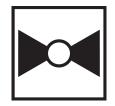


Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem





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.

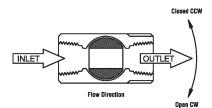
Water/Steam control in heating system.

300:1 rangeability.

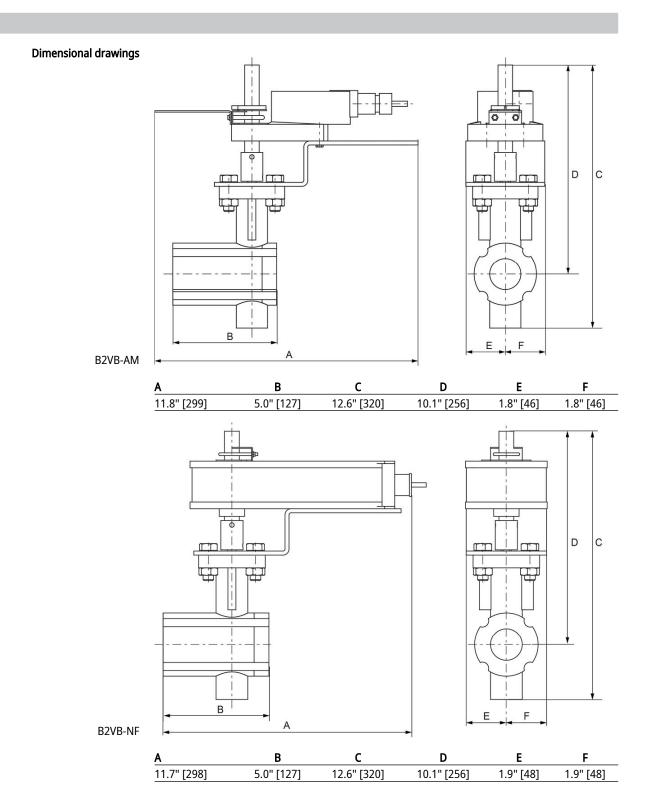
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).



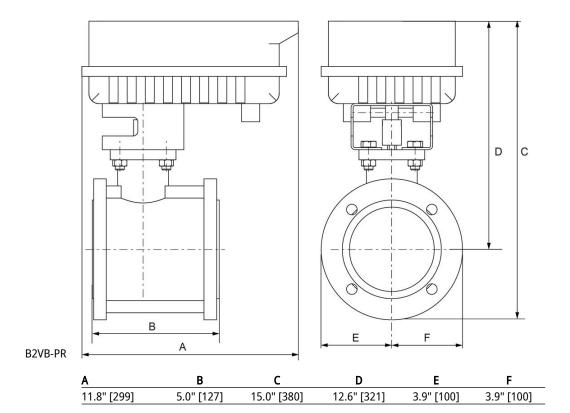
### Flow/Mounting details



## **Dimensions**













Technical data		
Electrical data	Nominal voltage	AC/DC 24 V
Electrical data	Nominal voltage	50/60 Hz
	Nominal voltage frequency	
	Power consumption in operation	6 W
	Power consumption in rest position	2.5 W
	Power consumption for wire sizing	8.5 VA
	Transformer sizing	8.5 VA (class 2 power source)
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" 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	90°, adjustable with mechanical stop
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	75 s
	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	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 us in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	4.1 lb [1.9 kg]
•	-	

## **Product features**

Mode of operation Weathershield for VS/VSS (LM/NM/LF)

Housing material

Materials

Galvanized steel and plastic housing



#### **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.

A Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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

### Wiring diagrams On/Off

