

3-way Changeover/ Diverting, Chrome Plated Brass Ball and Nickel Plated Brass Stem



2-year warranty

Picture may differ from product

## Type overview

Type	DN
B325L	1" [25]

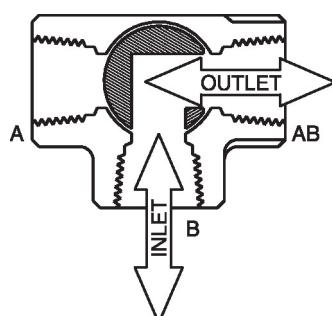
## Technical data

	Functional data	Valve size [mm]	1" [25]
Fluid		chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)		0...250°F [-18...120°C]	
Body Pressure Rating		600 psi	
Close-off pressure $\Delta$ ps		200 psi	
Flow characteristic		modified linear	
Leakage rate		0%	
Pipe connection		Internal thread NPT (female)	
Servicing		maintenance-free	
Flow Pattern		3-way Changeover/ Diverting	
Controllable flow range		75°	
Cv		11	
	Materials	Valve body	Nickel-plated brass body
	Stem		nickel-plated brass
	Seat		PTFE
	Ball		chrome plated brass
	Suitable actuators	Non Fail-Safe	LRB(X)
	Spring		LF

## 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 re-heat coils and bypass loops. This valve is suitable for use as diverting or change over valve.

## Flow/Mounting details



## Dimensions

## Type

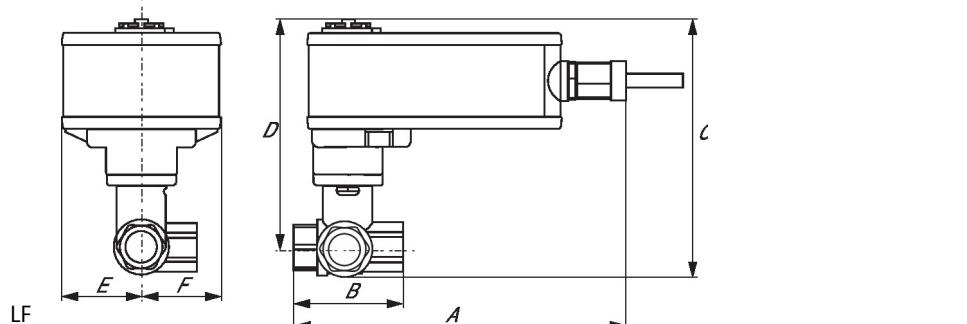
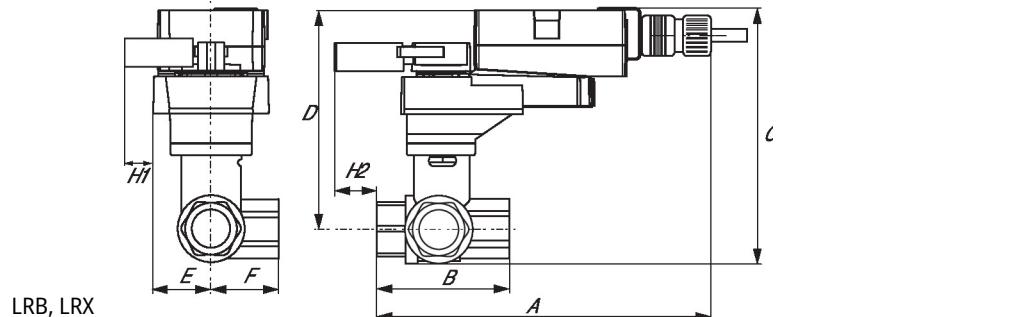
B325L

## DN

1" [25]

## Weight

1.3 lb [0.60 kg]



