

Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem





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Type overview			
Туре			DN
B2100VB-024			25
Technical data			
	Functional data	Valve size [mm]	1" [25]
		Fluid	chilled or hot water, up to 60% glycol, steam
		Fluid Temp Range (water)	-22380°F [-30193°C]
		Fluid Temp Range (steam)	-22380°F [-30193°C]
		Body Pressure Rating	ANSI Class 300
		Close-off pressure Δps	250 psi
		Flow characteristic	equal percentage
		Rangeability Sv	300:1
		Maximum differential pressure (water)	150 psi
		Max Differential Pressure (Steam)	100 psi
		Close-Off Pressure (Steam)	150 psi
		Flow Pattern	2-way
		Leakage rate	ANSI Class IV
		Controllable flow range	75°
		Cv	24
		Maximum Inlet Pressure (Steam)	150 psi
	Materials	Valve body	WCC grade carbon steel
		Body finish	matt black body finish
		Stem	stainless steel
		Stem seal	PTFE V-ring
		Seat	PTFE
		Pipe connection	NPT
		Ball	stainless steel
	Suitable actuators	Non-Spring	SY1 AMB(X)
			PRB(X)

Spring

Electrical fail-safe

NF

PKRB(X)



Product features

Application

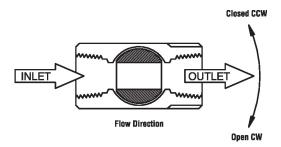
Water-side control of air handling apparatus in ventilation and air-conditioning system.

Water/Steam control in heating system.

300:1 rangeability.

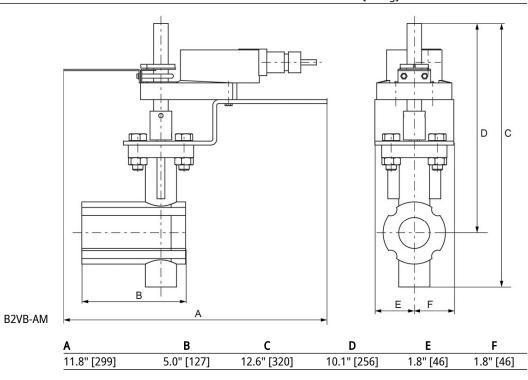
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).

Flow/Mounting details

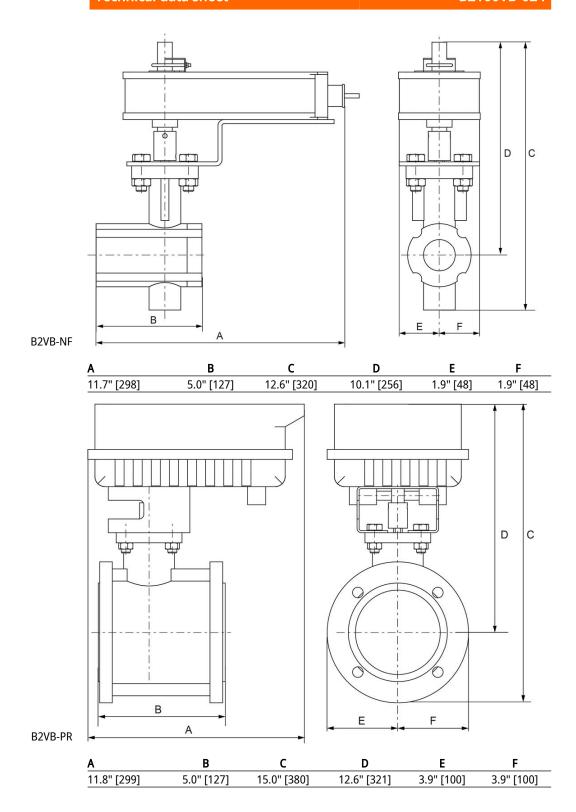


Dimensions

Туре	DN	Weight	
B2100VB-024	25	9.02 lb [4.1 kg]	













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Electrical data	Nominal voltage	AC 24240 V / DC 24125 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.2264 V / DC 21.6137.5 V	
	Power consumption in operation	6 W	
	Power consumption in rest position	2.5 W	
	Transformer sizing	9.5 VA	
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" NPT conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	Torque motor	10 Nm	
	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 @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]	
	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 and 2014/35/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	
Weight	Weight	4.5 lb [2.0 kg]	
Materials	Housing material	Galvanized steel and plastic housing	

Footnotes †Rated Impulse Voltage 800V, 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.

> INSTALLATION NOTES

- (A) Actuators with appliance cables are numbered.
- (UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.
- A Provide overload protection and disconnect as required.

