







#### **Technical data**

Functional data	Valve Size	2" [50]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0250°F [-18120°C]
	Body Pressure Rating	400 psi
	Close-off pressure ∆ps	200 psi
	Flow characteristic	A-port equal percentage, B-port modified for constant common port flow
	Servicing	maintenance-free
	Flow Pattern	3-way Mixing/Diverting
	Leakage rate	0% for A – AB, <2.0% for B – AB
	Controllable flow range	75°
	Cv	46
	Body pressure rating note	400 psi
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Materials	Valve body	Nickel-plated brass body
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Pipe connection	NPT female ends
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non-Spring	ARB(X)
ator		

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

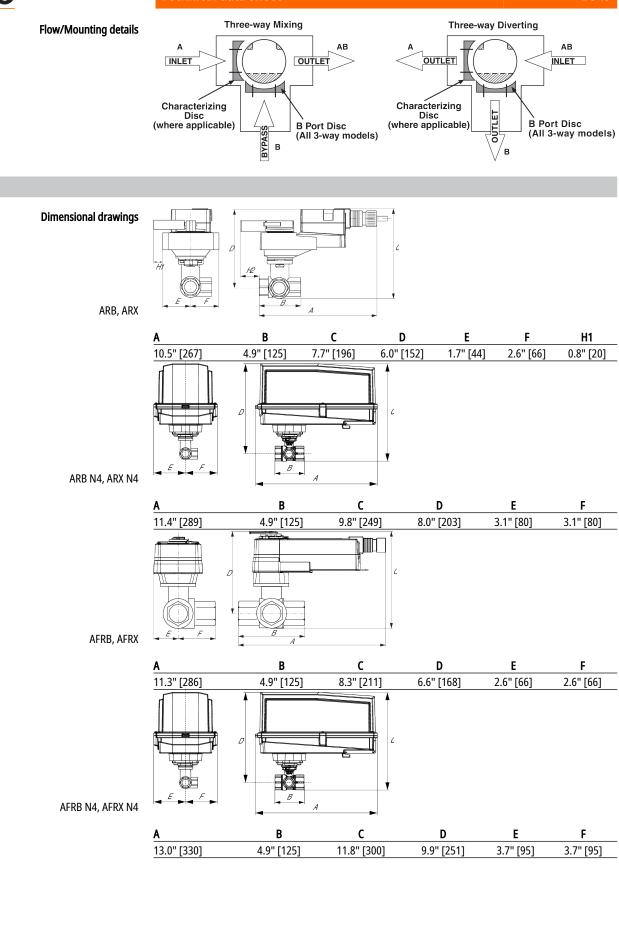
### **Product features**

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 re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



# **Technical data sheet**





**Technical data sheet** 

**ARB24-3** 





### **Technical data**

	AC/DC 24 V
Nominal voltage frequency	50/60 Hz
Power consumption in operation	2.5 W
Power consumption in rest position	0.5 W
Transformer sizing	5.5 VA (class 2 power source)
Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
Overload Protection	electronic thoughout 090° rotation
Input Impedance	600 Ω
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
Noise level, motor	45 dB(A)
Position indication	Mechanically, pluggable
Degree of protection IEC/EN	IP54
Degree of protection NEMA/UL	NEMA 2 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
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Ambient humidity	max. 95% r.H., non-condensing
Servicing	maintenance-free
Weight	2.2 lb [1.0 kg]
	Power consumption in rest position   Transformer sizing   Electrical Connection   Overload Protection   Input Impedance   Direction of motion motor   Manual override   Angle of rotation   Angle of rotation note   Running Time (Motor)   Noise level, motor   Position indication   Degree of protection IEC/EN   Degree of protection NEMA/UL   Agency Listing   Quality Standard   Ambient temperature   Storage temperature   Ambient humidity   Servicing

# Safety notes



- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets. •
- NEMA 4X, 304 stainless steel enclosure.
- MFT95 resistor kit for 4 to 20 mA control applications.

#### **Electrical installation**

## X INSTALLATION NOTES

Around the provide overload protection and disconnect as required. Actuators may also be powered by 24 VDC.



## **Technical data sheet**

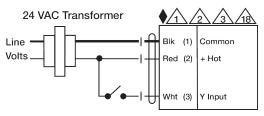
Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

 $\Delta h$  Actuators with plenum cable do not have numbers; use color codes instead.

Meets cULus requirements without the need of an electrical ground connection.

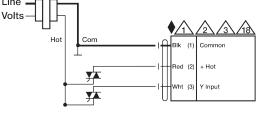
## Warning! Live Electrical Components!

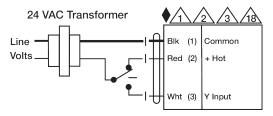
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



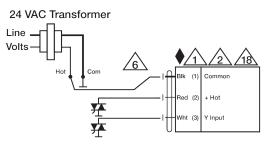
On/Off







**Floating Point** 



Floating Point - Triac Sink

Dimensions

#### **Dimensional drawings**

