



5-year warranty

## Type overview

Type	DN
B6250S-070	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 125, standard class B
	Close-off pressure $\Delta p_s$	175 psi
	Flow characteristic	equal percentage
	Pipe connection type	Flange for use with ASME/ANSI class 125
	Servicing	maintenance-free
	Flow Pattern	2-way
	Leakage rate	0% for A – AB
	Controllable flow range	75°
	Cv	70
	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

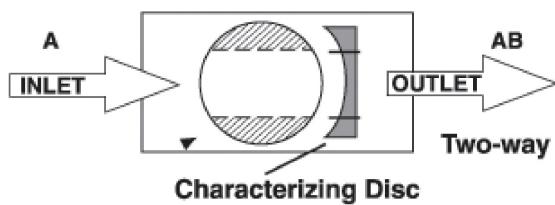


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## Product features

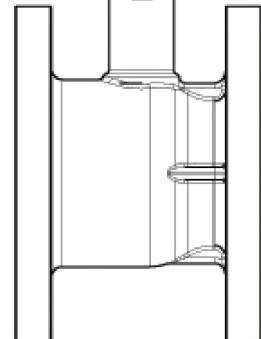
Application	This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

## Flow/Mounting details



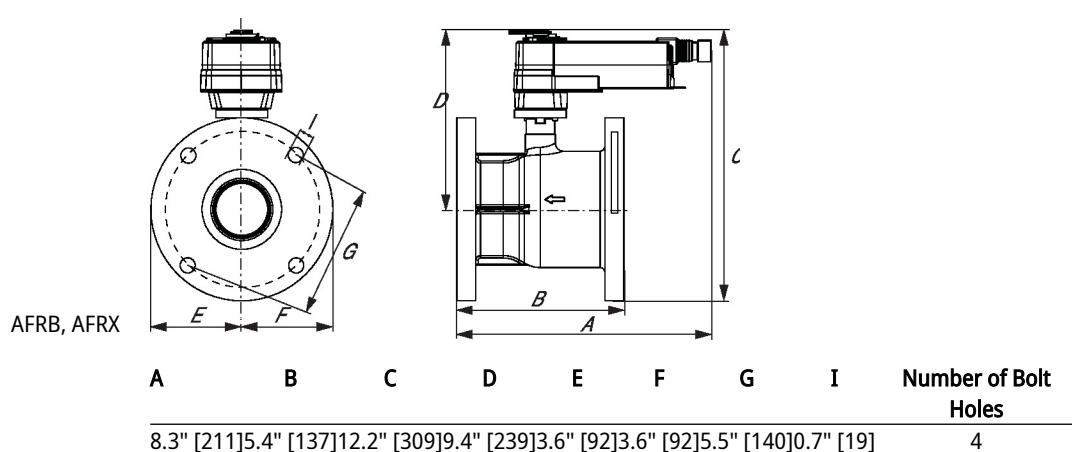
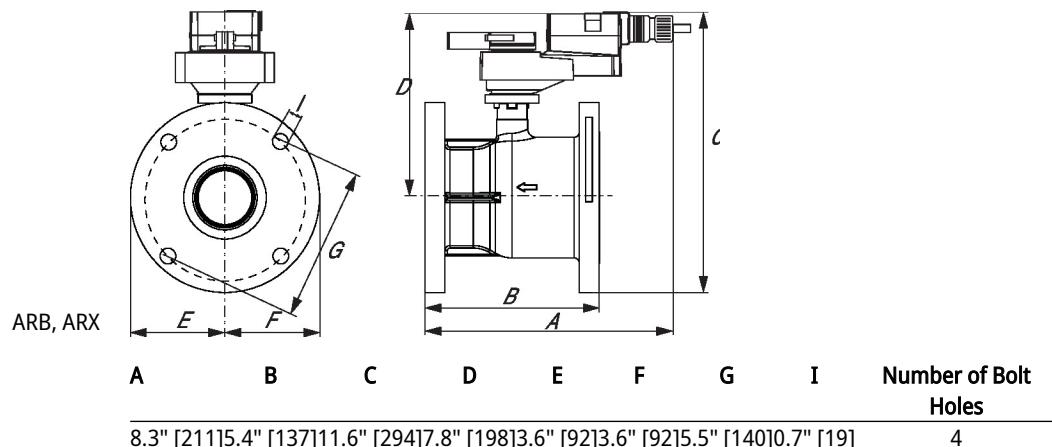
Upstream A  
Downstream AB

Flow Direction



## Dimensions

Type	DN	Weight
B6250S-070	65	25 lb [11 kg]



ARX	A	B	C	D	E	F	G	I	Number of Bolt Holes
									4
AFRX	A	B	C	D	E	F	G	I	Number of Bolt Holes
									4

On/Off, Spring return, 24...240 V



5-year warranty



## Technical data

Electrical data	
Nominal voltage	AC 24...240 V / DC 24...125 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 19.2...264 V / DC 21.6...137.5 V
Power consumption in operation	7 W
Power consumption in rest position	3.5 W
Auxiliary switch	2x SPDT, 1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V, 1x 10% / 1x 11...90%
Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V
Electrical Connection	(2) 18 AWG appliance cables, 1 m, with 1/2" NPT conduit connectors
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]

<b>Safety data</b>	Servicing	maintenance-free
<b>Weight</b>	Weight	10 lb [4.5 kg]
<b>Materials</b>	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
	Heater, with adjustable thermostat	ACT_PACK_Y

## Electrical installation

## INSTALLATION NOTES

- A** Actuators with appliance cables are numbered.
- UP** Universal Power Supply (UP) models can be supplied with AC 24...240 V, or DC 24...125 V.
- ⚠** Provide overload protection and disconnect as required.
- 4** Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.
- 45** Actuators may be powered in parallel. Power consumption must be observed.
- 48** Parallel wiring required for piggy-back applications.
- ⚠** Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.
- ◆** Meets cULus requirements without the need of an electrical ground connection.

## Wiring diagrams

On/Off

## Auxiliary Switches

