







#### 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	1.2
	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) NRB(X) N4
	Spring	TFB(X) LF

## Safety notes

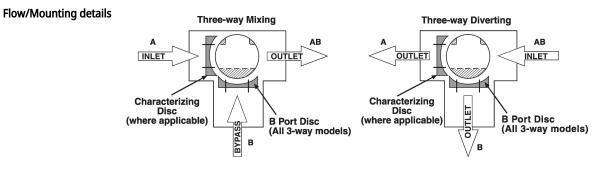


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

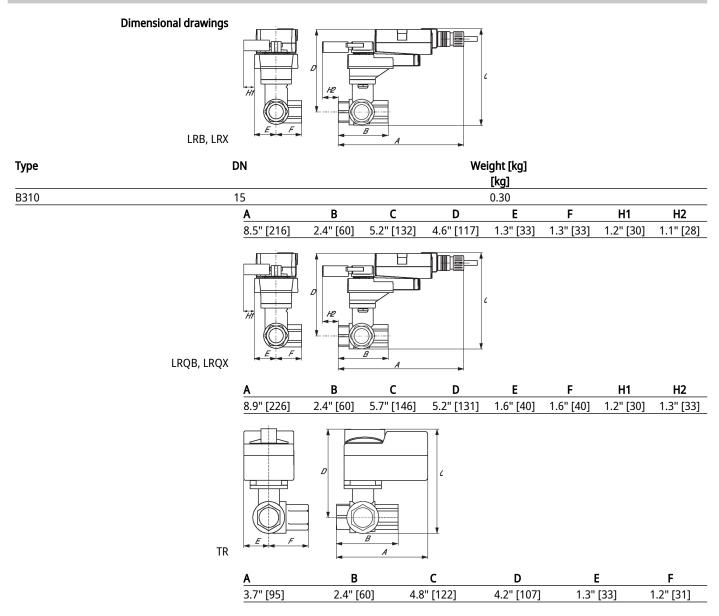


#### **Product features**

**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.

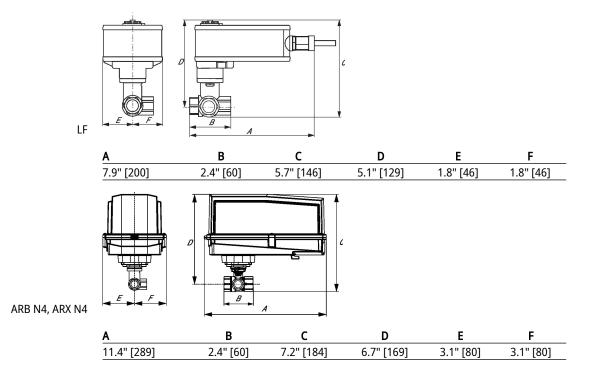


#### Dimensions











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**Technical data sheet** 

LRX24-3





### **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 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]
	Overload Protection	electronic thoughout 090° rotation
Functional data	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	0.67 lb [0.30 kg]

## **Product features**

Mode of operation

FBGL W'Shld for F6 HS(U) (AFx2, 2.5"-3")

