



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 $\Delta p_s$		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

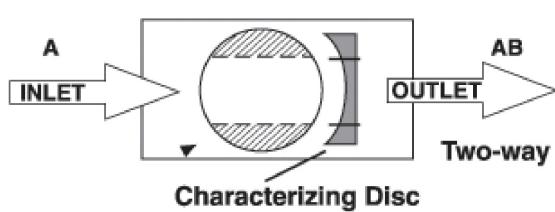


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## Product features

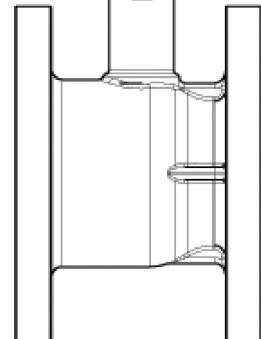
Application	This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.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

## Flow/Mounting details



Upstream A  
Downstream AB

Flow Direction



## Dimensions

## Type

B6250S-110-250

## DN

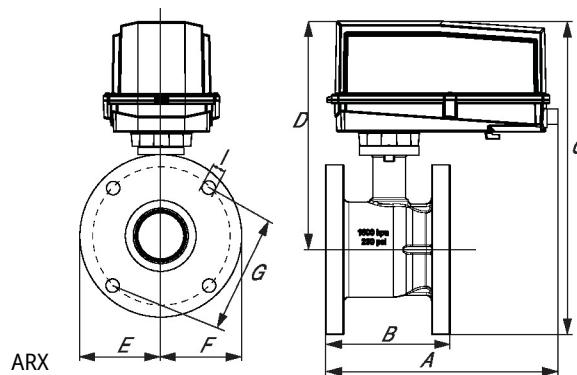
65

## Weight

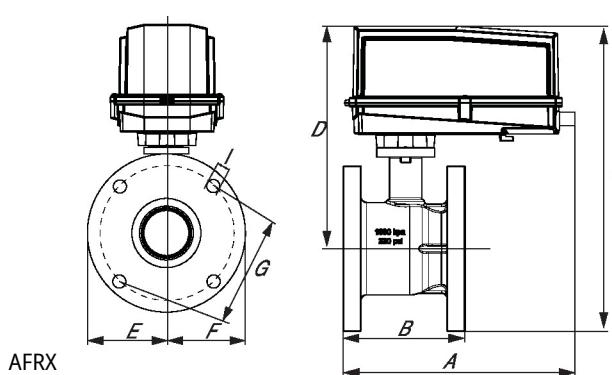
29 lb [13 kg]

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, Spring return, 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	5 W
	Power consumption in rest position	2.5 W
	Transformer sizing	7.5 VA
	Electrical Connection	18 AWG appliance cable, 1 m, with 1/2" NPT conduit connector
	Overload Protection	electronic throughout 0...95° 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	90°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<20 s
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66
	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	6.6 lb [3.0 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

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

## Electrical installation

## INSTALLATION NOTES

- A** Actuators with appliance cables are numbered.
- 1** Provide overload protection and disconnect as required.
- 3** Actuators may also be powered by DC 24 V.
- 45** Actuators may be powered in parallel. Power consumption must be observed.
- 48** Parallel wiring required for piggy-back applications.
- ◆** 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

