







Technical data

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

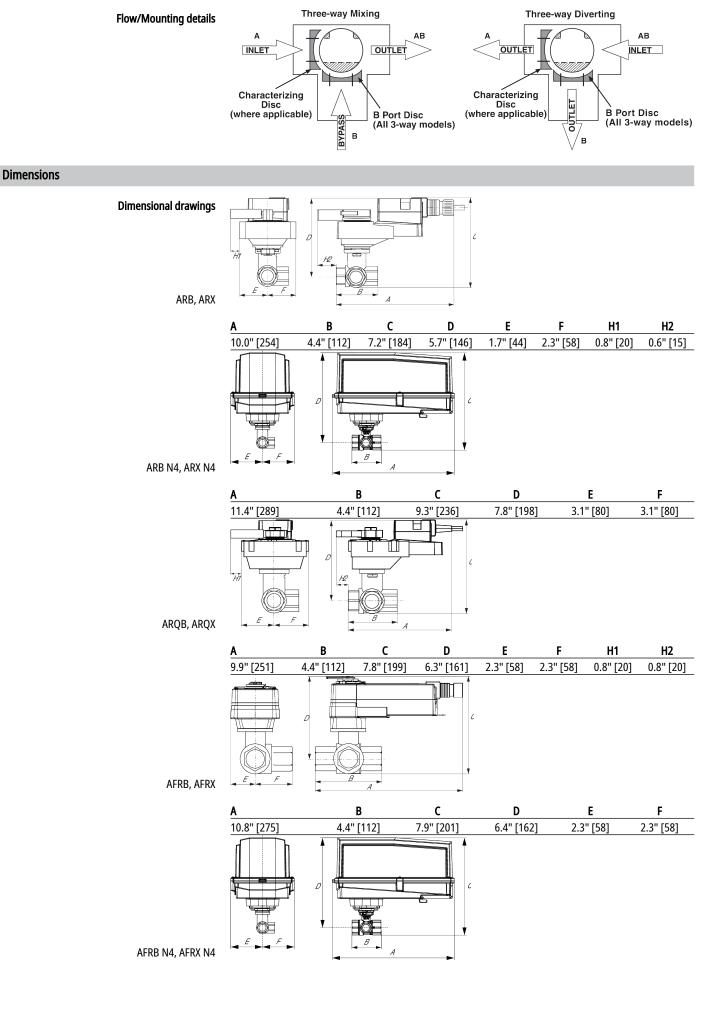
Product features

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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Tec	63		2.0	2.0	Not.
100	 	 0.0			



	A	В	С	D	E	F
	13.0" [330]	4.4" [112]	11.2" [284]	9.7" [246]	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						
	Α	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]
AFRB N4, AFRX N4						
	A	В	С	D	E	F
	13.0" [330]	4.4" [112]	11.2" [284]	9.7" [246]	3.7" [95]	3.7" [95]



Technical data sheet

AFRX24-MFT95



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Electrical data	Nominal voltage	AC/DC 24 V				
	Nominal voltage frequency	50/60 Hz				
	Power consumption in operation	7.5 W				
	Power consumption in rest position	3 W				
	Transformer sizing	10 VA (class 2 power source)				
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector				
	Overload Protection	electronic throughout 095° rotation				
Functional data	Operating range Y	0135 Ω				
	Operating range Y note	Honeywell Electronic Series 90, input 0135 $\boldsymbol{\Omega}$				
	Position feedback U	210 V				
	Position feedback U note	Max. 0.5 mA				
	Position feedback U variable	VDC variable				
	Direction of motion motor	selectable with switch				
	Direction of motion fail-safe	reversible with cw/ccw mounting				
	Manual override	5 mm hex crank (3/16" Allen), supplied				
	Angle of rotation	90°				
	Running Time (Motor)	default 150 s, variable 70220 s				
	Running time motor variable	70220 s				
	Running time fail-safe	<20 s tamb = 68°F [20°C]				
	Angle of rotation adaptation	off (default)				
	Noise level, motor	45 dB(A)				
	Noise level, fail-safe	62 dB(A)				
	Position indication	Mechanical				
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	4.1 lb [1.9 kg]				
Materials	Housing material	Galvanized steel and plastic housing				





Gateways	Description	Туре	
	Gateway MP to BACnet MS/TP	UK24BAC	
	Gateway MP to LonWorks	UK24LON	
	Gateway MP to Modbus RTU	UK24MOD	
Service tools	Description	Туре	
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN	
	Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US	

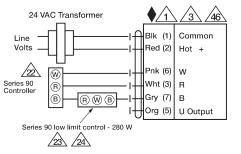
Electrical installation

X INSTALLATION NOTES

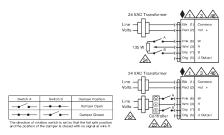
- \bigwedge Provide overload protection and disconnect as required.
- $\overline{3}$ Actuators may also be powered by 24 VDC.
- 22 Actuators and controller must have separate transformers.
- $\frac{1}{23}$ Consult controller instruction data for more detailed information.
- A Resistor value depends on the type of controller and the number of actuators. No resistor is used for one actuator. Honeywell® resistor kits may also be used.
- 25 To reverse control rotation, use the reversing switch.
- 4 Actuators may be controlled in parallel. Current draw and input impedance must be observed.
 - Meets cULus requirements without the need of an electrical ground connection.

/ Warning! Live Electrical Components!

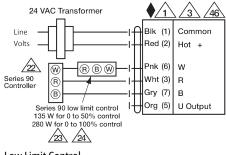
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



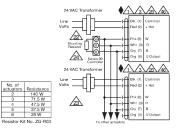




Typical and Override Control

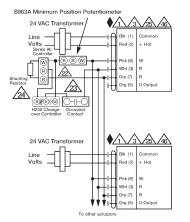


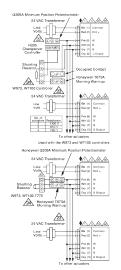




Multiple Actuators







Multiple Actuators with Minimum Position Potentiometer

Multiple Actuators Used with W973, W7100 and T775