

B6400VB-350 Technical Data Sheet

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



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 re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Product Features

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

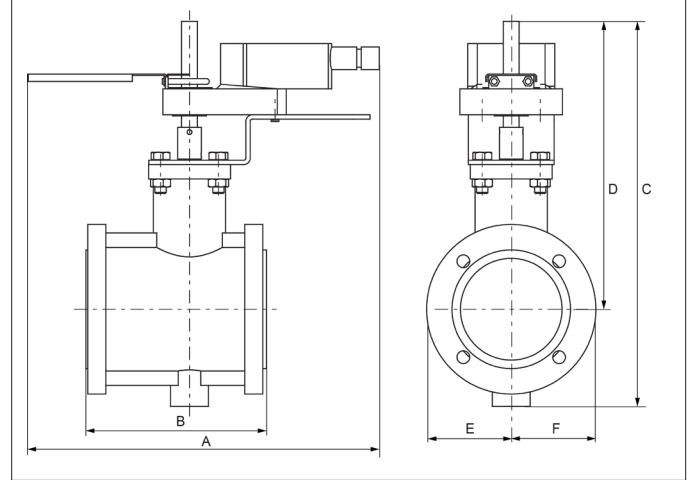
Suitable Actuators

	Non-Spring	Spring	Electronic fail-safe
B6400VB-350	GMB(X), PRB(X)	EFB(X)	PKRB(X)

Technical Data

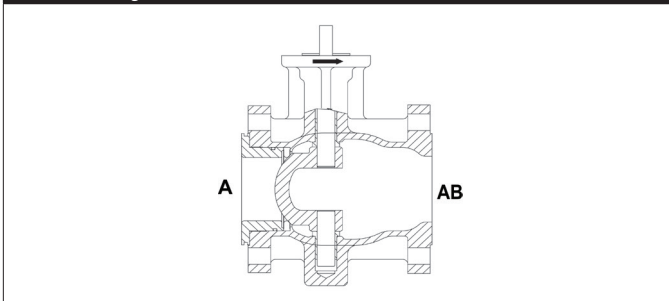
Fluid	chilled or hot water, up to 60% glycol, steam
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	4" [100]
Pipe connection	125/150 lb flanged, ASME/ANSI b16.1/ b16.5
Housing	WCC grade carbon steel
Ball	stainless steel
Stem	stainless steel
Stem seal	PTFE V-ring
Seat	PTFE
Body Pressure Rating	ANSI Class 150
ANSI Class	150
Number of Bolt Holes	8
Maximum Inlet Pressure (Steam)	200 psi
Max Differential Pressure (Steam)	100 psi
Maximum differential pressure (water)	150 psi
Close-off pressure Δps	150 psi
Close-Off Pressure (Steam)	200 psi
Rangeability Sv	300:1
Cv	350
Weight	57.32 lb [26 kg]
Fluid Temp Range (water)	-22...380°F [-30...193°C]
Fluid Temp Range (steam)	-22...380°F [-30...193°C]
Leakage rate	ANSI Class IV
Servicing	repack/rebuild kits available

Dimensions (Inches [mm])

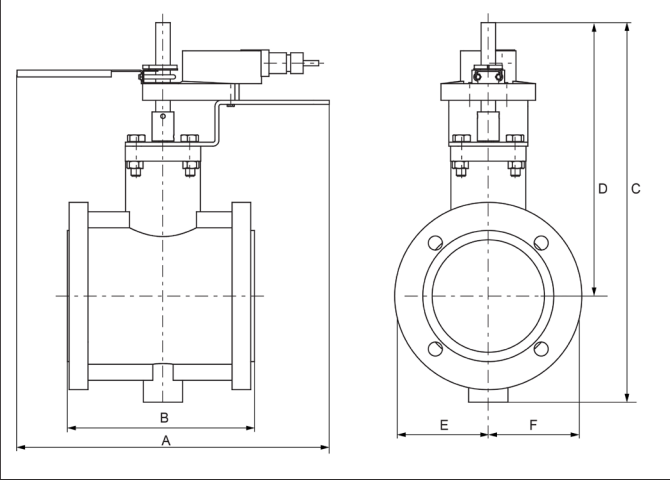


A	B	C	D	E	F
12.6" [320]	9.0" [229]	18.2" [463]	13.1" [334]	4.5" [114]	

Flow/Mounting Details

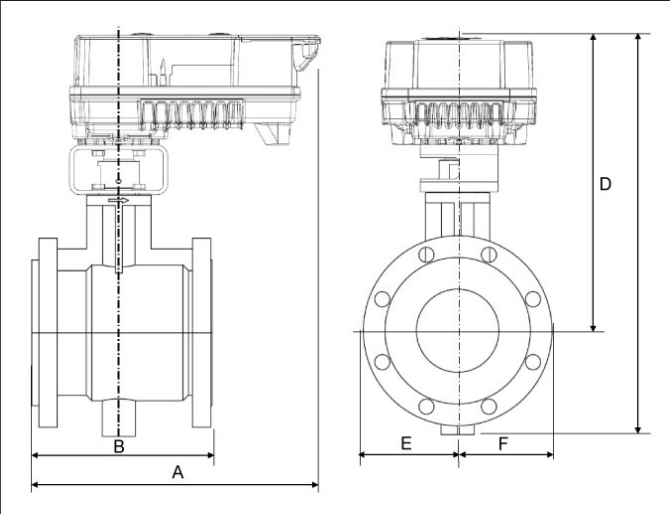


Dimensions (Inches [mm])



A	B	C	D	E	F
12.6" [320]	9.0" [229]	18.2" [463]	13.1" [334]	4.5" [114]	

Dimensions (Inches [mm])



A	B	C	D	E	F
12.2" [310]	9.0" [229]	18.2" [463]	13.1" [334]	3.9" [100]	

GKB24-3-X1 Technical Data Sheet

On/Off, Floating Point, Electronic Fail-Safe, 24 V



5-year warranty



Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz
Power consumption in operation	12 W
Power consumption in rest position	3 W
Transformer sizing	21 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 throughout 0...95° rotation
Input Impedance	100 kΩ
Angle of rotation	Max. 95°, adjustable with mechanical stop
Direction of motion motor	selectable with switch 0/1
Direction of motion fail-safe	reversible with switch
Position indication	Mechanically, 30...65 mm stroke
Manual override	external push button
Running Time (Motor)	150 s constant, independent of load
Running time fail-safe	<35 s
Bridging time	2 s delay before fail-safe activates
Pre-charging time	5...20 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22...122°F [-30...50°C]
Storage temperature	-40...176°F [-40...80°C]
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2
Housing material	UL94-5VA
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
Noise level, motor	52 dB(A)
Noise level, fail-safe	61 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
Weight	4.0 lb [1.8 kg]

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Date created, 04/03/2020 - Subject to change. © Belimo Aircontrols (USA), Inc.

Wiring Diagrams

INSTALLATION NOTES

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

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.

