

Type overview	
Туре	DN
B209	15

Technical data

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0.5" [15]	
chilled or hot water, up to 60% glycol	
0250°F [-18120°C]	
600 psi	
200 psi	
equal percentage	
maintenance-free	
2-way	
0% for A – AB	
75°	
0.8	

Materials

Valve body	Nickel-plated brass body	
Stem	stainless steel	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
Characterized disc	TEFZEL®	
Pipe connection	NPT	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	TR LRB(X)	

Suitable actuators

	LRB(X) NR
Spring	TFRB(X) 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 flow.



Flow/Mounting details

A AB 100%

A AB 100%

Two-way valves should be installed with the disc upstream.

•	disc upstream.	A → AB 100%	A → AB 100%	
Dimensions				
Type B209	DN 15		Weight 0.44 lb [0.20 kg]	
	LRB, LRX			c
	<u>A</u> 9.4	B C 4" [239] 2.4" [60] 5.2" [13	D E 2] 4.6" [117] 1.3" [33] 1.	F H1 H2 3" [33] 1.2" [30] 1.1" [28]
	TR			
	<u>A</u> 3.7	B 7" [95] 2.4" [60]	C D 4.8" [122] 4.2" [107]	E F 1.3" [33] 1.3" [33]
	TFRB, TFRX		A	<i>c</i>

В

2.4" [60]

6.6" [167]

C

4.9" [124]

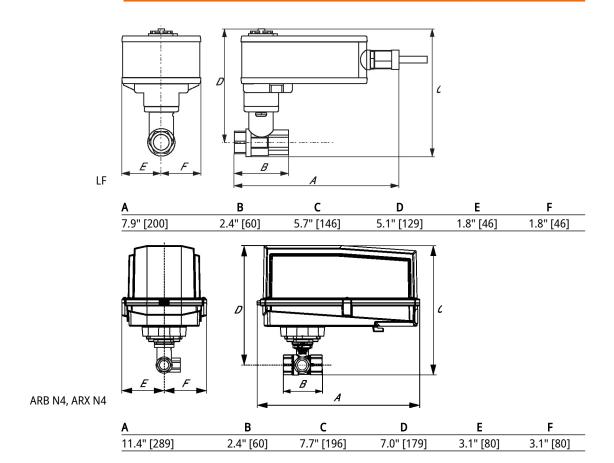
D

4.3" [110]

Ε

1.5" [39]







Technical data sheet LF24 US



Technical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 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, 1 m, with 1/2" conduit connector	
Functional data	Overload Protection	electronic throughout 095° rotation	
	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 @ -4122°F [-2050°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	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Servicing	maintenance-free	
Weight	Weight	3.2 lb [1.5 kg]	
Materials	Housing material	galvanized steel	

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

Electrical installation



A 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

