

Stainless Steel Ball and Stem

Carbon Steel Body, Hardened Chrome Plated,

**Technical data sheet** 

# B2150VB-055







### Technical data

Functional data	Valve Size	1.5" [40]
	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 ∆ps	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	55
	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 female ends
	Ball	stainless steel
Suitable actuators	Non-Spring	SY1
		AMB(X)
		PRB(X)
	Spring	NF
	Electronic fail-safe	PKRB(X)

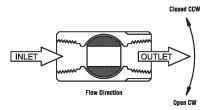
#### **Product features**

Product features	Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two- piece body construction
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).



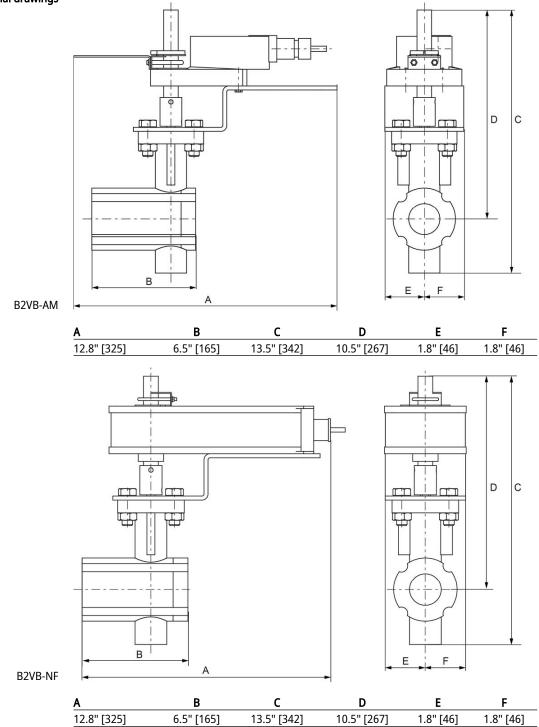
**Technical data sheet** 

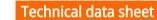
## Flow/Mounting details



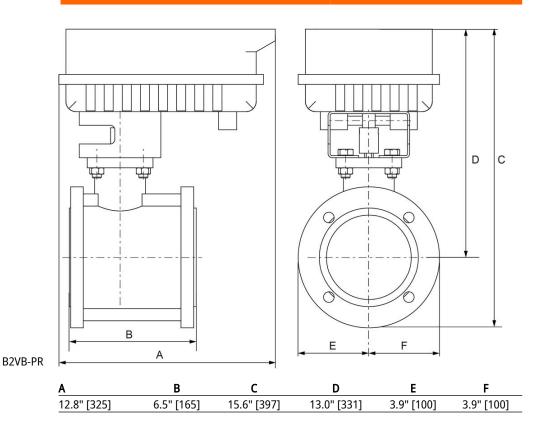
Dimensions

### **Dimensional drawings**











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



# AMB24-3-X1





### **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	5.5 VA
	Transformer sizing	5.5 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic thoughout 090° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 95°, adjustable with mechanical stop
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	90 s, constant, independent of load
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	Mechanically, 3065 mm stroke
Safety data	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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22149°F [-3065°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	2.0 lb [0.90 kg]
Materials	Housing material	UL94-5VA

### Product features

Mode of operation SY9~12 Replacement Handwheel



Accessories

Electrical accessories	Description	Туре
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Battery backup system, for non-spring return models	NSV24 US

**Electrical installation** 

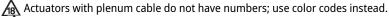
# X INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

- $\bigwedge$  Provide overload protection and disconnect as required.
- Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

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.



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

#### Marning! 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.

