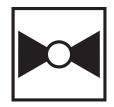
Carbon Steel Body, Hardened Chrome Plated,

Stainless Steel Ball and Stem





2-year warranty



#### **Technical data**

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Valve Size	2" [50]
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	77
Maximum Inlet Pressure (Steam)	150 psi
Valve body	WCC grade carbon steel

#### Materials

**Suitable actuators** 

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

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.

 $Water/Steam\ control\ in\ heating\ system.$ 

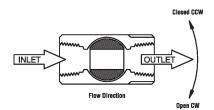
300:1 rangeability.

Electronic fail-safe

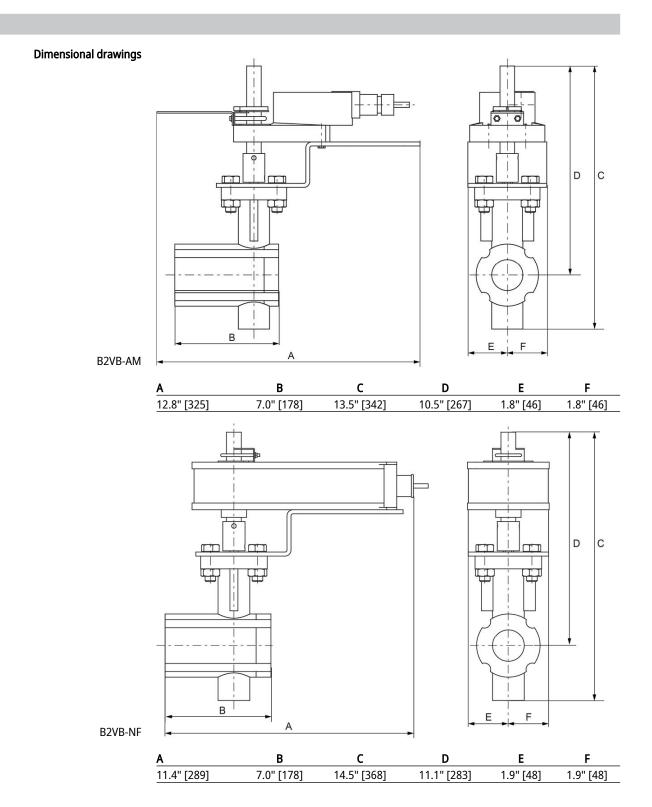
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).



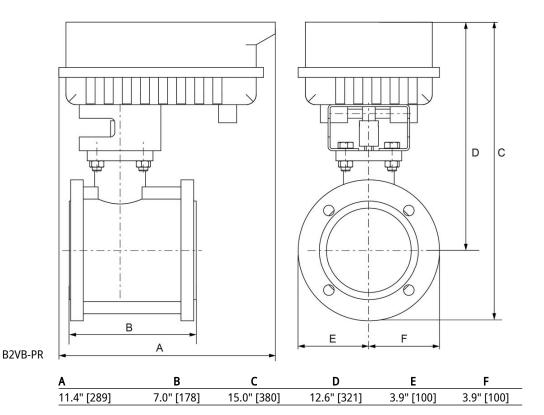
### Flow/Mounting details



## **Dimensions**













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Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	5 W		
	Power consumption in rest position	2.5 W		
	Power consumption for wire sizing	7.5 VA		
	Transformer sizing	7.5 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	95°,		
	Running Time (Motor)	75 s		
	Running time fail-safe	<20 s		
	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 Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC an Section 602 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		
		-		

### **Electrical installation**



Weight

Materials

Servicing

Weight

Housing material

# 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

maintenance-free

Galvanized steel and plastic housing

4.5 lb [2.1 kg]



Technical data sheet AFB24-X1

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.

1 Provide 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.

As Parallel wiring required for piggy-back applications.

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

## Wiring diagrams

On/Off

