







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 200 psi		
	Close-off pressure ∆ps			
	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	29		
	Body pressure rating note	400 psi		
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AE Cv		
Materials	Valve body	Nickel-plated brass body		
	Stem	stainless steel		
	Stem seal	EPDM (lubricated)		
	Seat	PTFE		
	Characterizing disk	TEFZEL®		
	Pipe connection	NPT female ends		
	O-ring	EPDM (lubricated)		
	Ball	stainless steel		
Suitable actuators	Non-Spring	ARB(X)		
	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

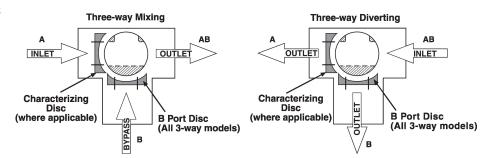
Application

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 reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

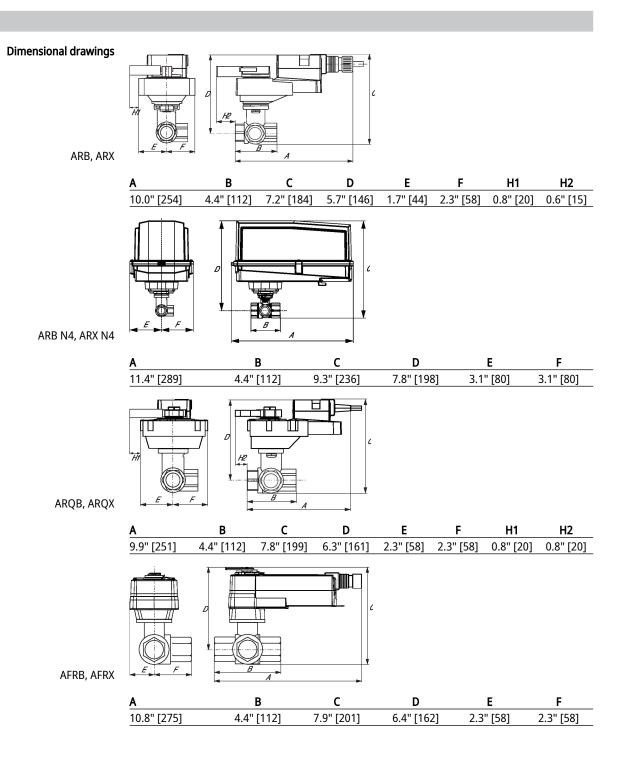


Technical data sheet

Flow/Mounting details



Dimensions





D



AFRB N4, AFRX N4

N4			¥				
	A	В	с	D	Е	F	
	13.0" [330]	4.4" [112]	11.2" [284]	9.7" [246]	3.7" [95]	3.7" [95]	



NEMA 4X, Modulating Control, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA **Technical data sheet**

ARX24-SR-T N4





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		
	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)		
	Direction of motion motor	selectable with switch 0/1		
	Manual override	under cover		
	Angle of rotation	90°		
	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	pointer		
Safety data	Degree of protection IEC/EN	IP66/67		
	Degree of protection NEMA/UL	NEMA 4X		
	Enclosure	UL Enclosure Type 4X		
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU		
	Quality Standard	ISO 9001		
	Ambient temperature	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Ambient humidity	Max. 100% RH		
	Servicing	maintenance-free		
Weight	Weight	3.3 lb [1.5 kg]		

Accessories

Electrical acc	essories Description	Туре
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Battery backup system, for non-spring return models	NSV24 US
Electrical installation		

Electrical installation

X INSTALLATION NOTES

 \bigwedge Provide overload protection and disconnect as required.



Technical data sheet

- Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- Actuators may also be powered by DC 24 V.

\Lambda Only connect common to negative (-) leg of control circuits.

A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

 Λ_{16} Actuators are provided with a numbered screw terminal strip instead of a cable.

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

Marning! 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

