

#### **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 ∆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	1.9		
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)		

#### 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	
Non-Spring	TR	
	LRB(X)	

# Suitable actuators

# 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

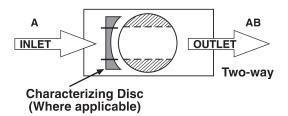
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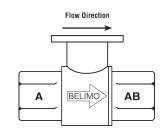
### **Product features**

## **Application**

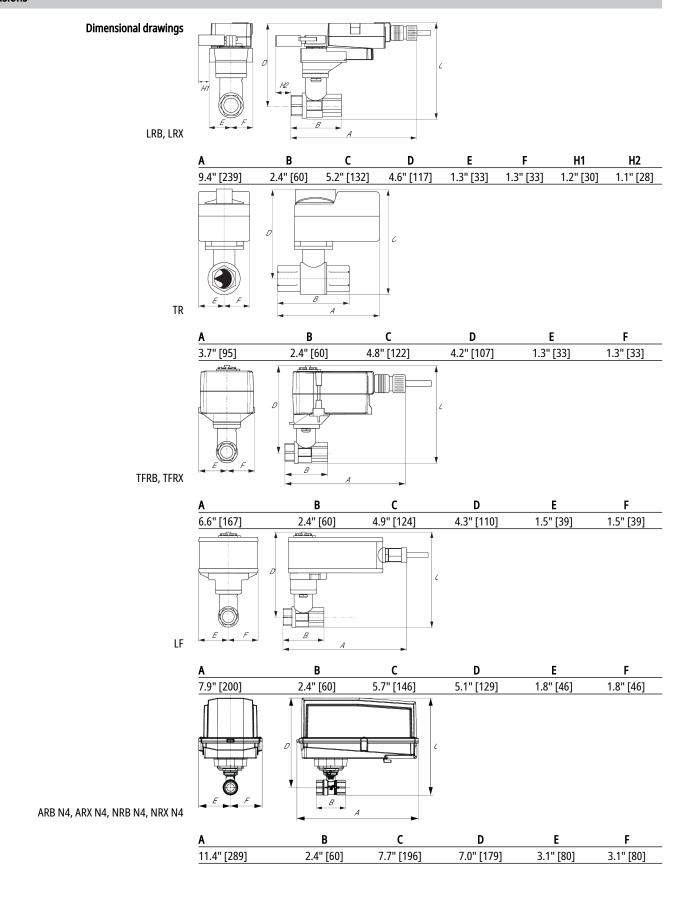
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

## Flow/Mounting details

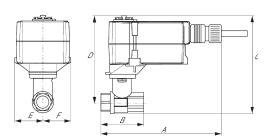




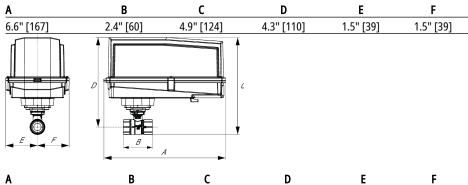








TFRB, TFRX

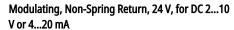


ARB N4, ARX N4, NRB N4, NRX N4

A	В	С	D	E	F
11.4" [289]	2.4" [60]	7.7" [196]	7.0" [179]	3.1" [80]	3.1" [80]

# **Technical data sheet**

TR24-SR-T US











nical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	0.5 W	
	Transformer sizing	1 VA (class 2 power source)	
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)	
	Overload Protection	electronic throughout full rotation	
Functional data	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)	
	Input Impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA	
	Direction of motion motor	selectable with switch	
	Manual override	push down handle	
	Angle of rotation	90°	
	Running Time (Motor)	90 s / 90°	
	Noise level, motor	35 dB(A)	
	Position indication	Mechanically, pluggable	
Safety data	Degree of protection IEC/EN	IP40	
	Degree of protection NEMA/UL	NEMA 1 UL Enclosure Type 1	
	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	

## Safety notes



Weight

Weight

- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.
- NEMA 4X, 304 stainless steel enclosure.
- MFT95 resistor kit for 4 to 20 mA control applications.

0.61 lb [0.28 kg]

## **Electrical installation**



Technical data sheet TR24-SR-T US

Provide overload protection and disconnect as required.

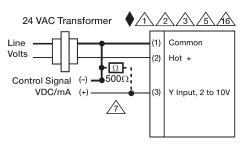
Actuators may also be powered by 24 VDC.

\ Actuators are provided with a numbered screw terminal strip instead of a cable.

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.



2...10 V / 4...20 mA Control