



Technical data

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Valve Size	0.5" [15]	
Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	0250°F [-18120°C]	
Body Pressure Rating	600 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	10	
Body pressure rating note	600 psi	
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv	
Valve body	Nickel-plated brass body	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
Pipe connection	NPT female ends	
0-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	TR	
. •	LRB(X)	
	NRB(X) N4	

Safety notes



Suitable actuators

Materials

 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

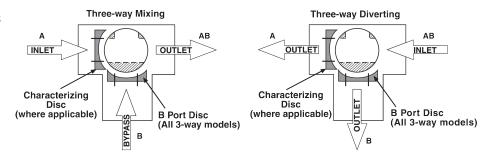
Product features

Application

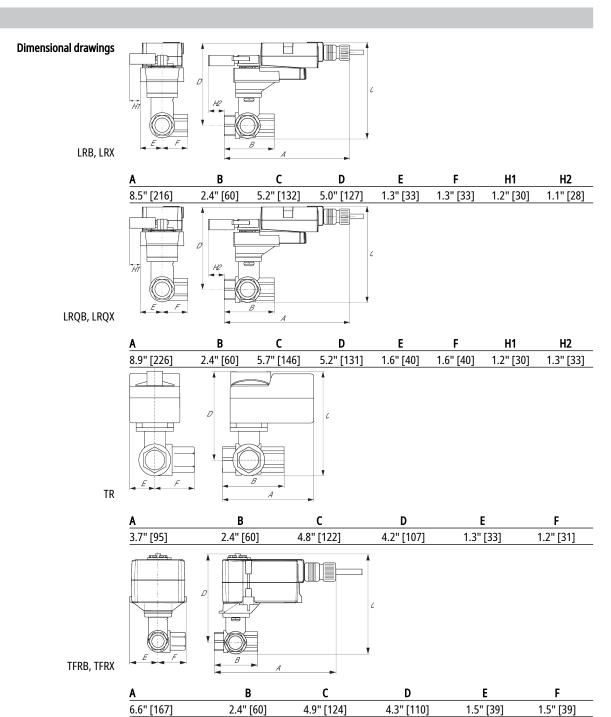
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



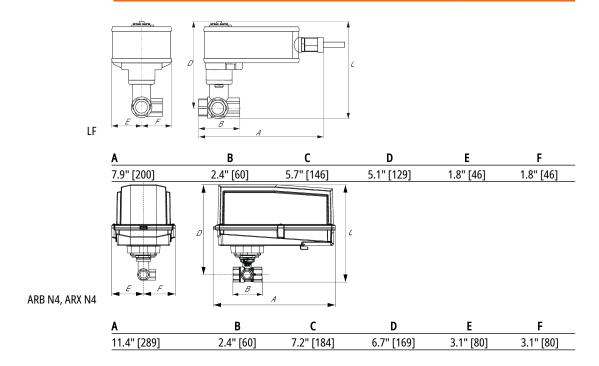
Flow/Mounting details



Dimensions













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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	1 W		
	Transformer sizing	4 VA (class 2 power source)		
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Input Impedance	1000 Ω (0.6 W)		
	Position feedback U note	No Feedback		
	Direction of motion motor	selectable with switch 0/1		
	Direction of motion fail-safe	reversible with cw/ccw mounting		
	Angle of rotation	Max. 95°, 90°		
	Angle of rotation note	90°		
	Running Time (Motor)	95 s		
	Running time fail-safe	<25 s tamb = 68°F [20°C]		
	Noise level, motor	35 dB(A)		
	Noise level, fail-safe	62 dB(A)		
	Position indication	Mechanical		
Safety data	Degree of protection IEC/EN	IP42		
	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 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	5.6 lb [0.80 kg]		
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Electrical installation



INSTALLATION NOTES

Provide overload protection and disconnect as required.



Technical data sheet TFRB24-3

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

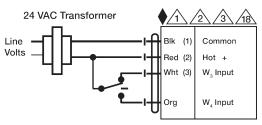
Actuators may also be powered by 24 VDC.

Actuators with plenum cable do not have numbers; use color codes instead.

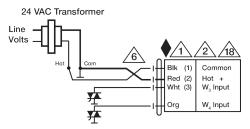
Meets cULus requirements without the need of an electrical ground connection.

Warning! Live Electrical Components!

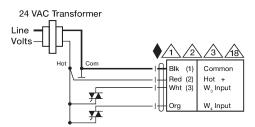
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



Floating Point



Floating Point - Triac Sink



Floating Point - Triac Source