

## **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 Δps	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	19	
	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	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

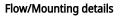
## **Product features**

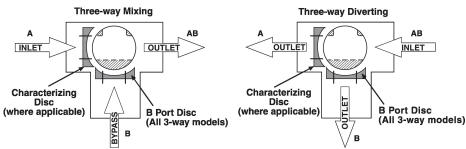
Application

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.

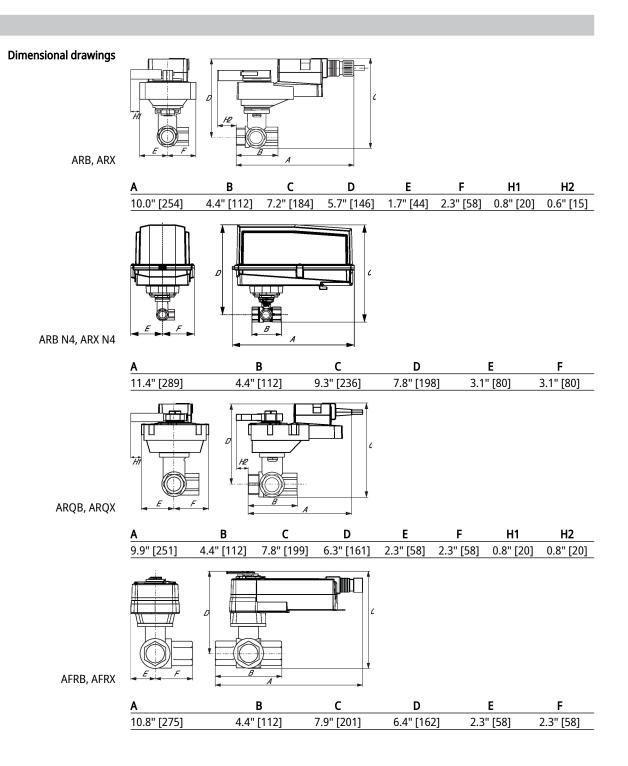


# **Technical data sheet**



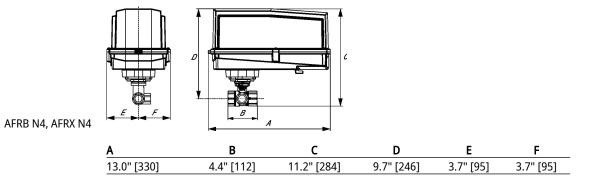


Dimensions











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.

 $\Lambda_{16}$  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

