

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°	
	Си	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



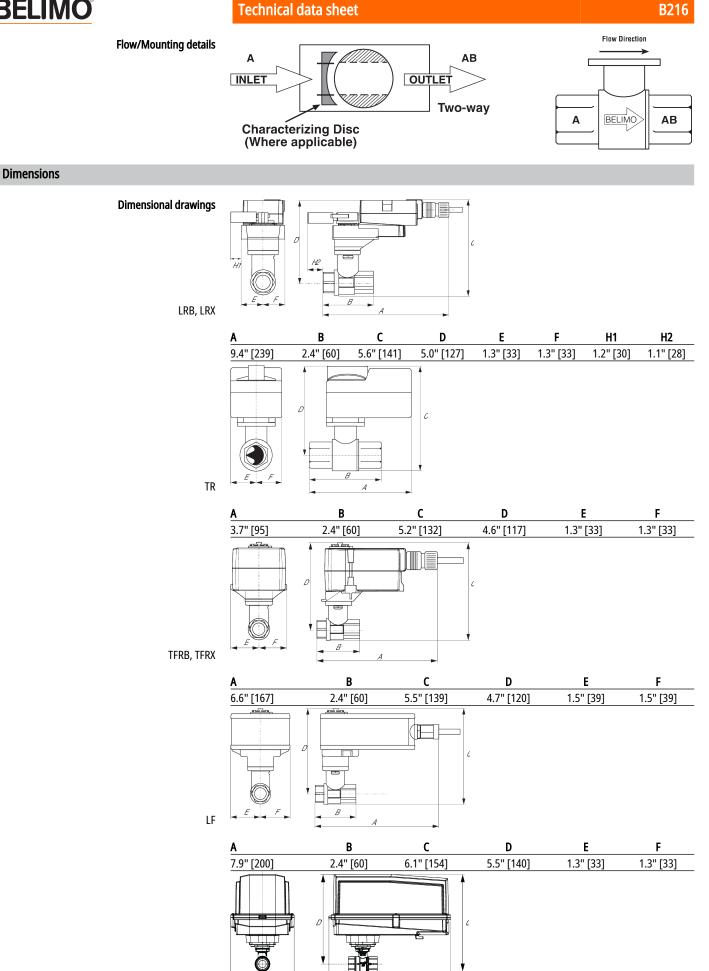
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

#### **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.





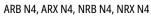
ARB N4, ARX N4, NRB N4, NRX N4

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





**Technical data sheet** 

LRB24-3





## **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	1.5 W	
	Power consumption in rest position	0.2 W	
	Transformer sizing	2.5 VA (class 2 power source)	
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Input Impedance	600 Ω	
	Direction of motion motor	selectable with switch 0/1	
	Manual override	external push button	
	Angle of rotation	90°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	90 s	
	Noise level, motor	35 dB(A)	
	Position indication	Mechanically, pluggable	
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	
	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	1.1 lb [0.50 kg]	

## Safety notes



- PVC W'Shld for GV w/UGLK (AM)
- Battery Back Up System for SY(7~10)-110
- ZS-300 Mounting Bracket Set
- 120 to 24 VAC, 40 VA transformer.
- Cable for ZTH US to actuators w/o diagnostics socket.
- PC Tool computer programming interface, serial port.

**Electrical installation** 

# $\swarrow$ installation notes

A 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 24 VDC.

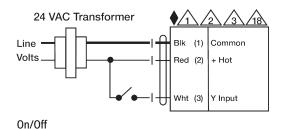
Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

 $f_{18}$  Actuators with plenum cable do not have numbers; use color codes instead.

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

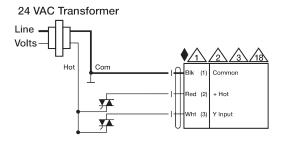
#### / Warning! Live Electrical Components!

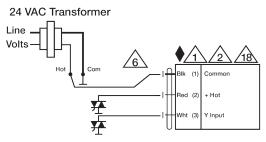
<sup>^</sup> During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure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



24 VAC Transformer

**Floating Point** 





**Floating Point - Triac Sink**