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

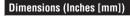


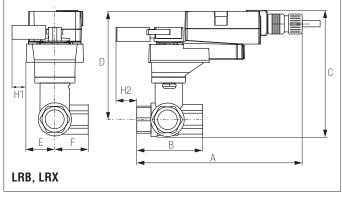


Application

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.

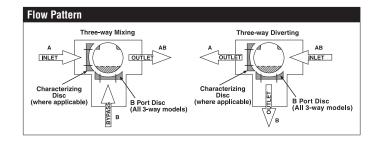
Suitable Actuators					
	Non-Spring	Spring			
B325	LR, NRB(X)	LF			





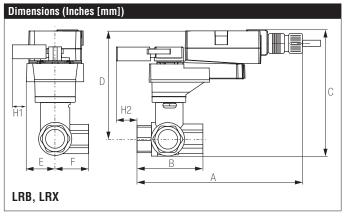
А	В	C	D	E	F	H1	H2
8.5"	3.07"	6" [150]	5.09"	1.3"	1.59"	1.18"	0.9" [23]
[216]	[78]		[129]	[33]	[40]	[30]	

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

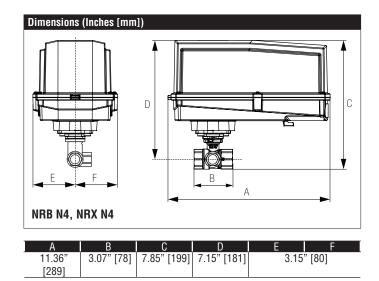


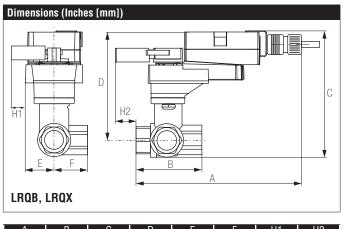


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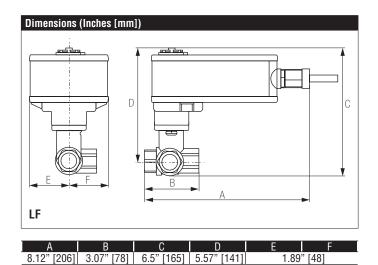


A	В	С	D	E	F	H1	H2
9.4"	3.07"	7.25"	6.31"	1.3"	[33]	1.18"	0.9" [23]
[239]	[78]	[184]	[160]			[30]	





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]	







Technical Data				
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%			
Power Consumption Running	1.5 W			
Power Consumption Holding	0.4 W			
Transformer Sizing	3 VA (class 2 power source)			
Electrical Connection	3ft [1m], 18 GA plenum cable with 1/2" conduit			
	connector			
Overload Protection	electronic thoughout 0° to 90° rotation			
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 $\Omega,$			
	1/4 W resistor)			
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4			
	to 20 mA			
Feedback Output U	2 to 10 VDC			
Angle of Rotation	90°			
Direction of Rotation (Motor)	reversible with built-in switch			
Position Indication	integrated into handle			
Manual Override	external push button			
Running Time (Motor)	90 sec			
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, IP42, UL Enclosure Type 2			
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA			
	E60730-1:02, CE acc. to 2004/108/EC			
Noise Level (Motor)	<35 dB (A)			
Servicing	maintenance free			
Quality Standard	ISO 9001			

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



LRB24-SR Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA

Wiring Diagrams

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🔀 INSTALLATION NOTES

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 24 VDC.
- Only connect common to negative (-) leg of control circuits.

A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

Actuators with plenum cable do not have numbers; use color codes instead.

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.

