

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





Type overview			
<b>Туре</b>			DN
6400VB-350			100
echnical data			
	Functional data	Valve size [mm]	4" [100]
		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 Δps	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	350
		Maximum Inlet Pressure (Steam)	150 psi
	Materials	Valve body	WCC grade carbon steel
		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
	Suitable actuators	Non-Spring	GMB(X) PRB(X)
		Spring	EFB(X)
		. •	• •

# **Product features**

**Product features** Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two-

PKRB(X) GKB(X)

piece body construction

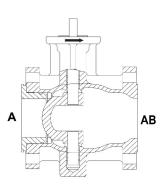
Electrical fail-safe



### Application

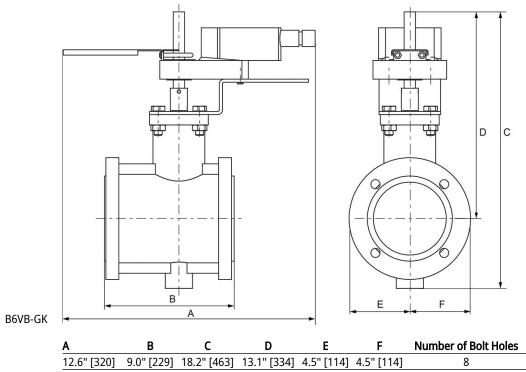
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

## Flow/Mounting details



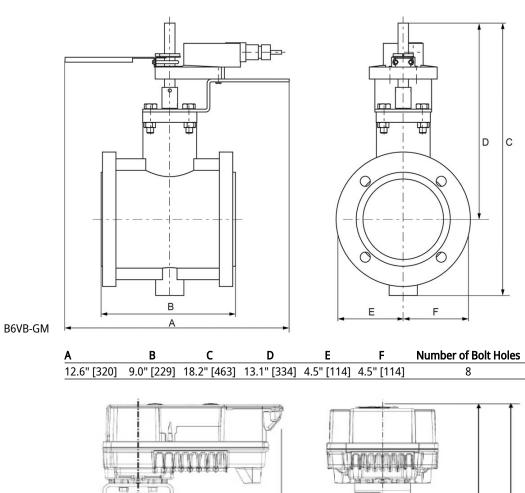
Dimensions				
Type	DN	Weight		

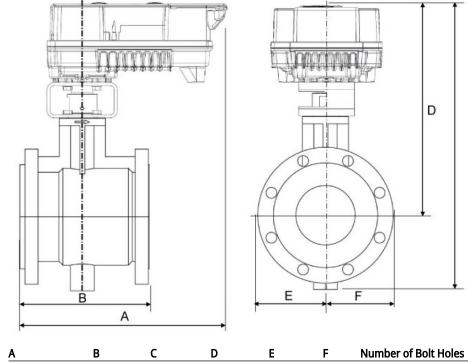
B6400VB-350 100 57.32 lb [26 kg]



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B6VB-PR

Α	В	C	D	E	F	<b>Number of Bolt Holes</b>
12.2" [310]	9.0" [229]	18.2" [463]	13.1" [334]	4.5" [114]	4.5" [114]	8







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Electrical data	Nominal voltage	AC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	11 W		
	Power consumption in rest position	3 W		
	Power consumption for wire sizing	21 VA		
	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 095° rotation		
Functional data	Bridging time (PF)	2 s		
	Pre-charging time	520 s		
	Direction of motion motor	selectable with switch 0/1		
	Direction of motion fail-safe	reversible with switch		
	Manual override	external push button		
	Angle of rotation	Max. 95°		
	Angle of rotation note	adjustable with mechanical stop		
	Running Time (Motor)	150 s / 90°		
	Running time motor note	constant, independent of load		
	Running time fail-safe	<35 s		
	Noise level, motor	52 dB(A)		
	Noise level, fail-safe	61 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	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Ambient humidity	Max. 95% RH, non-condensing		
	Servicing	maintenance-free		
Materials	Housing material	Galvanized steel and plastic housing		

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



#### **Electrical installation**

## **X** 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.

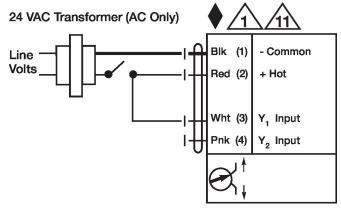
Meets cULus requirements without the need of an electrical ground connection.

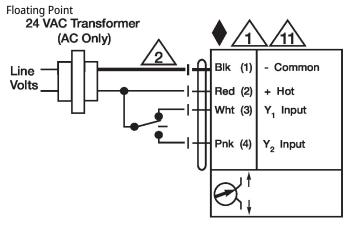
### Warning! Live electrical components!

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.

## Wiring diagrams

On/Off





### **Installation notes**

Negative torque SY2~3 Replacement Handwheel