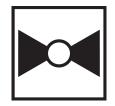


Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem





2-year warranty



Technical data

E	ın	cti	in	na	ΙН	ata

Valve Size	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
Valve body	WCC grade carbon steel

Materials

Body finish	matt black body finish
Stem	stainless steel
Stem seal	PTFE V-ring
Seat	PTFE
Pipe connection	NPT female ends
Ball	stainless steel
Non-Spring	SY1
	AMB(X) PRB(X)
Spring	NF

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, twopiece body construction

Application

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

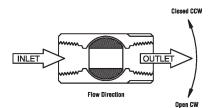
Water/Steam control in heating system.

300:1 rangeability.

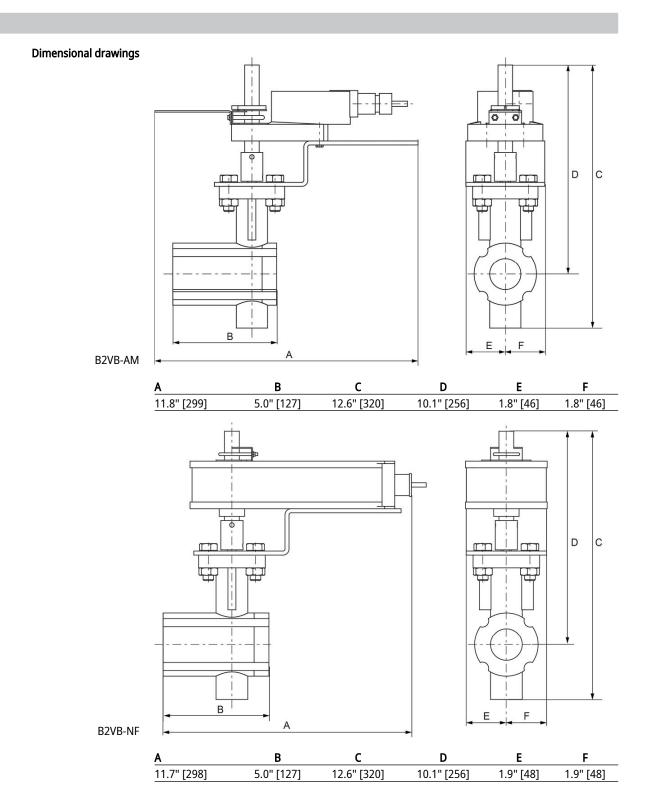
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).



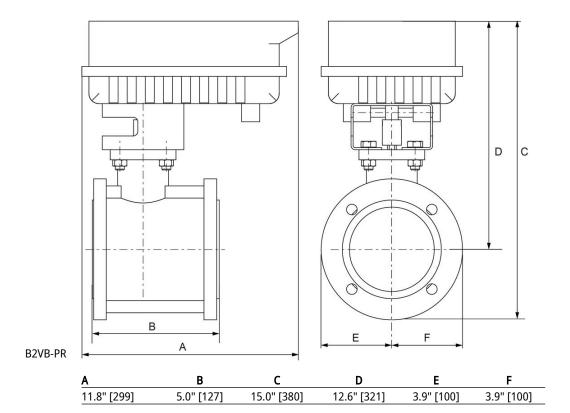
Flow/Mounting details



Dimensions















	7	
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]

Product features

Mode of operation SY9~12 Replacement Handwheel

Housing material

Materials

UL94-5VA



Accessories

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

Electrical installation

X INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

Trovide 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.

Actuators with plenum cable do not have numbers; use color codes instead.

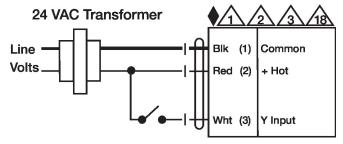
Meets cULus requirements without the need of an electrical ground connection.

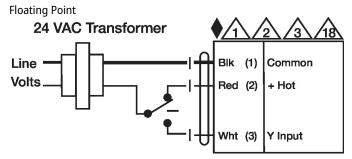
Warning! Live electrical components!

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.

Wiring diagrams

On/Off





24 VAC Transformer

Line Volts

Hot Red (2) + Hot Wht (3) Y Input

