

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



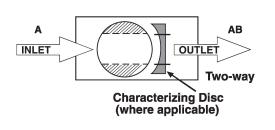
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

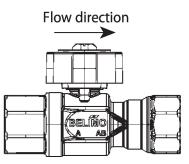


Product features

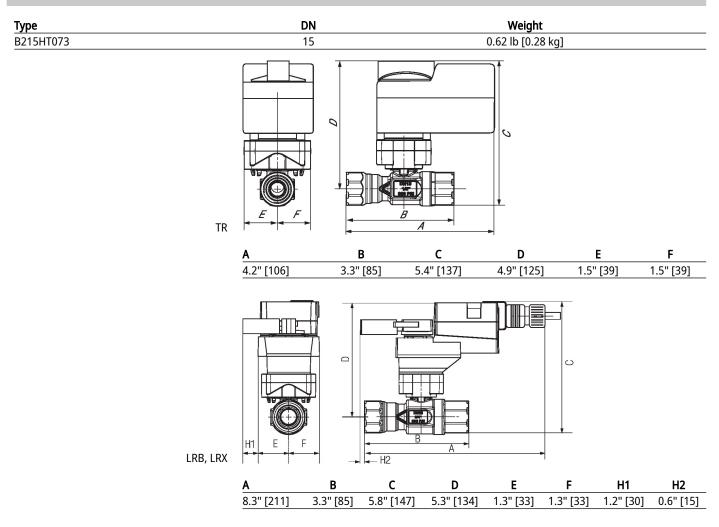
ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include unit ventilators, VAV box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.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

Flow/Mounting details



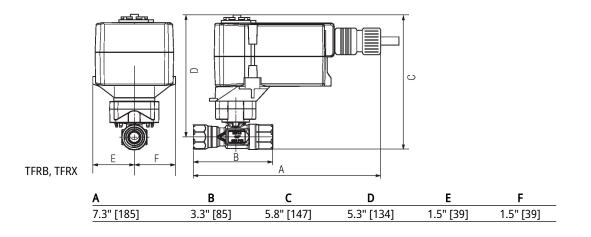


Dimensions











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 Ω add-on, grey Feedback potentiometer 1 k Ω add-on, grey Feedback potentiometer 10 k Ω add-on, grey Feedback potentiometer 2.8 k Ω add-on, grey Feedback potentiometer 500 Ω add-on, grey Feedback potentiometer 5 k Ω add-on, grey	NSV24 US NSV-BAT S1A S2A P140A GR P1000A GR P10000A GR P2800A GR P500A GR P500A GR
Electrical installation	1	
	 INSTALLATION NOTES Provide overload protection and disconnect as required. Actuators may be connected in parallel. Power consumptions observed. Actuators may also be powered by DC 24 V. 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. 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. 	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 1 2 3 18 24 VAC Transforme	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 24 VAC Transformer	
	Line Volts	6 Bik (1) Common Red (2) + Hot Wht (3) Y Input



