

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		
	Flow	A-port: as stated in chart B-port: 70% of A – AB 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	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

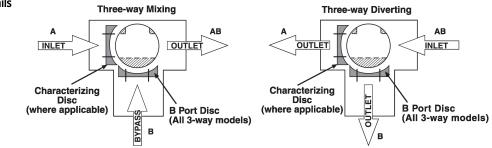


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

Product features

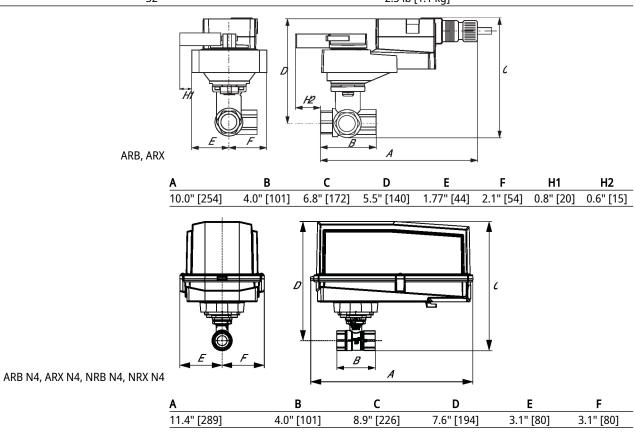
Application This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or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

Flow/Mounting details



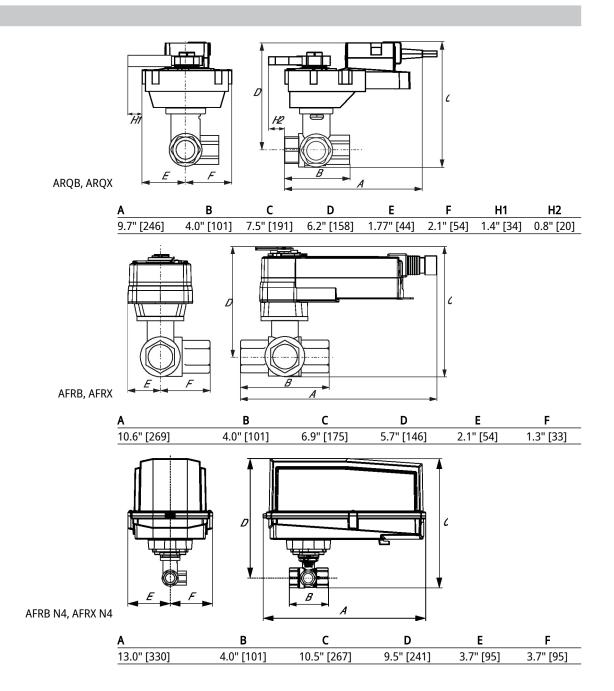
Dimensions

Туре	DN	Weight	
B330	32	2.5 lb [1.1 kg]	











Technical data sheet

ARB24-SR-T





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	Terminal blocks	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Input impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 m	
	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°	
	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	2.1 lb [0.97 kg]	
Materials	Housing material	Galvanized steel and plastic housing	

Footnotes TRated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree 2.



Ele	ectrical accessories	Description	Туре
		Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT	
Electrical installation			
		く INSTALLATION NOTES	
		Provide overload protection and disconnect as required.	
	/2	Actuators may be connected in parallel. Power consumption a observed.	nd input impedance must be
	ß	$\mathbf \lambda$ Actuators may also be powered by DC 24 V.	
	5		
		$_{ m A}$ A 500 Ω resistor (ZG-R01) converts the 420 mA control signal	
	16	Σ Actuators are provided with a numbered screw terminal strip i	nstead of a cable.
		Meets cULus requirements without the need of an electrical gr	round connection.
	\wedge	Warning! Live electrical components!	
		During installation, testing, servicing and troubleshooting of this product, it may be necessa to work with live electrical components. Have a qualified licensed electrician or other individ 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 210 V / 420 mA Contro	bl		
24 VAC Transfor	mer $\oint 1 / 2$	3 5 16	
		Common	

