

2-way, Characterized Control Valve, Stainless Steel Ball and Stem







### Type overview

Туре	DN
B207	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 Δps	200 psi
	Flow characteristic	equal percentage
	Leakage rate	0% for A – AB
	Pipe connection	Internal thread
		NPT (female)
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	75°
	Cv	0.3
Materials	Valve body	Nickel-plated brass body
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	TEFZEL®
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non Fail-Safe	TR
		LRB(X)
		LRQB(X)
		NRB(X) N4
	Spring	TFRB(X)
		LF

#### Safety notes



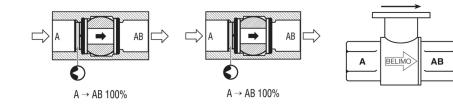
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



#### Product features

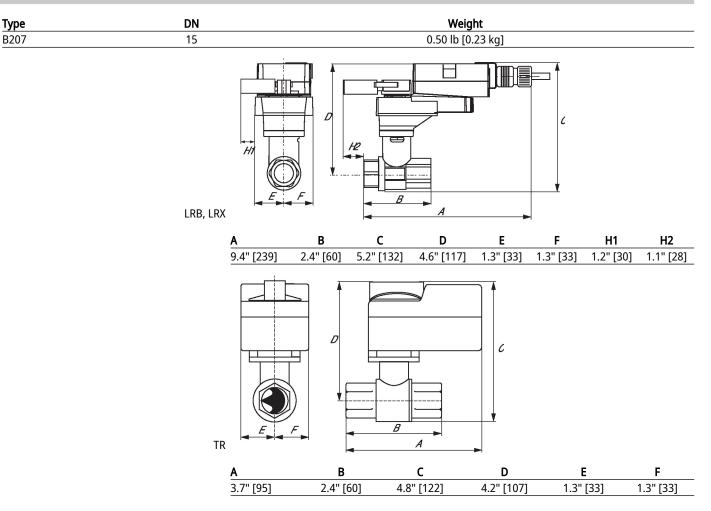
Application This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

#### Flow/Mounting details



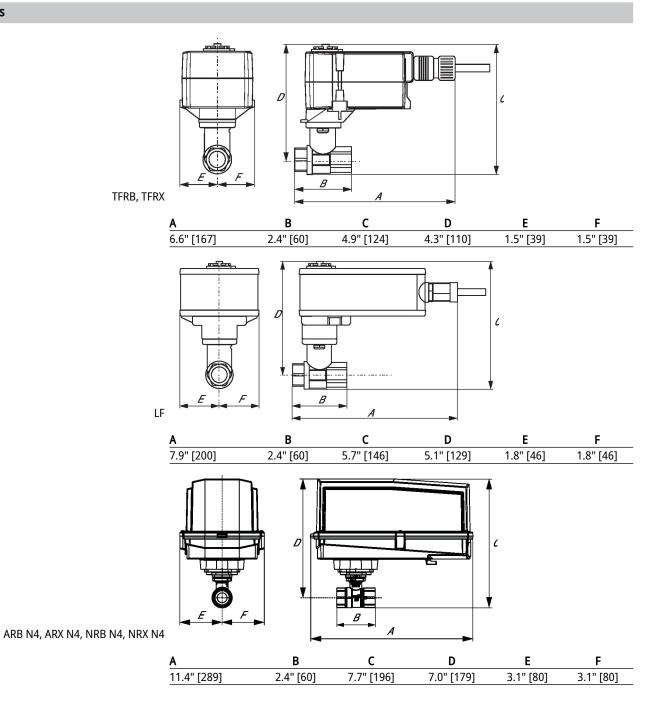
Two-way valves should be installed with the disc upstream.

### Dimensions











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





## **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	1.5 W
	Power consumption in rest position	0.2 W
	Transformer sizing	2 VA
	Electrical Connection	18 GA plenum cable, 1 m, 3 m, or 5 m with
		1/2" NPT conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic thoughout 090° 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 IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	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	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	1.0 lb [0.45 kg]
Materials	Housing material	Galvanized steel and plastic housing



# Technical data

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

Accessories				
Electrical accessories	Description	Туре		
	Battery backup system, for non-spring return models	NSV24 US		
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT		
	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				
Wiring diagrams	Provide overload protection and disconnect as required. Actuators may be connected in parallel. Power consumption and observed. Actuators may also be powered by DC 24 V. Actuators Hot wire must be connected to the control board commeng. (-) leg of control circuits. Terminal models (-T) have no-feed Actuators with plenum cable do not have numbers; use color coor Meets cULus requirements without the need of an electrical grou <b>Warning! Live electrical components!</b> During installation, testing, servicing and troubleshooting of this to work with live electrical components. Have a qualified licensed who has been properly trained in handling live electrical compor Failure to follow all electrical safety precautions when exposed to could result in death or serious injury.	non. Only connect common to back. les instead. and connection. product, it may be necessary d electrician or other individual nents perform these tasks.		
On/Off				
24 VAC Transformer	1 2 3 18 24 VAC Transformer	1/2/3/18		
		Blk (1) Common		
	d (2) + Hot Volts -         -	Red (2) + Hot		
-   ,				
	t (3) Y Input	Wht (3) Y Input		



### **Electrical installation**



