





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	
	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	19	
Materials	Valve body	Nickel-plated brass body	
	Stem	stainless steel	
	Stem seal	EPDM (lubricated)	
	Seat	PTFE	
	Characterized disc	TEFZEL®	
	Pipe connection	NPT	
	O-ring	EPDM (lubricated)	
	Ball	stainless steel	
Suitable actuators	Non-Spring	ARB(X)	
	Spring	AF	

Safety notes

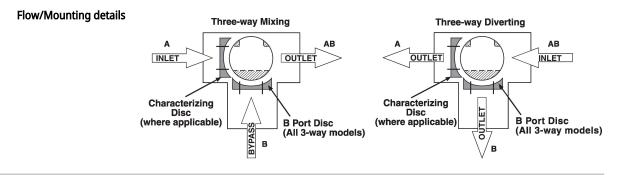


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

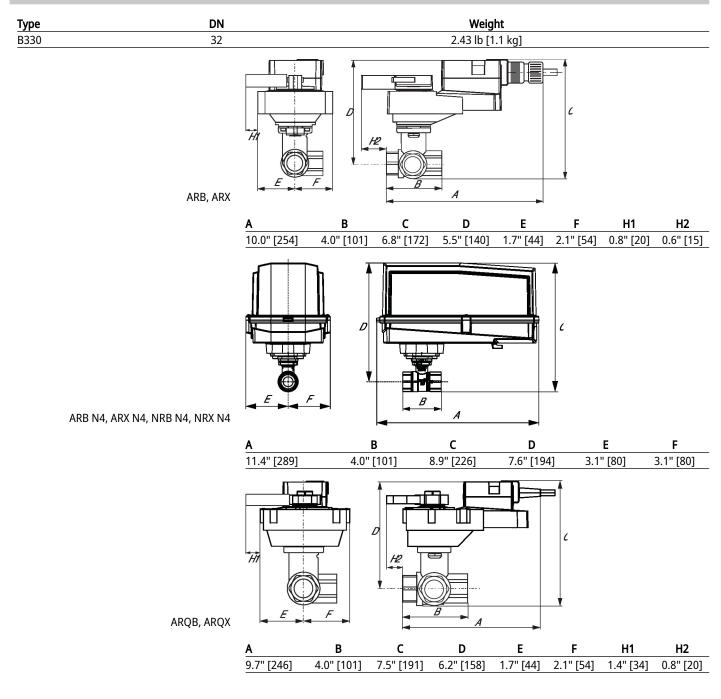


Application

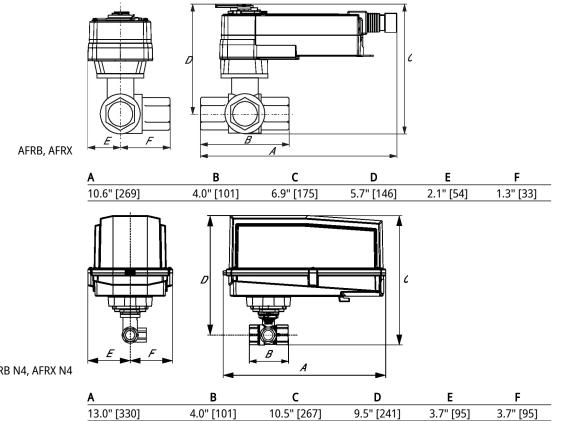
n This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



Dimensions







AFRB N4, AFRX N4



Technical data sheet

ARB24-SR-T

Modulating, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA





Technical data

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	2.5 W	
	Power consumption in rest position	0.4 W	
	Power consumption for wire sizing	5 VA	
	Transformer sizing	5 VA (class 2 power source)	
	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 k Ω for 210 V (0.1 mA), 500 Ω 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°	
	Noise level, motor	45 dB(A)	
	Position indication	Mechanically, pluggable	
Safety data	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 Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC	
	Quality Standard	ISO 9001	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	Max. 95% RH, non-condensing	
	Servicing	maintenance-free	
Materials	Housing material	Galvanized steel and plastic housing	

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



Electrical accesso	ies Description		Туре	
	Battery backup system, for non-	spring return models	NSV24 US	
	Battery, 12 V, 1.2 Ah (two requir	ed)	NSV-BAT	
Electrical installation				
	INSTALLATION NOTES			
	Actuators may be connected in observed.	parallel. Power consumption and	d input impedance must be	
	Actuators may also be powered			
	Only connect common to negat			
		A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V.		
		Actuators are provided with a numbered screw terminal strip instead of a cable.		
	Meets cULus requirements with	nout the need of an electrical gro	ound connection.	
	Warning! Live electrical compor	ients!		
	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.			
Wiring diagrams 210 V / 420 mA Control				
24 VAC Transformer	2 3 5 16			

