



5-year warranty

Type overview

Type	DN
B6250S-110-250	65

Technical data

Functional data	Valve size [mm]	2.5" [65]
Fluid		chilled or hot water, up to 60% glycol
Fluid Temp Range (water)		0...250°F [-18...120°C]
Body Pressure Rating		ANSI Class 250, raised-face
Close-off pressure Δp_s		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		110
Materials	Valve body	Cast iron - GG 25
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	stainless steel
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non-Spring	ARB(X)
	Spring	AFRB(X)

Safety notes

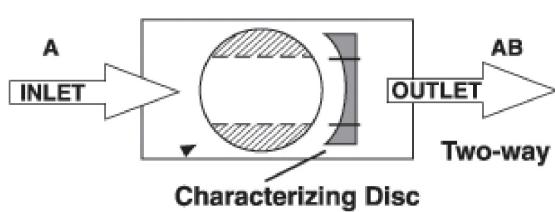


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

Product features

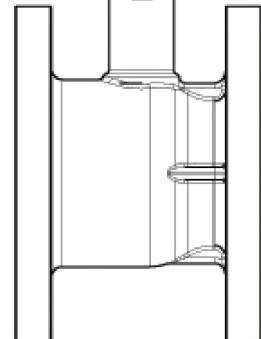
Application	This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.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



Upstream A
Downstream AB

Flow Direction



Dimensions

Type

B6250S-110-250

DN

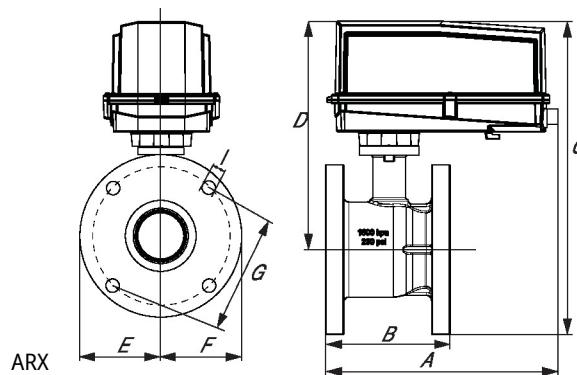
65

Weight

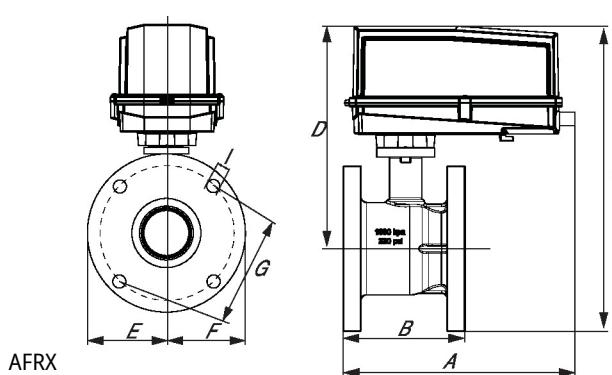
29 lb [13 kg]

ARB, ARX	Dimensions							Number of Bolt Holes
	A	B	C	D	E	F	G	
	8.3" [211]	5.8" [148]	11.6" [294]	7.8" [198]	3.7" [95]	3.7" [95]	5.9" [149]	0.9" [22] 8

AFRB, AFRX	Dimensions							Number of Bolt Holes
	A	B	C	D	E	F	G	
	8.3" [211]	5.8" [148]	12.2" [309]	9.4" [239]	3.7" [95]	3.7" [95]	5.9" [149]	0.9" [22] 8



A	B	C	D	E	F	G	I	Number of Bolt Holes
13.0" [330]	5.8" [148]	15.0" [380]	7.8" [198]	3.7" [95]	3.7" [95]	5.9" [149]	0.9" [22]	8



A	B	C	D	E	F	G	I	Number of Bolt Holes
14.5" [368]	5.8" [148]	16.6" [422]	11.9" [302]	3.7" [95]	3.7" [95]	5.9" [149]	0.9" [22]	8

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



5-year warranty



Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V / DC 21.6...28.8 V
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Transformer sizing	5.5 VA
	Electrical Connection	Terminal blocks
	Overload Protection	electronic throughout 0...90° 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)	90 s / 90°
	Running time motor variable	90 or 150 s
	Noise level, motor	45 dB(A)
	Position indication	pointer
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	-22...122°F [-30...50°C]
	Ambient temperature note	-40...50°C [104...122°F] for actuator with integrated heating
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	2.0 lb [0.91 kg]

Materials	Housing material	Die cast aluminium and plastic casing
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Footnotes [†]Rated Impulse Voltage 800V, Type of action 1, Control Pollution Degree 4.

Accessories

Factory add-on option only	Description	Type
	Heater, with adjustable thermostat	ACT_PACK_H

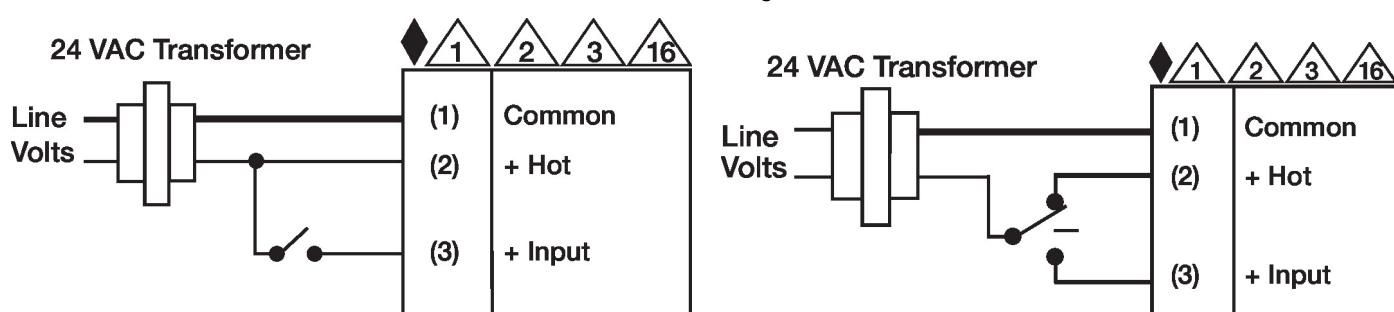
Electrical installation

☒ 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

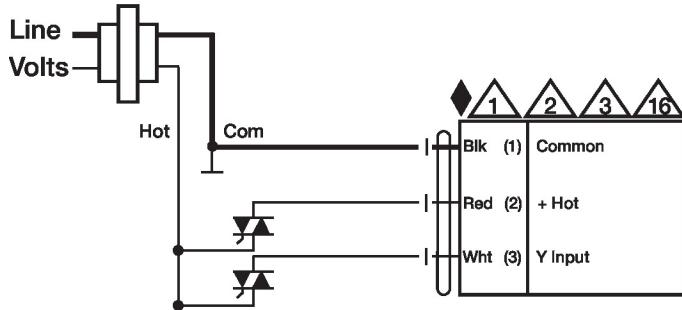


Electrical installation

Wiring diagrams

Floating Point - Triac Source

24 VAC Transformer



Floating Point - Triac Sink

24 VAC Transformer

