







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
	Body pressure rating note	600 psi
	Close-off pressure ∆ps	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	4.7
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Materials	Valve body	Nickel-plated brass body
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterizing disk	TEFZEL®
	Pipe connection	NPT female ends
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non-Spring	TR LRB(X) NR
	Spring	TFRB(X) LF

Safety notes

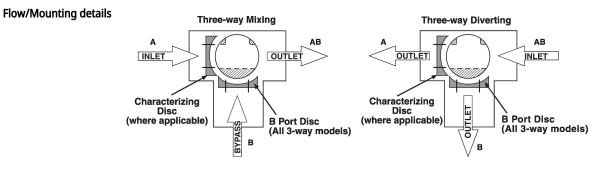


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

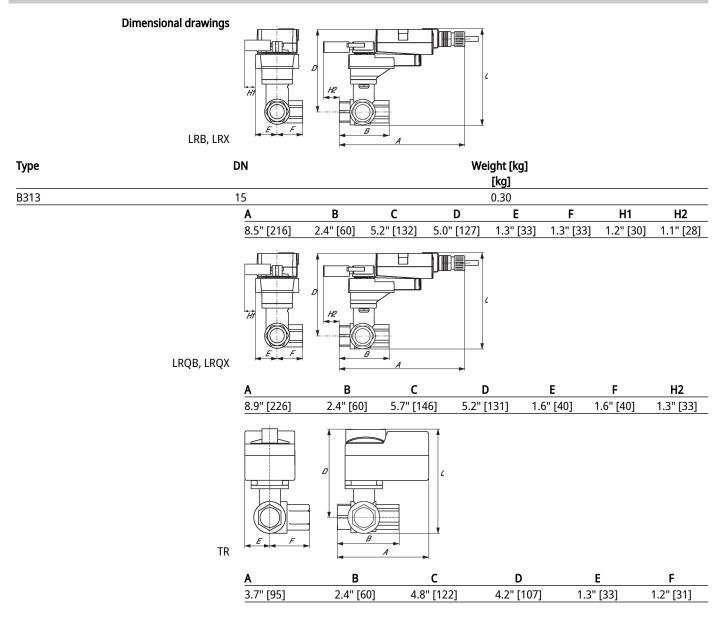


Product features

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 reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

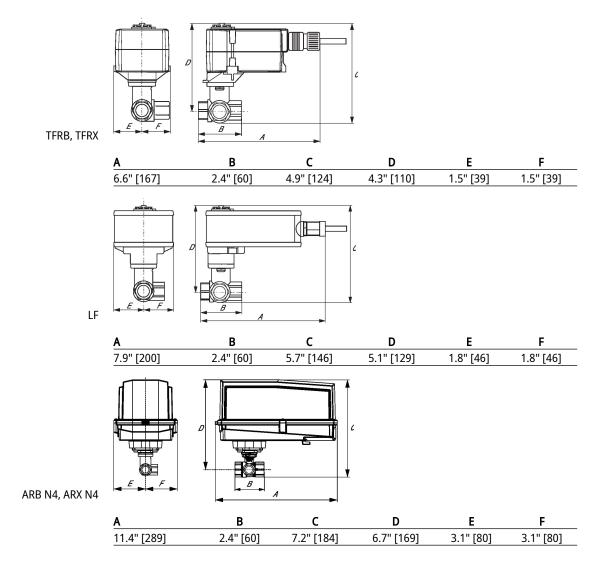


Dimensions











Technical data sheet

LRX24-SR-T

Modulating, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA





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	3 VA (class 2 power source)
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)
	Overload Protection	electronic thoughout 090° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA
	Position feedback U	210 V
	Position feedback U note	Max. 1 mA
	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
	Enclosure	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 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	1.1 lb [0.50 kg]



Electrical accessories Description Type Battery backup system, for non-spring return models NSV24 US Battery, 12 V, 1.2 Ah (two required) NSV-BAT Auxiliary switch 1 x SPDT add-on SIA Auxiliary switch 2 x SPDT add-on, grey P140A GR Feedback potentiometer 140 Ω add-on, grey P1000A GR Feedback potentiometer 10 kΩ add-on, grey P10000A GR Feedback potentiometer 10 kΩ add-on, grey P10000A GR Feedback potentiometer 500 Ω add-on, grey P5000A GR Feedback potentiometer 500 Ω add-on, grey P5000A GR Feedback potentiometer 5 kΩ add-on, grey P5000A GR Peedback potentiometer 5 kΩ add-on, grey P5000A GR Feedback potentiometer 5 kΩ add-on, grey P5000A GR Peedback potentiometer 5 kΩ add-on, grey P5000A GR Peedback potentiometer 5 kΩ add-on, grey P5000A GR Provide overload protection and disconnect as required. Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by DC 24 V. Only connect common to negative (-) leg of control circuits. A 500 O resistor (76.P01) converts the 4_20 mA control signal to 2_10 V Only control signal to 2_10 V	Accessories						
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	, i i i i i i i i i i i i i i i i i i i	Λ A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V					

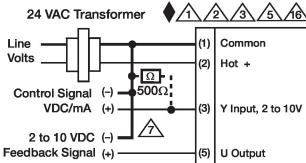
- Actuators are provided with a numbered screw terminal strip instead of a cable.
 - Meets cULus requirements without the need of an electrical ground connection.

Marning! 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.

Wiring diagrams

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



Installation notes

Dimensions

Servicing