
Leakage rate	ANSI Class VI
Pipe connection	Internal thread NPT (female)
Max Differential Pressure (Steam)	35 psi
Flow Pattern	2-way
Controllable flow range	90° rotation
Cv	43
Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
Value hady	Prompo PE94 C94400

Materials

Valve body	Bronze B584-C84400
Housing seal	PTFE
Stem	316 stainless steel
Stem seal	RPTFE
Seat	RPTFE
Lock nut	stainless steel
Retainer	B16 Brass
Ball	316 stainless steel
Non Fail-Safe	AMB(X)
	GRCB(X)
	GRB(X)

Suitable actuators

Non Fall-Safe	AIVIB(X)
	GRCB(X)
	GRB(X)
Spring	AF

Safety notes



• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



Product features

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 a hydronic system with variable flow

This valve is designed with MFT functionally which facilitates the use of various control input.

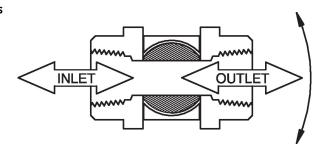
Up to 35 psi steam

1/2" - 2" 600 PSIG WOG, Cold Non-Shock Federal Specification: WW-V-35C, Type II

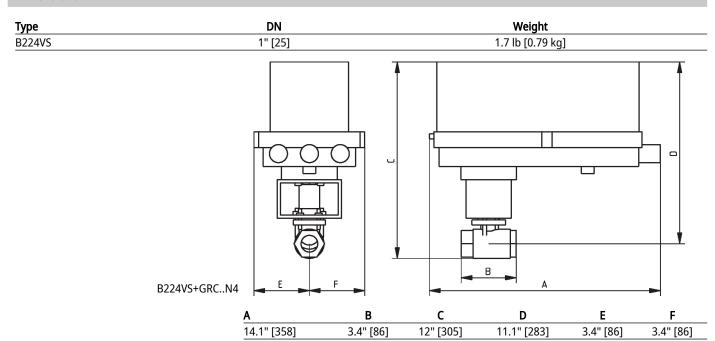
Composition: BZ

Style: 3

Flow/Mounting details



Dimensions





On/Off, Spring return, 24 V





_					
Te	rh	ni	ral	d	ata

Electrical data	Neminal voltage	AC/DC 24 V		
Electifical data	Nominal voltage Nominal voltage frequency	50/60 Hz		
	Nominal voltage rrequericy 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 Electrical Connection	7.5 VA		
		18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Position feedback U note	No Feedback		
	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]		
		maintenance-free		
	Servicing	maintenance-iree		
Weight	Servicing Weight	4.5 lb [2.0 kg]		



Technical data

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

Electrical installation



/\ 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.

(A) Actuators with appliance cables are numbered.

Yerovide 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.

Parallel wiring required for piggy-back applications.

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

Wiring diagrams