Home position



Floating Point - Triac Source 24 VAC Transformer Line	NSV24 US
Auxiliary switch 1 x SPDT add-on         Auxiliary switch 2 x SPDT add-on, grey         Feedback potentiometer 14 0Ω add-on, grey         Feedback potentiometer 10 kΩ add-on, grey         Feedback potentiometer 10 kΩ add-on, grey         Feedback potentiometer 10 kΩ add-on, grey         Feedback potentiometer 500 Ω add-on, grey         Feedback potentiometer 500 Ω add-on, grey         Feedback potentiometer 5 kΩ add-on, grey         Actuators may also be powered by DC 24V.         Actuators with plenum cable do not have numbers; use color codes in         Matting installation         Warningl Live electrical components.         Feedback potentiometer full         Va	
Auxiliary switch 2 x SPDT add-on Feedback potentiometer 140 Ω add-on, grey Feedback potentiometer 10 kΩ add-on, grey Feedback potentiometer 50 Ω add-on, grey Feedback potentiometer 50 Ω add-on, grey         Installation	NSV-BAT
Feedback potentiometer 1 kΩ add-on, grey Feedback potentiometer 1 kΩ add-on, grey Feedback potentiometer 2.8 kΩ add-on, grey Feedback potentiometer 5 kΩ add-on, grey         Feedback potentiometer 5 kΩ add-on, grey Feedback potentiometer 5 kΩ add-on, grey         Feedback potentiometer 5 kΩ add-on         Actuators with plenum cable potent thave numbers; use color codes in the spectral components.         Maring Live electrical components:         Noting	S1A
Feedback potentiometer 1 kΩ add-on, grey         Feedback potentiometer 10 kΩ add-on, grey         Feedback potentiometer 5 kΩ add-on, grey         Actuators may also be powered by DC 24 V.         Actuators Hot wire must be connected to the control board common.         neg.(-) leg of control circuits. Terminal models (-T) have no-feedback         Folding	S2A
Feedback potentiometer 10 kΩ add-on, grey Feedback potentiometer 5 kΩ add-on, grey Feedback potention and fisconnet failure to follow all electrical soft precautions when exposed to live could result in death or serious injury. Floating Point - Triac Source Floating Point - Triac Source 24 VAC Transformer Line	P140A GR
Feedback potentiometer 2.8 kΩ add-on, grey Feedback potentiometer 5 kΩ add-on, grey         ectrical installation         ************************************	P1000A GR
Feedback potentiometer 500 Ω add-on, grey         Feedback potentiometer 5 kΩ add-on, grey         Actuators may be connected in parallel. Power consumption and inpuose         Sector 1         Actuators may also be powered by DC 24 V.         Actuators Hot wire must be connected to the control board common.         neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in         Meets cULus requirements without the need of an electrical ground of this pro         To work with live electrical components. Have a qualified licensed elewho has been properly trained in handling live electrical components         Failure to follow all electrical safety precautions when exposed to live could result in death or serious injury.         Fring diagrams       Floating Point         n/Off       24 VAC Transformer	P10000A GR
rectrical installation	P2800A GR
INSTALLATION NOTES         Provide overload protection and disconnect as required.         Actuators may be connected in parallel. Power consumption and inpuoserved.         Actuators may also be powered by DC 24 V.         Actuators that wire must be connected to the control board common.         neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in         Meets cUlus requirements without the need of an electrical ground of the vork with live electrical components.         During installation, testing, servicing and troubleshooting of this proto to work with live electrical components.         Provide overload result in death or serious injury.         Actuators with glearmas         n/Off         24 VAC Transformer         interference         interference         Vont group         Point - Triac Source         24 VAC Transformer         interference         interference         Actuators         Vint (3) v Input         Deating Point - Triac Source         24 VAC Transformer         interference         interference         interference         Vint (3) v Input            Deating Point - Triac Sink <t< td=""><td>P500A GR</td></t<>	P500A GR
INSTALLATION NOTES         Provide overload protection and disconnect as required.         Actuators may be connected in parallel. Power consumption and inpuoses of the control board common. neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators Hot wire must be connected to the control board common. neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in the control board common. neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in the control board common. neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in the control board common. neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in the control board common. neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Actuators with plenum cable do not have numbers; use color codes in the control board common. Neg. (-) leg of control circuits. Terminal models (-T) have no-feedback         Warning! Live electrical components:         During installation, testing, servicing and troubleshooting of this proto to work with live electrical safety precautions when exposed to live could result in death or serious injury.         Wiring diagrams       Floating Point         Information       State (-) + hot the death or serious injury.         Voct Transformer <td>P5000A GR</td>	P5000A GR
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	Blk (1) Common
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	Wht (3) Y Input

# Dimensions