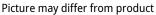


3-way Mixing/Diverting, Characterized Control Valve, Stainless Steel Ball and Stem









#### Type overview DN Type 1 1/2" [40] B338 **Technical data Functional data** Valve size [mm] 1.5" [40] Fluid chilled or hot water, up to 60% glycol 0...250°F [-18...120°C] Fluid Temp Range (water) **Body Pressure Rating** 400 psi Close-off pressure Δps 200 psi Flow A-port: as stated in chart B-port: 70% of A - AB 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 Internal thread NPT (female)		
	Pipe connection			
	Servicing	maintenance-free		
	Flow Pattern	3-way Mixing/Diverting		
	Controllable flow range	75°		
	Cv	19		
Materials	Valve body	Nickel-plated brass body		

Value hade	Nichal what allowers hade.		
Valve body	Nickel-plated brass body		
Stem	stainless steel		
Stem seal EPDM (lubricated)			
Seat PTFE			
Characterized disc	Stainless steel		
O-ring	EPDM (lubricated)		
Ball	stainless steel		
Non Fail-Safe	ARB(X)		

# 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.

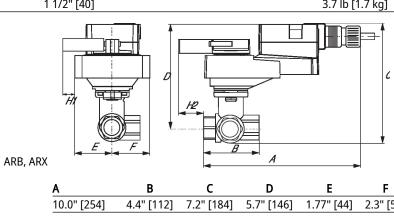
#### Flow/Mounting details

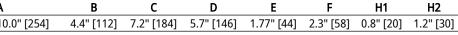
This valve is not suitable for use as a change over valve.

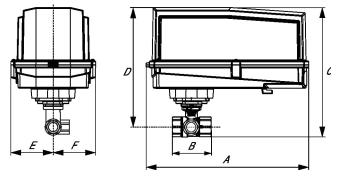


#### **Dimensions**

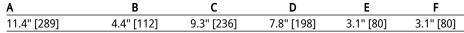


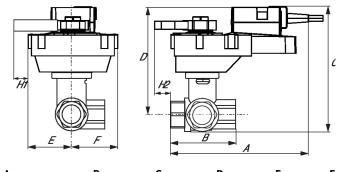






ARB N4, ARX N4



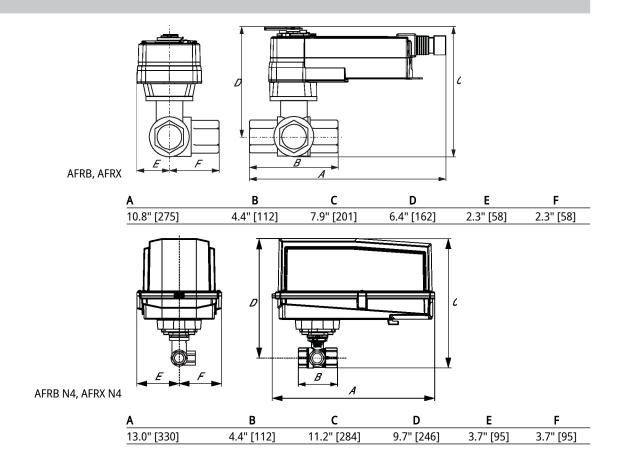


ARQB, ARQX

Α	В	C	D	E	F	H1	H2
9.9" [251]	4.4" [112]	7.8" [199]	6.3" [161]	2.3" [58]	2.3" [58]	0.8" [20]	0.8" [20]



### **Dimensions**





On/Off, Non fail-safe, 24 V





5-year warranty





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	15 W		
	Power consumption in rest position	1.5 W		
	Transformer sizing	23 VA		
	Electrical Connection	18 AWG plenum cable, 3 ft [1 m], with 1/2" NPT conduit connector (10 ft [3 m] and 16 ft [5 m] available)		
	Overload Protection	electronic throughout 095° 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)	10 s / 90°		
	Running time motor variable	10 or 15 s		
	Noise level, motor	52 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 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	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Servicing	maintenance-free		



 Weight
 3.1 lb [1.4 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

A 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 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.



### Wiring diagrams

On/Off

