

ALANO A



Technical data

Functional data	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 ∆ps	200 psi	
	Flow characteristic	equal percentage	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Leakage rate	0% for A – AB	
	Controllable flow range	75°	
	Cv	16	
	Body pressure rating note	600 psi	
	No Characterized Disc	TRUE	
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv	
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	
Suitable actuators	Non-Spring	TR	
		LRB(X)	
		NR	

Safety notes



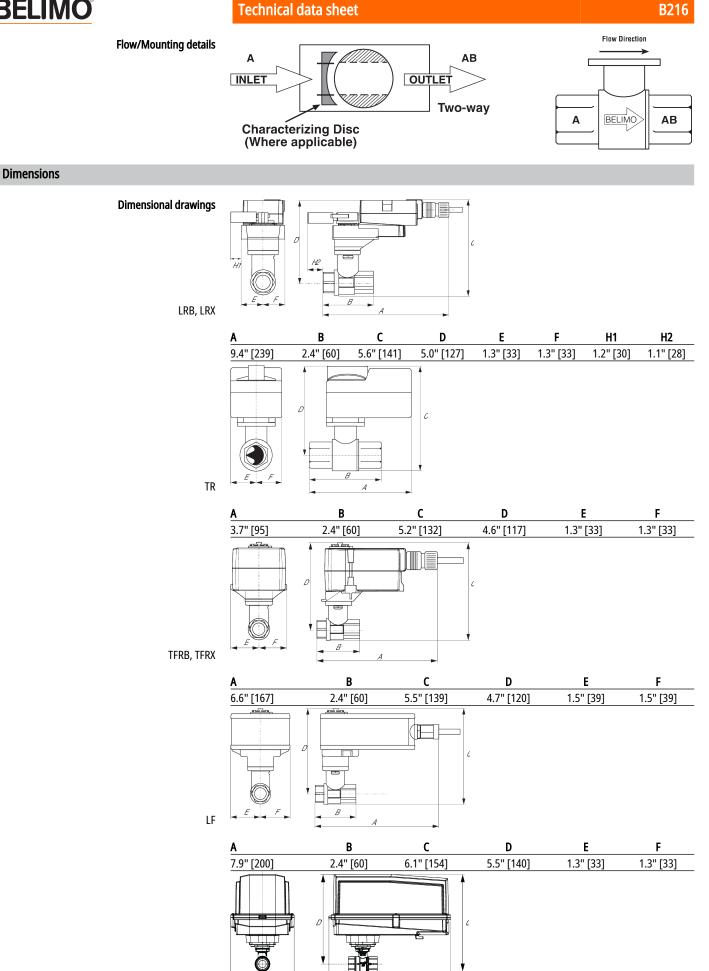
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

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 flow.





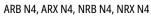
ARB N4, ARX N4, NRB N4, NRX N4

Β_



	Technical	data sheet				B216
	A	В	С	D	E	F
	11.4" [289]	2.4" [60]	7.7" [196]	7.0" [179]	3.1" [80]	3.1" [80]
	Α	В	С	D	E	F
	7.9" [200]	2.4" [60]	6.1" [154]	5.5" [140]	1.3" [33]	1.3" [33]
RX						
	Α	В	C	D	E	F
	6.6" [167]	2.4" [60]	5.5" [139]	4.7" [120]	1.5" [39]	1.5" [39]
N4						
	A	В	С	D	E	F

TF





TFRX120-S





Technical data

Electrical data	Nominal voltage	AC 100240 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	2.5 W		
	Power consumption in rest position	1.3 W		
	Transformer sizing	5 VA (class 2 power source)		
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°		
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V		
	Electrical Connection	(2) 18 GA appliance cables, 3 ft [1 m], 10 ft [3 m] or 16ft [5 m], with 1/2" conduit connectors		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Position feedback U note	No Feedback		
	Direction of motion motor	selectable by ccw/cw mounting		
	Direction of motion fail-safe	reversible with cw/ccw mounting		
	Angle of rotation	Max. 95°, adjustable with mechanical stop		
	Angle of rotation note	adjustable with mechanical stop		
	Running Time (Motor)	75 s		
	Running time fail-safe	<75 s tamb = 68°F [20°C]		
	Noise level, motor	50 dB(A)		
	Noise level, fail-safe	50 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		
	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	1.8 lb [0.80 kg]		
Materials	Housing material	UL94-5VA		

Electrical installation

Actuators with appliance cables are numbered. Provide overload protection and disconnect as required.



Technical data sheet

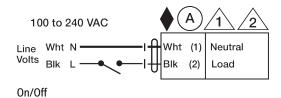


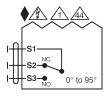
Actuators may be connected in parallel. Power consumption and input impedance must be observed. 🗚 One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc. Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

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.





Auxiliary Switches