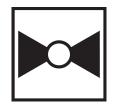
Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem





2-year warranty



Technical data

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	ncti	Λn	21	data

Valve Size	3" [80]
Fluid	chilled or hot water, up to 60% glycol, steam
Fluid Temp Range (water)	-22380°F [-30193°C]
Fluid Temp Range (steam)	-22365°F [-30185°C]
Body Pressure Rating	ANSI Class 150
Close-off pressure ∆ps	250 psi
Flow characteristic	equal percentage
Servicing	repack/rebuild kits available
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	207
Maximum Inlet Pressure (Steam)	150 psi

Materials Valve body

valve body	wcc grade carbon steer	
Body finish	matt black body finish	
Stem	stainless steel	
Stem seal	PTFE V-ring	
Seat	PTFE	
Pipe connection	125/150 lb flanged, ASME/ANSI b16.1/b16.5	
Ball	stainless steel	
Non-Spring	SY1	
	AMB(X)	
	PRB(X)	
Spring	AF	
Electronic fail-safe	GKB(X)	

WCC grade carbon steel

Product features

Product features

Suitable actuators

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

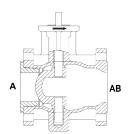
PKRB(X)

Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

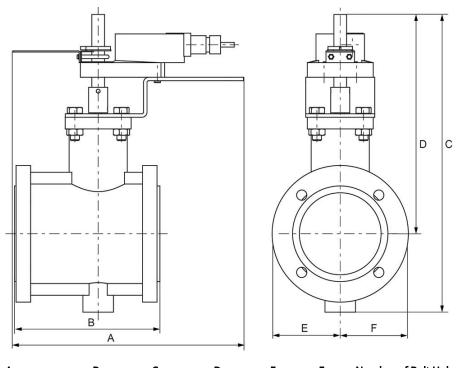


Flow/Mounting details

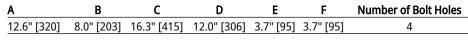


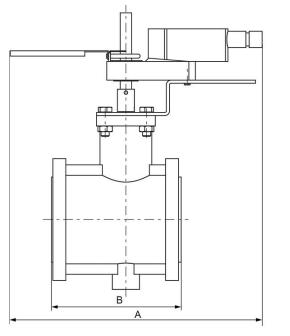
Dimensions

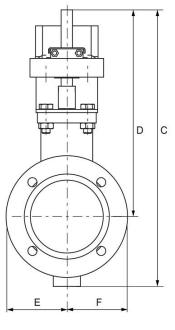
Dimensional drawings



B6VB-AM



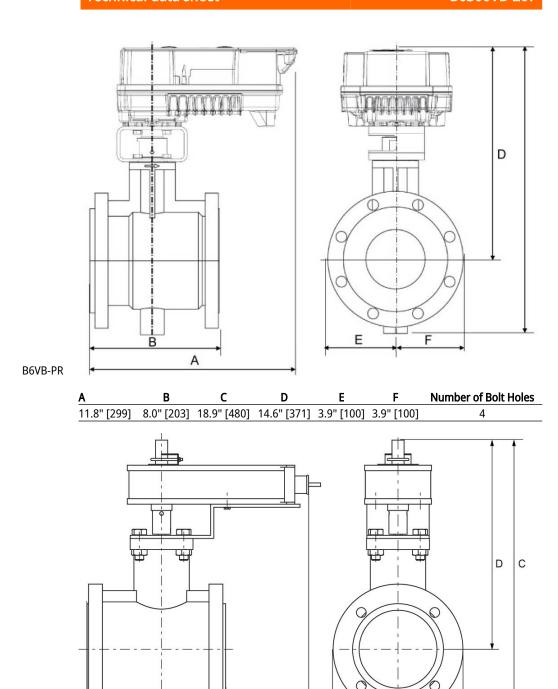




B6VB-GK

Α	В	С	D	E	F	Number of Bolt Holes
13.1" [332]	8.0" [203]	17.0" [433]	12.7" [323]	3.7" [95]	3.7" [95]	4





B6VB-AF

Α	В	С	D	E	F	Number of Bolt Holes
12.7" [323]	8.0" [203]	16.4" [416]	12.0" [306]	3.7" [95]	3.7" [95]	4

Ε

Α











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Technical data			
Electrical data	Nominal voltage	AC 24240 V / DC 24125 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	7 W	
	Power consumption in rest position	3.5 W	
	Power consumption for wire sizing	18 VA	
	Transformer sizing	7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V	
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°	
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],	
	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 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	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	Max. 95% RH, non-condensing	
	Servicing	maintenance-free	
Weight	Weight	4.6 lb [2.1 kg]	

Materials

Housing material

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.



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



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. Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches.



Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



A Provide overload protection and disconnect as required. Actuators may also be powered by DC 24 V.



Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.



Actuators may be powered in parallel. Power consumption must be observed.

A Parallel wiring required for piggy-back applications.

Wiring diagrams On/Off

