







Technical data

Functional data	Valve Size	1.5" [40]		
	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 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	46		
	Body pressure rating note	400 psi		
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB C		
Materials	Valve body	Nickel-plated brass body		
	Stem seal	EPDM (lubricated)		
	Seat	PTFE		
	Pipe connection	NPT female ends		
	O-ring	EPDM (lubricated)		
	Ball	stainless steel		
	Non-Spring	ARB(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

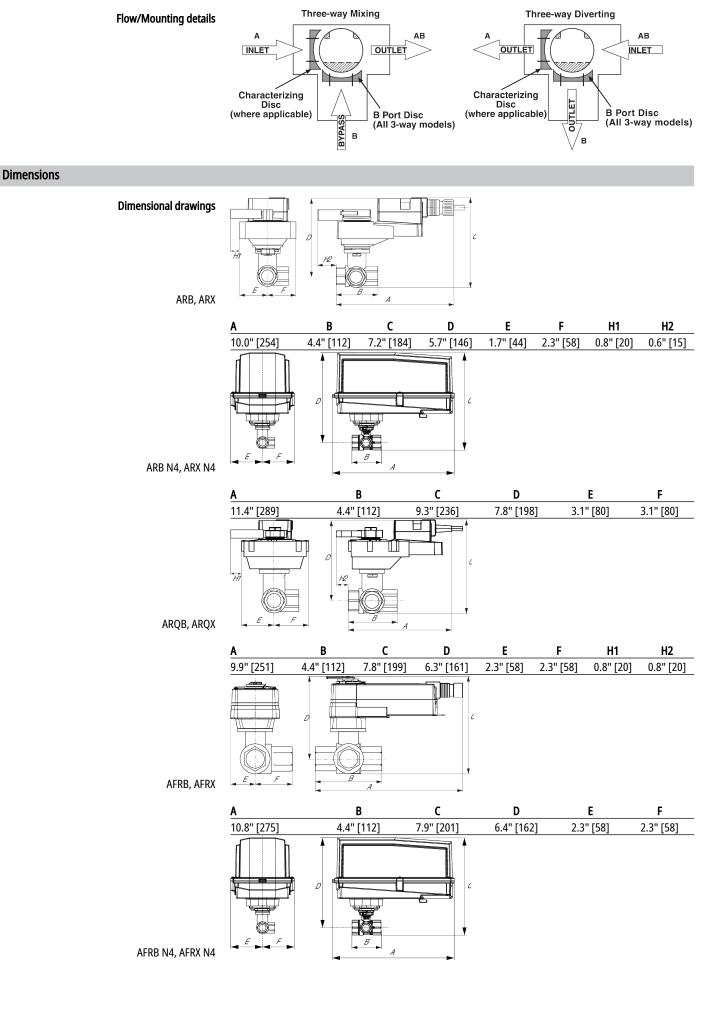
Product features

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.



Technical data sheet





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	A	В	с	D		E	F
	13.0" [330]	4.4" [112]	11.2" [284]	9.7" [246	5] 3.7	" [95]	3.7" [95]
	Α	В	С	D		E	F
	10.8" [275]	4.4" [112]	7.9" [201]	6.4" [162]] 2.3'	' [58]	2.3" [58]
ARQB, ARQX							
	A	B 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]
RB N4, AFRX N4							
	A	В	С	D		E	F
	13.0" [330]	4.4" [112]	11.2" [284]	9.7" [246	5] 3.7	" [95]	3.7" [95]

AFRI



for DC 2...10 V or 4...20 mA

Modulating, Non-Spring Return, AC 100...240 V,

Technical data sheet

ARX120-SR





Technical data

Electrical data	Nominal voltage	AC 100240 V				
	Nominal voltage frequency	50/60 Hz				
	Power consumption in operation	4 W				
	Power consumption in rest position	1 W				
Transformer sizing		7.5 VA (class 2 power source)				
	Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16ft [5m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54				
	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				
	Direction of motion motor	selectable with switch 0/1				
	Manual override	external push button 90°				
	Angle of rotation					
	Angle of rotation note	adjustable with mechanical stop				
	Running Time (Motor)	default 90 s, variable 90 or 150 s				
	Running time motor variable	90 or 150 s				
	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 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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC				
	Quality Standard	ISO 9001				
	Ambient temperature	-22122°F [-3050°C]				
	Storage temperature	-40176°F [-4080°C]				
	Ambient humidity	max. 95% r.H., non-condensing				
	Servicing	maintenance-free				
Weight	Weight	2.2 lb [1.0 kg]				

Safety notes



Technical data sheet

- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.
- Terminal-strip cover for NEMA 2 rating (-T models).
- MFT95 resistor kit for 4 to 20 mA control applications.
- Battery Back Up System for SY(10~12)-220P

Electrical installation

X INSTALLATION NOTES

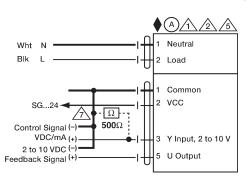
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(A) Actuators with appliance cables are numbered.

- \setminus Provide overload protection and disconnect as required.
- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- $\sqrt{5}$ Only connect common to negative (-) leg of control circuits.
 - Δ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
 - 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.



2...10 V / 4...20 mA Control AC 100...240 V