On/Off, Floating point, Non fail-safe, 24 V



5-year warranty



## Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V / DC 21.6...28.8 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.2 W
	Transformer sizing	2 VA
	Electrical Connection	18 AWG plenum cable with 1/2" NPT conduit connector, degree of protection NEMA 2 / IP54, 1 m, 3 m, and 5 m
	Overload Protection	electronic throughout 0...90° rotation
	Electrical Protection	actuators are double insulated
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 / 90°
	Noise level, motor	35 dB(A)
	Position indication	Mechanical, pluggable
Safety data	Power source UL	Class 2 Supply
	Degree of protection NEMA/UL	NEMA 2
	Housing	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	1.0 lb [0.45 kg]

Materials	Housing material	Galvanized steel and plastic housing
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Footnotes <sup>†</sup>Rated Impulse Voltage 800V, Type action 1.B, Control Pollution Degree 3.

## Accessories

Electrical accessories	Description	Type
Auxiliary switch 1x SPDT add-on		S1A
Auxiliary switch 2x SPDT add-on		S2A
Feedback potentiometer 140 $\Omega$ add-on, grey		P140A GR
Feedback potentiometer 1 k $\Omega$ add-on, grey		P1000A GR
Feedback potentiometer 10 k $\Omega$ add-on, grey		P10000A GR
Feedback potentiometer 2.8 k $\Omega$ add-on, grey		P2800A GR
Feedback potentiometer 500 $\Omega$ add-on, grey		P500A GR
Feedback potentiometer 5 k $\Omega$ add-on, grey		P5000A GR

## Electrical installation

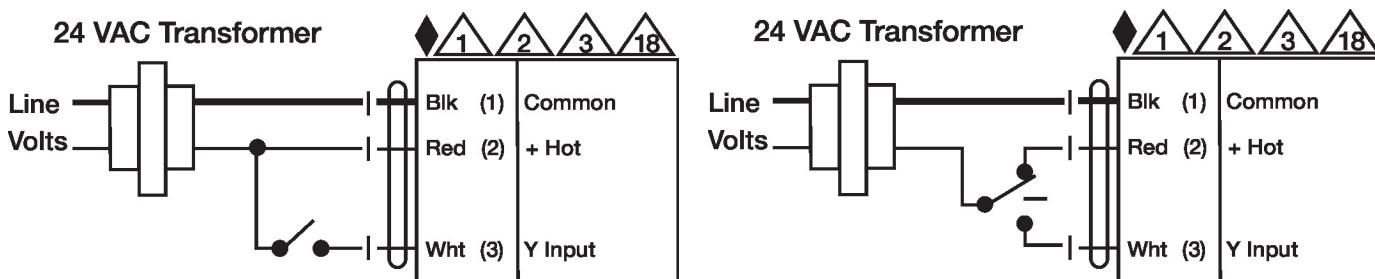
### INSTALLATION NOTES

-  **1** Provide overload protection and disconnect as required.
-  **2** Actuators may be connected in parallel. Power consumption and input impedance must be observed.
-  **3** Actuators may also be powered by DC 24 V.
-  **6** Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.
-  **16** 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.

## Wiring diagrams

On/Off

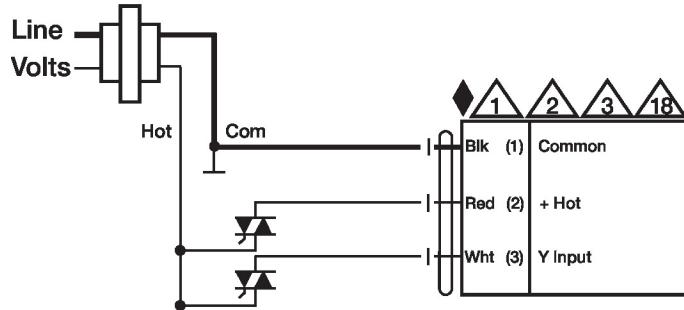
Floating Point



## Electrical installation

## Wiring diagrams

Floating Point - Triac Source

**24 VAC Transformer**

Floating Point - Triac Sink

**24 VAC Transformer**