

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
B320L	3/4" [20]

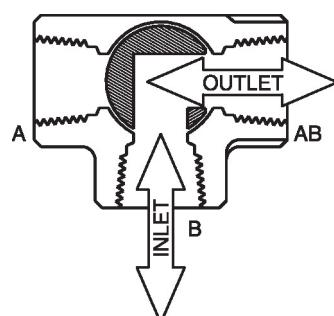
## Technical data

Functional data	
Valve size [mm]	0.75" [20]
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	12.8
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

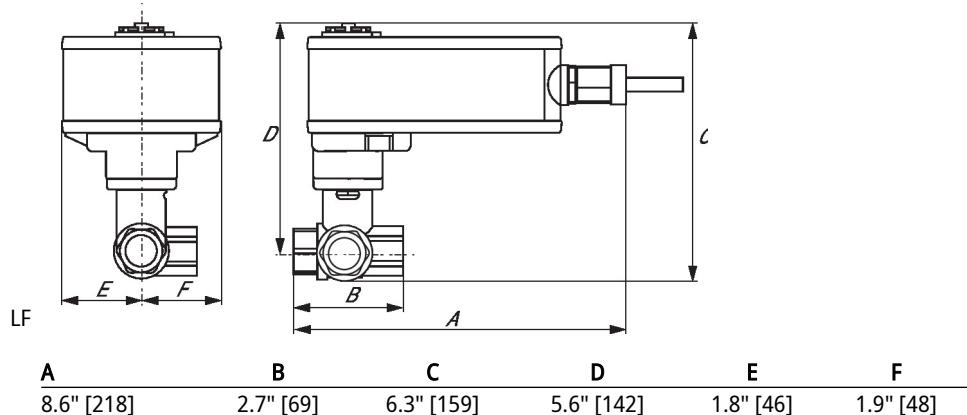
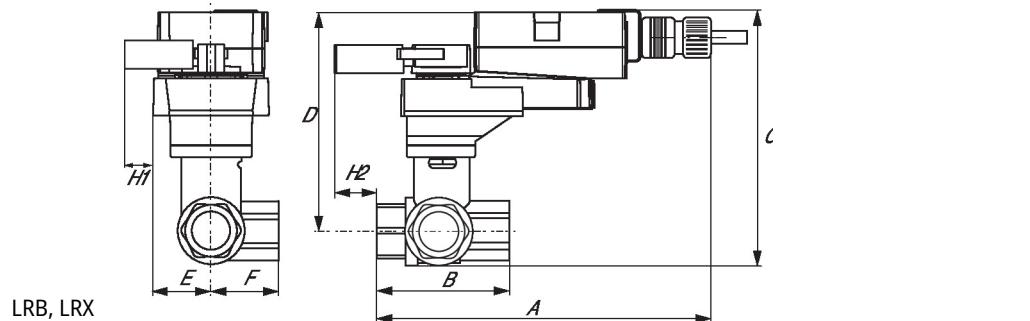
**Application** This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use as diverting or change over valve.

## Flow/Mounting details



## Dimensions

Type	DN	Weight
B320L	3/4" [20]	1.0 lb [0.46 kg]



On/Off, Spring return, 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	5 W
	Power consumption in rest position	2.5 W
	Transformer sizing	7 VA
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector
	Overload Protection	electronic throughout 0...95° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	90°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<25 s @ -4...122°F [-20...50°C], <60 s @ -22°F [-30°C]
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
	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	□

## Technical data

Materials	Housing material	galvanized steel
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Footnotes <sup>†</sup>Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

## Electrical installation

**☒ INSTALLATION NOTES**

- Ⓐ Actuators with appliance cables are numbered.
- ⚠ Provide overload protection and disconnect as required.
- ⚠ Actuators may also be powered by DC 24 V.
- ⚠ Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.
- ◆ 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

