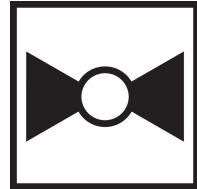




5-year warranty



Type overview

Type	DN
B265	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...212°F [-18...100°C]	
Body Pressure Rating	400 psi	
Close-off pressure Δ ps	100 psi	
Flow characteristic	equal percentage	
Pipe connection type	Internal thread NPT (female)	
Servicing	maintenance-free	
Flow Pattern	2-way	
Leakage rate	0% for A – AB	
Controllable flow range	75°	
Cv	210	
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	
Suitable actuators	Non-Spring	ARB(X)
Spring	AFRB(X)	

Safety notes

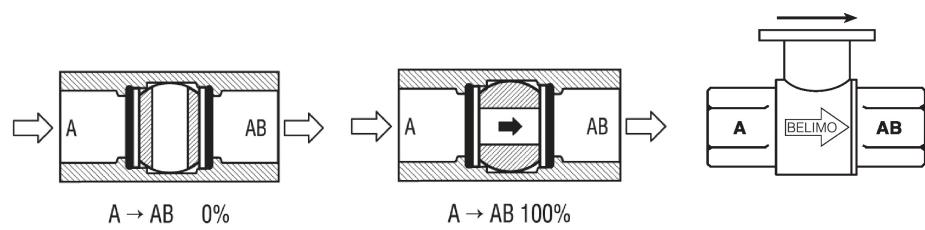


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

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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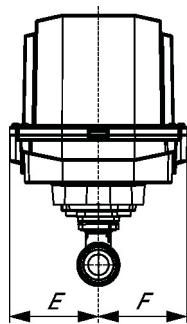
Flow/Mounting details



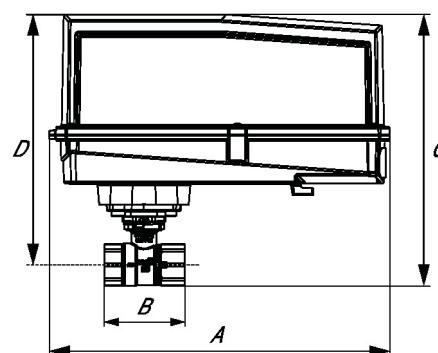
Dimensions

Type	DN	Weight
B265	65	8.1 lb [3.7 kg]

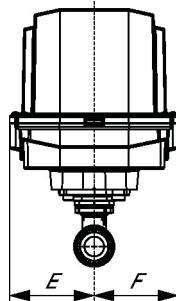
ARB, ARX		Dimensions						
		A 10.1" [257]	B 5.6" [141]	C 8.0" [203]	D 6.0" [152]	E 2.8" [71]	F 2.8" [71]	H1 1.9" [48]
AFRB, AFRX		Dimensions						
		A 11.5" [293]	B 5.6" [141]	C 8.6" [219]	D 6.6" [168]	E 2.0" [51]	F 2.0" [51]	
ARQB, ARQX		Dimensions						
		A 9.9" [251]	B 4.2" [107]	C 8.1" [206]	D 6.1" [155]	E 2.3" [58]	F 2.3" [58]	H1 0.8" [20]
								H2 0.6" [15]



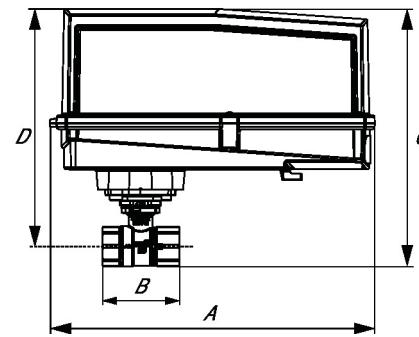
AFRB N4, AFRX N4



A	B	C	D	E	F
13.0" [330]	5.6" [141]	10.3" [262]	9.3" [235]	3.4" [86]	3.4" [86]

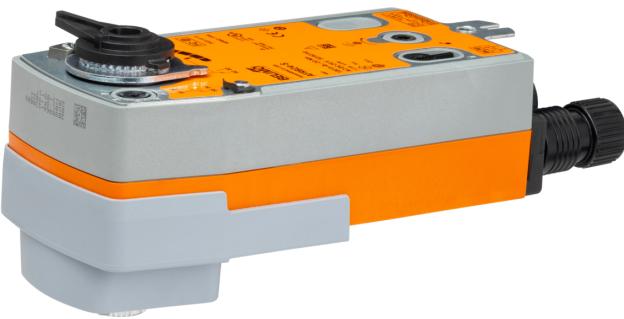


ARB N4, ARX N4, NRB N4, NRX N4



A	B	D	E	F
11.4" [289]	5.6" [141]	8.0" [203]	3.1" [80]	3.1" [80]

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	
Transformer sizing	18 VA	
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 GA appliance cables, 3 ft [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	IP54	
Degree of protection NEMA/UL	NEMA 2	
Enclosure	UL Enclosure Type 2	
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	
UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC	
Ambient humidity	Max. 95% RH, non-condensing	
Ambient temperature	-22...122°F [-30...50°C]	
Storage temperature	-40...176°F [-40...80°C]	
Servicing	maintenance-free	
Weight		
Weight	5.7 lb [2.6 kg]	

Technical data

Materials	Housing material	Galvanized steel and plastic housing
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Footnotes [†]Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Electrical installation

 **INSTALLATION NOTES**

-  Actuators with appliance cables are numbered.
-  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.
-  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.
-  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.
-  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.

Wiring diagrams

On/Off

