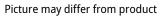
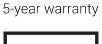


3-way Mixing/Diverting, Characterized Control Valve, Stainless Steel Ball and Stem











Туре		DN	
B329	1 1/4" [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	
	Flow	A-port: as stated in chart B-port: 70% of A – AE Cv	
	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	10	
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	
		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.

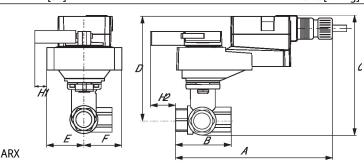
#### Flow/Mounting details

This valve is not suitable for use as a change over valve.

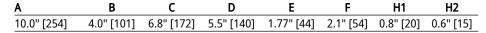


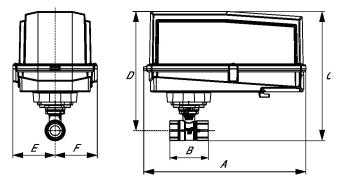
#### **Dimensions**



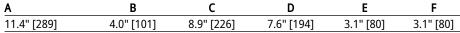


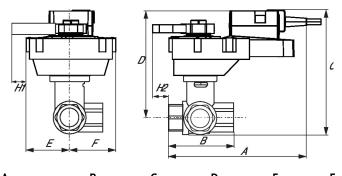
ARB, ARX





ARB N4, ARX N4, NRB N4, NRX N4



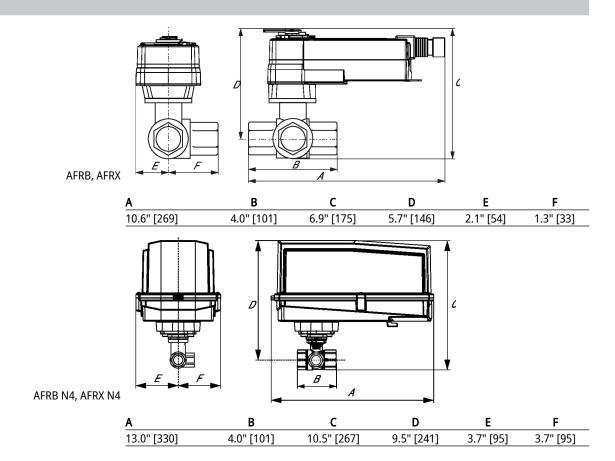


ARQB, ARQX

Α	В	C	U	E	- F	HI	H2
9.7" [246]	4.0" [101]	7.5" [191]	6.2" [158]	1.77" [44]	2.1" [54]	1.4" [34]	0.8" [20]



# **Dimensions**





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





5-year warranty





echnical 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 NEMA/UL	NEMA 2		
	Housing	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.

### **Electrical installation**

### **INSTALLATION NOTES**

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

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.

 $\frac{1}{160}$  Actuators are provided with a numbered screw terminal strip instead of a cable.

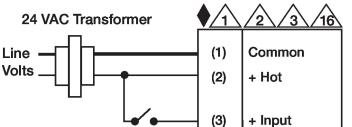
Meets cULus requirements without the need of an electrical ground connection.

### Warning! Live electrical components!

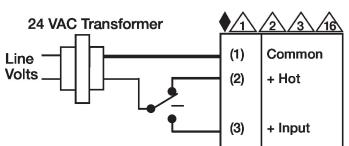
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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

#### Wiring diagrams

On/Off



Floating Point



Floating Point - Triac Source

24 VAC Transformer

Line Volts Hot Red (2) + Hot Wht (3) Y Input

Floating Point - Triac Sink

