

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









Type overview	
Туре	DN
B265	65

Technical data

Functional data

2.5" [65]
chilled or hot water, up to 60% glycol
0212°F [-18100°C]
400 psi
100 psi
equal percentage
Internal thread
NPT (female)
maintenance-free
2-way
0% for A – AB
75°
210
Nickel-plated brass body
stainless steel
EPDM (lubricated)

Materials

Valve body	Nickel-plated brass body
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
Characterized disc	No Disc (full flow)
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	ARB(X)

Suitable actuators

Non-Spring	ARB(X)
Spring	ΔERR(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

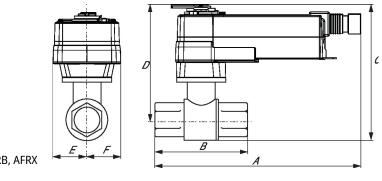
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



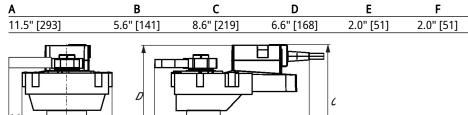
Flow/Mounting details

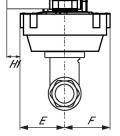
Two-way valves should be installed with the

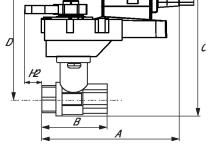
,	disc upstream.	$A\toAB$	0%		A → AB 100%	1		
Dimensions								
Туре	DN				Weight			
B265	65				8.1 lb [3.7 kg]			
	ARB, ARX		D H2			C		
	Α		В	С	D	E	F	H1
	10.1'	' [257] !	5.6" [141]	8.0" [203]	6.0" [152]	2.8" [71]	2.8" [71]	1.9" [48]
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AFRB, AFRX



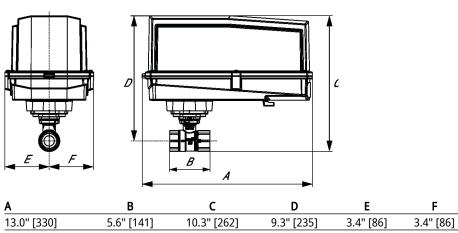




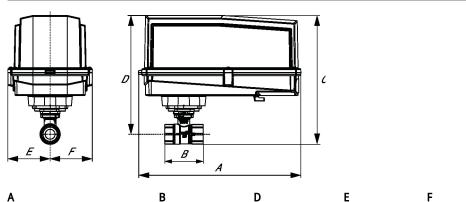
ARQB, ARQX

Α	В	С	D	E	F	H1	H2
9.9" [251]	4.2" [107]	8.1" [206]	6.1" [155]	2.3" [58]	2.3" [58]	0.8" [20]	0.6" [15]





AFRB N4, AFRX N4



ARB N4, ARX N4, NRB N4, NRX N4

Α	В	D	E	F
11.4" [289]	5.6" [141]	8.0" [203]	3.1" [80]	3.1" [80]



Technical data sheet









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Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2264 V / DC 21.6137.5 V
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Auxiliary switch	2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V, one set at 10°, one adjustable 1090°
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
	Electrical Connection	(2) 18 GA appliance cables, 1 m, with 1/2" NPT conduit connectors
	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	Power source UL	Class 2 Supply
	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 humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	10 lb [4.5 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		Туре	
	Heater, with adjustable thermostat	ACT_PACK_H	
	Heater, with adjustable thermostat	ACT_PACK_Y	

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.

A Provide overload protection and disconnect as required.

Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

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

A 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.

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

