

3-way Mixing/Diverting, Characterized Control Valve, Stainless Steel Ball and Stem







# Type overview

Туре	DN
B330	32

## **Technical data**

Functional data	Valve size [mm]	1.25" [32]	
	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 A-port: as stated in chart B-port: 70% of A – AB Cv	
	Flow		
	Flow characteristic	A-port equal percentage, B-port modified for constant common port flow	
	Leakage rate	0% for A – AB, <2.0% for B – AB	
	Pipe connection	Internal thread NPT (female)	
	Servicing	maintenance-free	
	Flow Pattern	3-way Mixing/Diverting	
	Controllable flow range	75°	
	Cv	19	
Materials	Valve body	Nickel-plated brass body	
	Stem	stainless steel	
	Stem seal	EPDM (lubricated)	
	Seat	PTFE	
	Characterized disc	Ryton PPS	
	O-ring	EPDM (lubricated)	
	Ball	stainless steel	
Suitable actuators	Non Fail-Safe	ARB(X) ARQB(X) ARB(X) N4	
	Spring	AFRB(X)	



### Safety notes

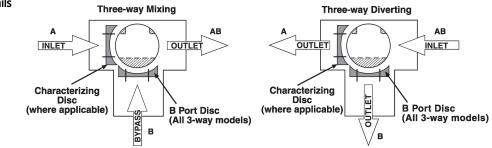


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

### **Product features**

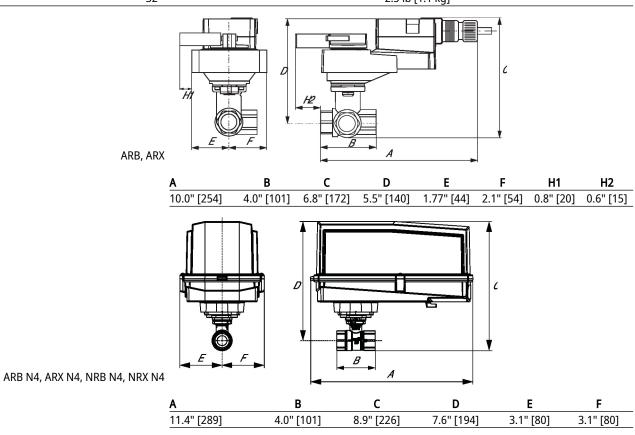
Application This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or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

#### Flow/Mounting details



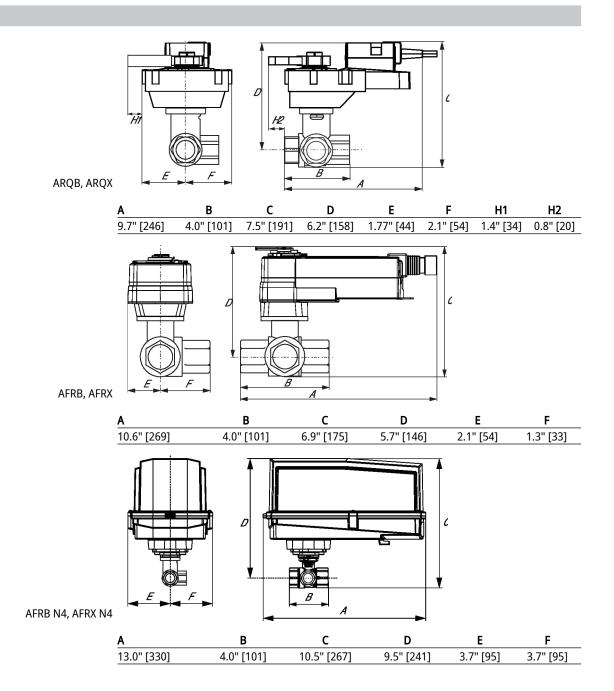
#### **Dimensions**

Туре	DN	Weight	
B330	32	2.5 lb [1.1 kg]	











**Technical data sheet** 

## ARX24-SR





## **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	0.4 W	
	Transformer sizing	5 VA	
	Electrical Connection	18 GA plenum cable with 1/2" NPT conduit connector, degree of protection NEMA 2 / IP54, 1 m 3 m and 5 m	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)	
	Input impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA	
	Position feedback U	210 V	
	Position feedback U note	Max. 1 mA	
	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	2.0 lb [0.90 kg]	
Materials	Housing material	Galvanized steel and plastic housing	



Foot	tnotes	†Rated Impulse Voltage 800 V, Type action 1, Control Pollution	Degree 3.
Accessories			
Electrical acces	sories	Description	Туре
		Battery backup system, for non-spring return models Battery, 12 V, 1.2 Ah (two required)	NSV24 US NSV-BAT
Electrical installation			
<ul> <li>INSTALLATION NOTES</li> <li>Provide overload protection and disconnect as required.</li> <li>Actuators may be connected in parallel. Power consumption and input impedance must be observed.</li> <li>Actuators may also be powered by DC 24 V.</li> <li>Only connect common to negative (-) leg of control circuits.</li> <li>A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V.</li> <li>Actuators with plenum cable do not have numbers; use color codes instead.</li> <li>Meets cULus requirements without the need of an electrical ground connection.</li> <li>Warning! Live electrical components!</li> <li>During installation, testing, servicing and troubleshooting of this product, it may be necessar to work with live electrical components. Have a qualified licensed electrician or other individu 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.</li> </ul>		l to 210 V. codes instead. round connection. this product, it may be necessary sed electrician or other individual ponents perform these tasks.	
Wiring diagrams			

