

# **Technical data sheet**

# B215HT073

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





## Type overview

Туре	DN
B215HT073	15

### **Technical data**

Functional data	Valve size [mm]	0.5" [15]	
	Fluid	high temperature hot water/low pressure	
		steam, up to 60% glycol	
	Fluid Temp Range (water)	60266°F [16130°C]	
	Fluid Temp Range (steam)	250°F [120°C]	
	Body Pressure Rating	600 psi	
	Close-off pressure ∆ps	200 psi	
	Flow characteristic	equal percentage	
	Pipe connection	Internal thread	
		NPT (female)	
	Servicing	maintenance-free	
	Max Differential Pressure (Steam)	15 psi	
	Flow Pattern	2-way	
	Leakage rate	0%	
	Controllable flow range	75°	
	Cv	0.73	
	Maximum Inlet Pressure (Steam)	15 psi	
Materials	Valve body	Nickel-plated brass (DZR) P-CuZn35Pb2	
	Stem	stainless steel	
	Stem seal	Vition O-ring	
	Seat	ETFE	
	Characterized disc	ETFE	
	O-ring	EPDM (lubricated)	
	Ball	stainless steel	
Suitable actuators	Non Fail-Safe	TR	
		LRB(X)	
	Spring	TFRB(X)	

# Safety notes



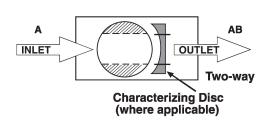
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

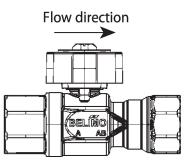


### Product features

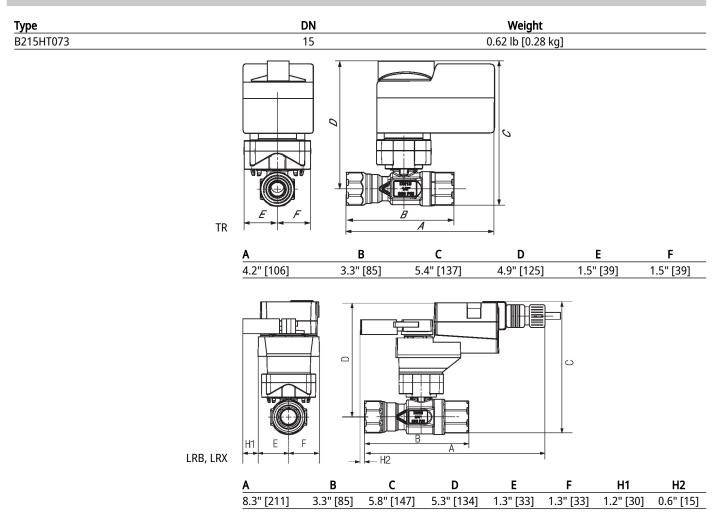
ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit<br/>heating or cooling coils. Some other common applications include unit ventilators, VAV box re-<br/>heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.<br/>This valve is designed to fit in compact areas where on/off, floating point and modulating<br/>control is required using 24 VAC.

#### Flow/Mounting details



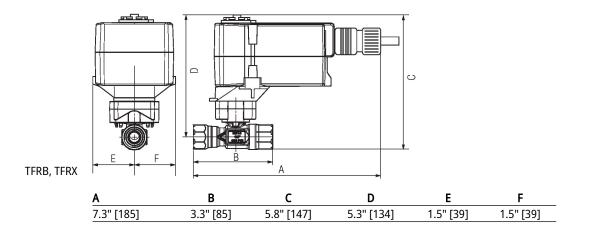


#### Dimensions











**Technical data sheet** 

LRB2<u>4-3-S</u>

5-year warranty

CE



# **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	2.5 VA	
	Auxiliary switch	1x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 0100%	
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
	Electrical Connection	18 GA plenum cable, 1 m, with 1/2" NPT conduit connector	
	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 and 2014/35/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	1.3 lb [0.60 kg]	
Materials	Housing material	Galvanized steel and plastic housing	

Footnotes TRated Impulse Voltage 800V, Type action 1, 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	NSV24 US NSV-BAT S1A S2A P140A GR P1000A GR P10000A GR P2800A GR P500A GR P500A GR
Electrical installation	1	
	<ul> <li>INSTALLATION NOTES</li> <li>Provide overload protection and disconnect as required.</li> <li>Actuators may be connected in parallel. Power consumptions observed.</li> <li>Actuators may also be powered by DC 24 V.</li> <li>Actuators Hot wire must be connected to the control boarneg. (-) leg of control circuits. Terminal models (-T) have Actuators with plenum cable do not have numbers; use of One built-in auxiliary switch (1x SPDT), for end position in etc.</li> <li>Apply only AC line voltage or only UL-Class 2 voltage to the Mixed or combined operation of line voltage/safety extra Meets cULus requirements without the need of an electrical Maring! Live electrical components. Have a qualified who has been properly trained in handling live electrical Failure to follow all electrical safety precautions when excould result in death or serious injury.</li> </ul>	tion and input impedance must be ard common. Only connect common to no-feedback. color codes instead. ndication, interlock control, fan startup he terminals of auxiliary switches. a low voltage is not allowed. ical ground connection. ng of this product, it may be necessary licensed electrician or other individual components perform these tasks.
Wiring diagrams         On/Off         24 VAC Transformer	Floating Point <b>1</b> 2 3 18 <b>24 VAC Transforme</b>	r
Volts	(1) Common (2) + Hot t (3) Y Input	Blk (1) Common Red (2) + Hot Wht (3) Y Input
Floating Point - Triac Source 24 VAC Transformer	Floating Point - Triac Sink <b>24 VAC Transformer</b>	
	Line Volts	6 Bik (1) Common Red (2) + Hot Wht (3) Y Input



