B325, 3-Way, Characterized Control Valve Stainless Steel Ball and Stem

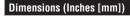


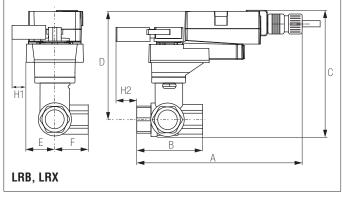


Application

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 or constant flow.

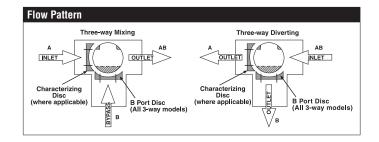
Suitable Actuators				
	Non-Spring	Spring		
B325	LR, NRB(X)	LF		





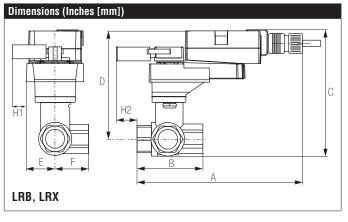
А	В	C	D	E	F	H1	H2
8.5"	3.07"	6" [150]	5.09"	1.3"	1.59"	1.18"	0.9" [23]
[216]	[78]		[129]	[33]	[40]	[30]	

Technical DataServicechilled, hot water, up to 60% glycolFlow CharacteristicA-port equal percentage, B-port modified for constant common port flowControllable Flow Range75°Size [mm]1" [25]End FittingNPT female endsBodyforged brass, nickel platedBallstainless steelStemstainless steelStem PackingEPDM (lubricated)SeatTeflon® PTFESeat 0-ringEPDM (lubricated)Characterized DiscTEFZEL®Body Pressure Rating [psi]600Media Temperature Range (Water)0°F to 250°F [-18°C to 120°C]Max Differential Pressure200 psiCv30Weight1.3 lb [0.6 kg]Leakage0% for A to AB, <2.0% for B to ABServicingmaintenance free		
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(Water)Image: Constraint of the second s	Body Pressure Rating [psi]	600
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Weight 1.3 lb [0.6 kg] Leakage 0% for A to AB, <2.0% for B to AB	Close-Off Pressure	200 psi
Leakage 0% for A to AB, <2.0% for B to AB	Cv	30
5	Weight	1.3 lb [0.6 kg]
Servicing maintenance free	Leakage	0% for A to AB, <2.0% for B to AB
	Servicing	maintenance free

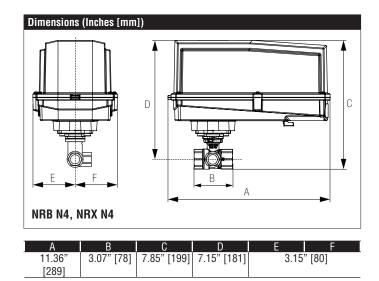


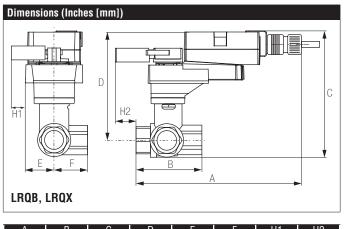


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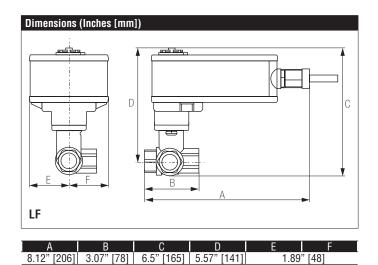


A	В	С	D	E	F	H1	H2
9.4"	3.07"	7.25"	6.31"	1.3"	[33]	1.18"	0.9" [23]
[239]	[78]	[184]	[160]			[30]	





A	В	С	D	E	F	H1	H2
8.9"	3.07"	6.64"	5.64"	1.58	" [40]	1.18"	1" [25]
[226]	[78]	[169]	[143]			[30]	



LF24-S US, Valve Actuator On/Off, Spring Return, 24 VAC/DC





CE	LISTED 94 D5 TEMP. IND. & CUL US REG. EQUIP.	

Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	5 W
Power Consumption Holding	2.5 W
Transformer Sizing	7 VA (class 2 power source)
Electrical Connection	(2) 3ft [1m], 18 GA appliance cables with 1/2" conduit connectors
Overload Protection	electronic throughout 0° to 95° rotation
Operating Range Y	on/off
Angle of Rotation	90°
Direction of Rotation (Motor)	reversible with built-in switch
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting
Position Indication	visual indicator, 0° to 95° (0° is full spring return position)
Running Time (Motor)	<40 to 75 sec
Running Time (Fail-Safe)	<25 sec @ -4°F to 122°F [-20°C to 50°C], < 60 sec @ -22°F [-30°C]
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]
Housing	NEMA 2, IP54
Agency Listings†	CULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
Noise Level (Motor)	<50 dB (A)
Noise Level (Fail-Safe)	<62 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Auxiliary Switch	1 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, adjustable 0° to 95° (double insulated)

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



Wiring Diagrams

🔀 INSTALLATION NOTES

A Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

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Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

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.

