







### **Technical data**

Functional data	Valve Size	0.75" [20]	
	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 Δps	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	14	
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – Al 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	LRB(X) NRB(X) N4	
	Spring	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.



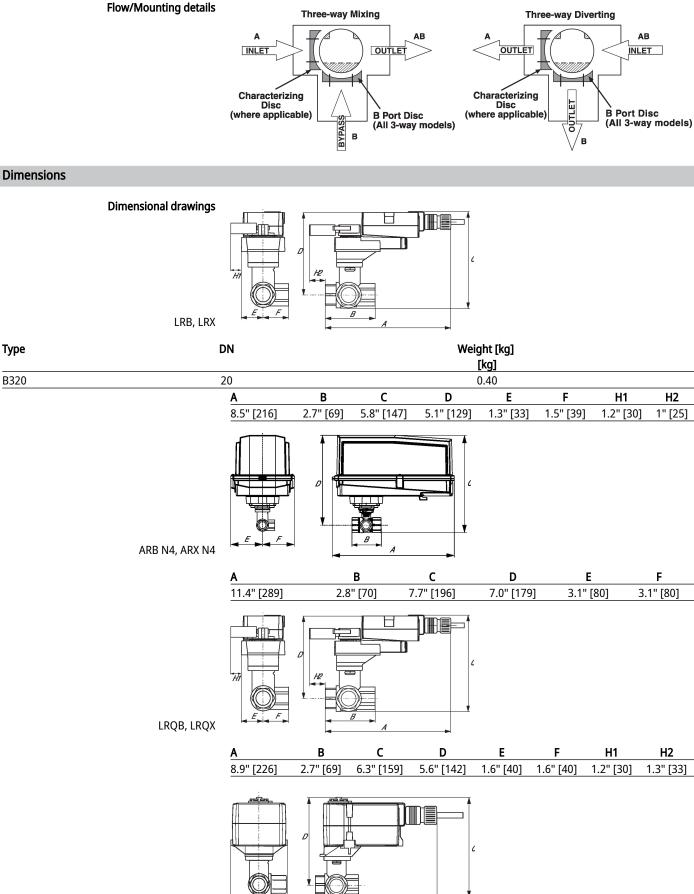
# **Technical data sheet**

H2

1" [25]

F

H2





On/Off, Floating Point, Non-Spring Return, 24 V LRX24-3-S

5-year warranty

CE



## **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)
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 0100%
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	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)	default 90 s, variable 150, 90, 45, 35 s
	Running time motor variable	150, 90, 45, 35 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 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% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	1.4 lb [0.60 kg]

## Product features

Mode of operation

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

Home position





	reennear aata		
Accessories			
Electrical accessories	Description		Туре
		for non-chring raturn models	NSV24 US
	Battery, 12 V, 1.2 Ah (t	n, for non-spring return models	NSV24 03 NSV-BAT
	Auxiliary switch 1 x SP	•	S1A
	Auxiliary switch 2 x SP		S2A
	Feedback potentiomet		P140A GR
	Feedback potentiomet	5 7	P1000A GR
	Feedback potentiomet	÷ .	P10000A GR
	•	er 2.8 kΩ add-on, grey	P2800A GR
	Feedback potentiomet	÷ .	P500A GR
	Feedback potentiomet	÷ .	P5000A GR
Electrical installation			
~	CINSTALLATION NOTES		
-		ection and disconnect as required.	
		nected in parallel. Power consumption and inp	out impedance must be
/3	Actuators may also be	powered by DC 24 V.	
	Actuators Hot wire mu	ust be connected to the control board commor	n. Only connect common to
	neg. (-) leg of control	circuits. Terminal models (-T) have no-feedbac	K.
A	Actuators with plenum	n cable do not have numbers; use color codes	instead.
44	One built-in auxiliary	switch (1x SPDT), for end position indication, ir	terlock control, fan startu
_	etc.		
<u> </u>		age or only UL-Class 2 voltage to the terminals peration of line voltage/safety extra low voltag	
		nents without the need of an electrical ground	
			connection.
	Warning! Live electric		1 I
		sting, servicing and troubleshooting of this pro	
		rical components. Have a qualified licensed ele y trained in handling live electrical component	
		ectrical safety precautions when exposed to liv	-
	could result in death of		e electrical components
	could result in death of	i serious injury.	
Wiring diagrams			
On/Off		Floating Point	
24 VAC Transformer	1 2 3 18	24 VAC Transformer	1 2 3 18
	(1) Common		3lk (1) Common
	d (2) + Hot		Red (2) + Hot
		•	
	it (3) Y Input		Wht (3) Y Input
Floating Point - Triac Source		Floating Point - Triac Sink	
24 VAC Transformer		24 VAC Transformer	
Volts		Volts –	
			(1)
Hot Com		Hot Com	
	Blk (1) Common	Hot Com	Blk (1) Common
	Red (2) + Hot		Red (2) + Hot
	Wht (3) Y Input	<del>۲</del> ۱۰	Wht (3) Y Input
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Dimensions