

2-way, Characterized Control Valve, Stainless Steel Ball and Stem





Type overview	
Туре	DN
B6600S-400-250	150

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Functional data	Valve size [mm]	6" [150]
	Fluid	chilled or hot water, up to

Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	0250°F [-18120°C]	
Body Pressure Rating	ANSI Class 250, raised-face	
Close-off pressure Δps	310 psi	
Flow characteristic	equal percentage	
Pipe connection type	Flange	
	for use with ASME/ANSI class 250	
Servicing	maintenance-free	
Maximum differential pressure (water)	50 psi [345 kPa]	
Flow Pattern	2-way	
Leakage rate	0% for A – AB	
Controllable flow range	75°	
Cv	400	
Valve body	Cast iron - GG 25	

Materials

Suitable actuators

Cv	400	
Valve body	Cast iron - GG 25	
Stem	stainless steel	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	GRB(X)	
Electrical fail-safe	GKRB(X)	

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 WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

Product features

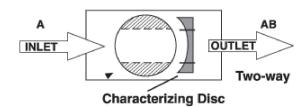
Safety notes

Application

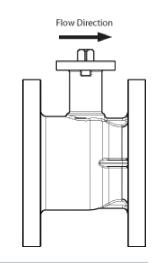
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



Flow/Mounting details



Upstream A Downstream AB



Number of

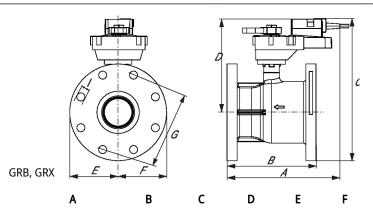
Bolt Holes

Number of Bolt Holes

12

Dimensions

Туре	DN	Weight	
B6600S-400-250	150	130 lb [59 ka]	



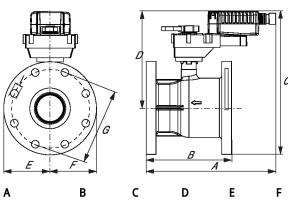
15.3" [388]12.4" [315]15.4" [391]9.5" [241]6.3" [160]6.3" [160]10.6" [270]0.9" [22]

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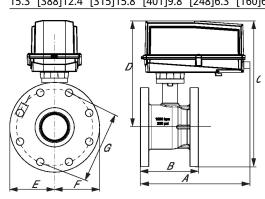
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15.3" [388]12.4" [315]15.8" [401]9.8" [248]6.3" [160]6.3" [160]10.6" [270]0.9" [22]



GRX, GKRX

GKRB, GKRX



Technical data sheet B6600S-400-250 В C Ε F G Ι Number of **Bolt Holes** 19.0" [483]12.4" [315]18.5" [470]9.5" [241]6.3" [160]6.3" [160]10.6" [270]0.9" [22] 12

GRX, GKRX

Α

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On/Off, Floating point, Non fail-safe, 24 V





5-year warranty





chnical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	4 W
	Power consumption in rest position	2 W
	Transformer sizing	11 VA
	Electrical Connection	Terminal blocks
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	under cover
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	Mechanical, 3065 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Housing	UL Enclosure Type 4X
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C [104122°F] for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free

Weight Weight

4.5 lb [2.1 kg]



Materials Housing material Die cast aluminium and plastic casing

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

Accessories

Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A
	Feedback potentiometer 140 Ω add-on, grey	P140A GR
	Feedback potentiometer 1 $k\Omega$ add-on, grey	P1000A GR
	Feedback potentiometer 10 kΩ add-on, grey	P10000A GR
	Feedback potentiometer 2.8 k Ω add-on, grey	P2800A GR
	Feedback potentiometer 500 Ω add-on, grey	P500A GR
	Feedback potentiometer 5 k Ω add-on, grey	P5000A GR
Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	ACT_PACK_H

Electrical installation

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 also be powered by DC 24 V.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

Actuators are provided with a numbered screw terminal strip instead of a cable.

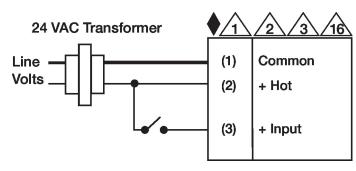
Meets cULus requirements without the need of an electrical ground connection.

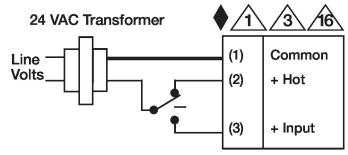
Warning! Live electrical components!

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 Floating Point







Electrical installation

Wiring diagrams

Floating Point - Triac Source

24 VAC Transformer

Line Volts

Hot Com

Red (2) + Hot

Wht (3) Y Input

Floating Point - Triac Sink

