

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



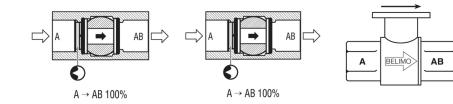
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



#### Product features

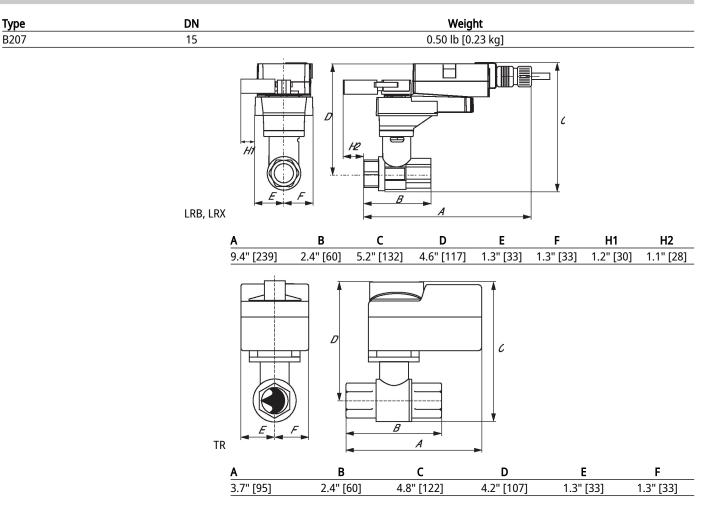
Application This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

### Flow/Mounting details



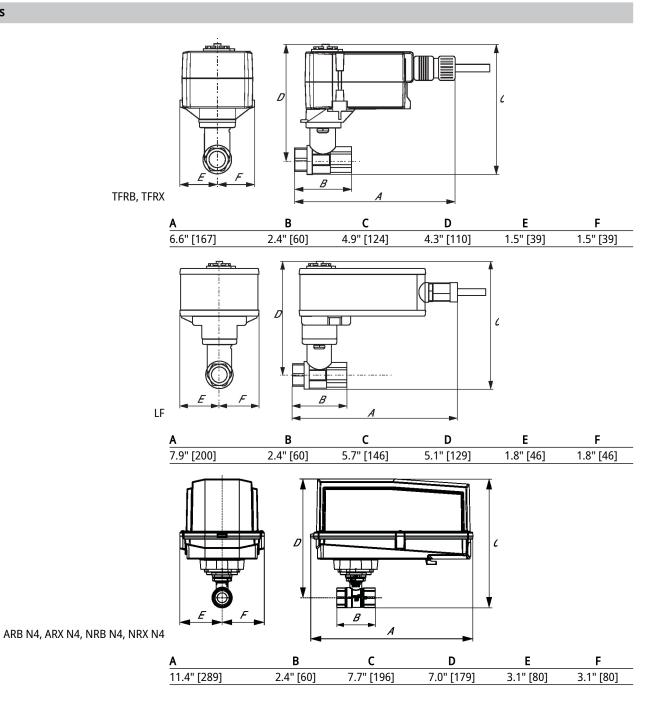
Two-way valves should be installed with the disc upstream.

## 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	2 W
	Power consumption in rest position	0.2 W
	Transformer sizing	4 VA
	Electrical Connection	Screw terminal (for 26 to 14 GA wire), 1/2" NPT conduit connector
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	90 s / 90°
	Noise level, motor	45 dB(A)
	Position indication	pointer
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	1.7 lb [0.79 kg]
Materials	Housing material	Die cast aluminium and plastic casing

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



Accessories		
Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models Battery, 12 V, 1.2 Ah (two required) Auxiliary switch 1x SPDT add-on Auxiliary switch 2x SPDT add-on Feedback potentiometer 140 $\Omega$ add-on, grey Feedback potentiometer 1 k $\Omega$ add-on, grey Feedback potentiometer 10 k $\Omega$ add-on, grey Feedback potentiometer 2.8 k $\Omega$ add-on, grey Feedback potentiometer 500 $\Omega$ add-on, grey Feedback potentiometer 5 k $\Omega$ add-on, grey	Type   NSV24 US   NSV-BAT   S1A   S2A   P140A GR   P1000A GR   P1000A GR   P2800A GR   P500A GR   P500A GR   P5000A GR   P5000A GR   P5000A GR   P5000A GR
Factory add-on option only	Factory add-on option only Description	
	Heater, with adjustable thermostat	ACT_PACK_H
Electrical installation		
	+ Hot	on. Only connect common to ck. ad of a cable. d connection. roduct, it may be necessary lectrician or other individual nts perform these tasks.



## **Electrical installation**



