

## **Technical data sheet**









# Type overview

Туре	DN
B278	80

### **Technical data**

Functional data	Valve size [mm]	3" [80]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0212°F [-18100°C]
	Body Pressure Rating	400 psi
	Close-off pressure Δps	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	130
Materials	Valve body	Nickel-plated brass body
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	TEFZEL®
	O-ring	EPDM (lubricated)
	Ball	stainless steel
uitable 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

on 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.

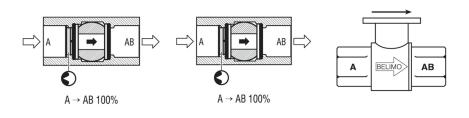


# **Technical data sheet**

# Flow/Mounting details

disc upstream.

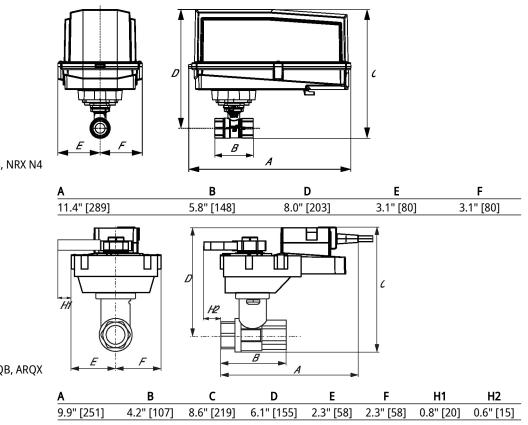
Two-way valves should be installed with the



# Dimensions

<b>Type</b> B278	<b>DN</b> 80	<b>Weight</b> 9.0 lb [4.1 kg]
	ARB, ARX	
		A B C D E F H1 H2   11.0" [280] 5.8" [148] 8.5" [217] 6.0" [152] 2.8" [71] 2.8" [71] 2.1" [53] 0.8" [20]
	AFRB, AFRX	
		A B C D E F   11.8" [299] 5.8" [148] 9.1" [231] 6.6" [168] 2.0" [51] 2.0" [51]
	AFRB N4, AFRX N4	
		A B C D E F   13.0" [330] 5.8" [148] 10.3" [262] 9.3" [235] 3.4" [86] 3.4" [86]





ARB N4, ARX N4, NRB N4, NRX N4

ARQB, ARQX



# On/Off, Floating point, Non fail-safe, 24 V





# **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Transformer sizing	5.5 VA
	Electrical Connection	Terminal blocks
	Overload Protection	electronic thoughout 090° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	90 s / 90°
	Running time motor variable	90 or 150 s
	Noise level, motor	45 dB(A)
	Position indication	Mechanical, pluggable
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
	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	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	1.9 lb [0.85 kg]
Materials	Housing material	Galvanized steel and plastic housing

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



