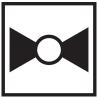




5-year warranty



Type overview

Туре	DN
B211	15

Technical data

Functional data	Valve size [mm]	0.5" [15]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	0250°F [-18120°C]	
	Body Pressure Rating	600 psi	
	Close-off pressure ∆ps	200 psi	
	Flow characteristic	equal percentage	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Leakage rate	0% for A – AB	
	Controllable flow range	75°	
	Cv	1.9	
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	
Suitable actuators	Non-Spring	TR	
		LRB(X)	
		NR	
	Spring	TFRB(X)	
		LF	

Safety notes



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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

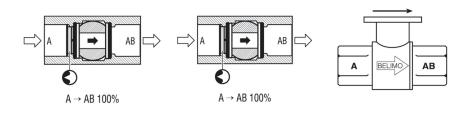
Application

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.



Technical data sheet

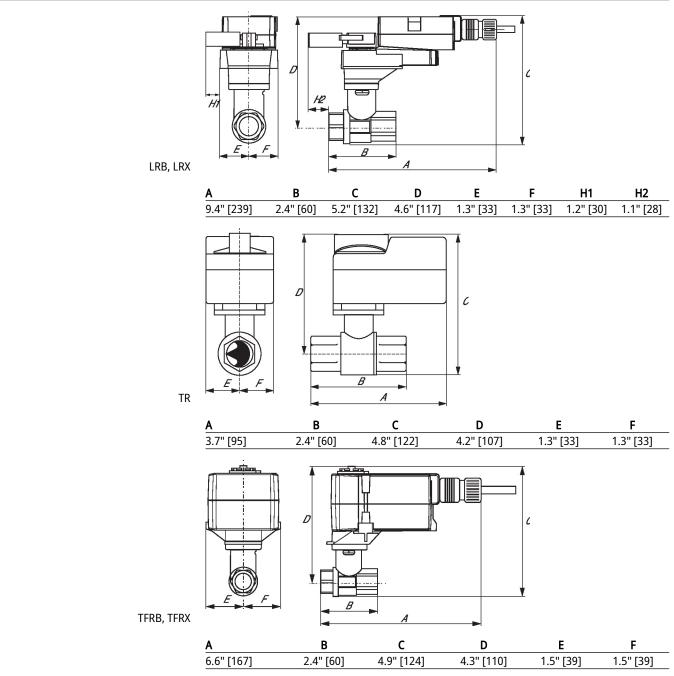
Flow/Mounting details



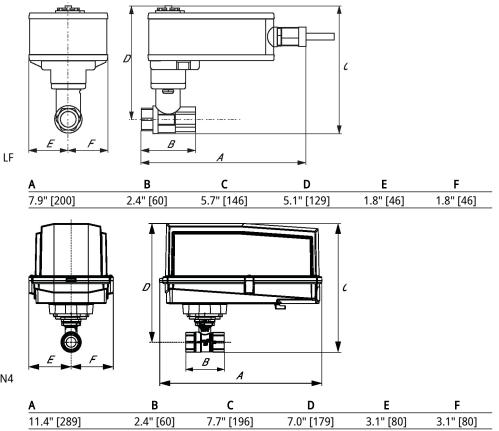
Two-way valves should be installed with the disc upstream.

Dimensions

Туре	DN	Weight
B211	15	0.44 lb [0.20 kg]







ARB N4, ARX N4, NRB N4, NRX N4



Modulating, Spring Return, Multi-Function Technology®

Technical data sheet

LF24-MFT US



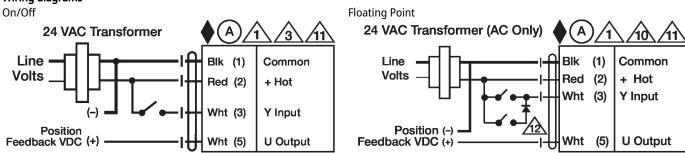
Technical data

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	2.5 W	
	Power consumption in rest position	1 W	
	Transformer sizing	5 VA	
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Input Impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point	
	Operating range Y variable	Start point 0.530 V End point 2.532 V	
	Operating modes optional	variable (VDC, on/off, floating point)	
	Position feedback U	210 V	
	Position feedback U note	Max. 0.5 mA	
	Position feedback U variable	VDC variable	
	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)	150 s / 90°	
	Running time motor variable	75300 s	
	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]	



	Safety data	/ data Servicing maintenance-free		
	Weight	Weight	3.3 lb [1.5 kg]	
	Materials	Housing material	galvanized steel	
	Footnotes	*Variable when configured with	MFT options.	
ccessories				
Electrical accessories	lectrical accessories	Description		Туре
		Service Tool, with ZIP-USB functi communicative Belimo actuators devices	on, for programmable and ;, VAV controller and HVAC performan	ZTH US ce
lectrical installation				
		 observed. 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. Actuators may also be powered by DC 24 V. Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc. Only connect common to negative (-) leg of control circuits. A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 V. Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line. For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible. Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed. IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155). Meets cULus requirements without the need of an electrical ground connection. Actuators are provided with color coded wires. Wire numbers are provided for reference. Warning! Live electrical components! During installation, testing, servicing and troubleshooting of this product, it may be necessa to work with live electrical components. Have a qualified licensed electrician or other individ 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 		

Wirin





Technical data sheet



