





Type overview	
Туре	DN
B6300S-110	80

Technical data

Functional	data	Valve size
ı uncuonai	uata	valve size

3" [80]	
chilled or hot water, up to 60% glycol	
0250°F [-18120°C]	
ANSI Class 125, standard class B	
175 psi	
equal percentage	
maintenance-free	
2-way	
0% for A – AB	
75°	
110	
A-port: as stated in chart B-port: 70% of A – AB Cv	
Cast iron - GG 25	
stainless steel	
EPDM (lubricated)	
PTFE	

Materials

Valve body	Cast iron - GG 25	
Stem	stainless steel	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
Characterized disc	stainless steel	
Pipe connection	pattern to mate with ANSI 125 flange	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	ARB(X)	
Spring	AFRB(X)	



• 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

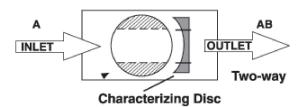
Application

Suitable actuators

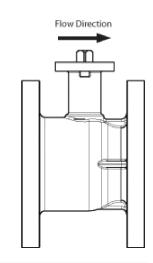
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



Flow/Mounting details

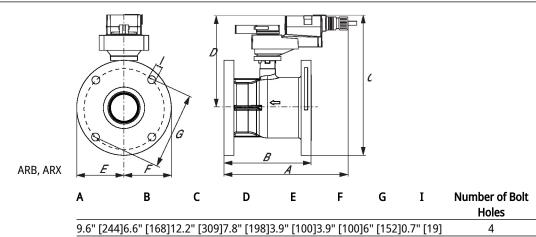


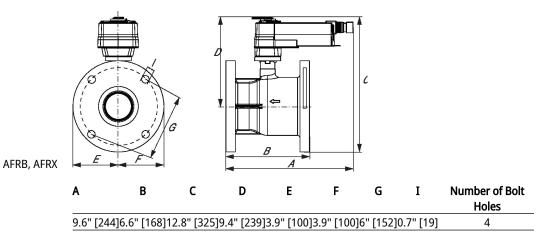
Upstream A Downstream AB



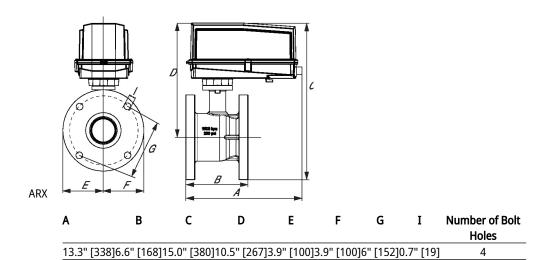
Dimensions

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AFRX

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

16.0" [406]6.6" [168]16.6" [422]11.9" [302]3.9" [100]3.9" [100]6" [152]0.7" [19] 4

www.belimo.com







Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Transformer sizing	7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V / heater 25 VA @ AC 120 V
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic throughout 095° 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	Degree of protection IEC/EN	IP66
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	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 temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 100% RH
	Servicing	maintenance-free
Materials	Housing material	Die cast aluminium and plastic casing

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

Electrical installation



X INSTALLATION NOTES

Actuators with appliance cables are numbered.



(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.

Provide overload protection and disconnect as required.

Actuators may be powered in parallel. Power consumption must be observed.

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 24 to 240 VAC Line Wht N Volts Blk L Wht (1) Blk (2) Neutral Load

Dimensions