B2...HT... Two-way High Temperature Characterized Control Valve Stainless Steel Ball and Stem





Application

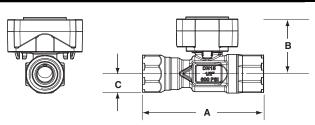
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

This valve is designed to fit in compact areas where on/off or floating point control is required using 24 VAC.

Service	water/low pressure steam, 60% glycol
low characteristic	A-port equal percentage
Sizes	1⁄2", 3⁄4", 1"
ype of end fitting	female, NPT
/laterials:	
Body	brass (DZR) P-CuZn35Pb2
Ball	stainless steel
Stem	stainless steel
Seats	PTFE Teflon
Characterizing disc	PTFE Teflon
Packing	2 EPDM O-rings
ressure rating	600 psi
/ledia temperature range	
Steam	250°F (15 psig)
Hot water	37°F - 266°F
Close off pressure	200 psi
Aaximum differential	116 psi full open ball
pressure (ΔP)	60 psi partially open ball
eakage	bubble tight 0%

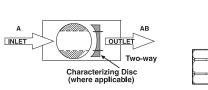
	Valve Nominal Size		Туре	Suitable Actuators			S	
Cv	Inches	DN [mm]	2-way NPT	Spring		Non-S	Non-Spring	
0.29	1/2	15	B215HT029					
0.46	1/2	15	B215HT046					
0.73	1/2	15	B215HT073	ies		ies		
1.16	1/2	15	B215HT116	Series		TR Series		
1.86	1/2	15	B215HT186	Ë		Ш		
2.90	1/2	15	B215HT290					
4.55	1/2	15	B215HT455*					
1.86	3⁄4	20	B220HT186					
2.90	3⁄4	20	B220HT290					
4.64	3⁄4	20	B220HT464					
7.31	3⁄4	20	B220HT731					
9.28	3⁄4	20	B220HT928		ies		LR Series	
13.20	3⁄4	20	B220HT1320		LF Series		Ser	
4.64	1	25	B225HT464		Ë.		LB	
7.31	1	25	B225HT731					
11.6	1	25	B225HT1160					
18.56	1	25	B225HT1856					
28.00	1	25	B225HT2800					

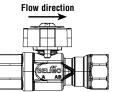
Dimensions



	Valve Nominal Size		Dimensions (Inches [mm])			
Valve Body	Inches	DN [mm]	Α	В	C	
B215HT	1⁄2"	15	3.33" [84.6]	2.09" [53.2]	0.53" [13.5]	
B220HT	3/4"	20	3.96" [100.6]	2.37" [60.1]	0.67" [17.0]	
B225HT	1"	25	5.14" [130.6]	3.14" [79.8]	0.92" [23.25]	

Flow Patterns





* modified equal percentage

HTCCV_DimAB







Dimensions with 2-Way Valve D193 3.25 [82.6] 2.50 [63.5] 2.82 [71.6] в С D. 1 Α

Models	
TR24-3 US	

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lechnical Data	
Control	On/Off, Floating Point
Input impedance	.36 kΩ
Nominal voltage	24 VAC 50/60 Hz
Nominal voltage range	19.228.8 VAC
Power consumption	1 W
Transformer sizing	1VA (class 2 power source)
Electrical connection	screw terminals accessible after removal of small cover (3 ft, 10 ft, 16 ft cables optional)
Angle of rotation	90°
Position indication	integrated into handle
Manual override	push down handle
Running time	90 seconds @ 60 hz, 108 seconds @ 50 hz
Humidity	5 to 95% non-condensing
Ambient temperature	-22°F to 122°F (-30°C to 50°C)
Storage temperature	-40°F to 176°F (-40°C to 80°C)
Housing	NEMA 1/IP40
Housing rating	UL94-5V(B)
Agency listing†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1, CSA C22.2 No. 24-93, CE acc. to 89/336/EEC
Noise level	Max. 35 db (A)
Quality standard	ISO 9001
+ Pated impulse voltage 330V. Cor	trol pollution degree 2. Type of action 1

† Rated impulse voltage 330V, Control pollution degree 2, Type of action 1

	Valve Nominal Size		Dimensions (Inches [mm])		
Valve Body	Inches	DN [mm]	Α	В	C
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TR24-3 Actuators, On-Off, Floating Point

Wiring Diagrams

🔀 INSTALLATION NOTES

The common connection from the actuator must be /2\

connected to the Hot connection of the controller.

Actuators with plenum rated cable do not have numbers on wires; /3\ use color codes instead.

∕4∖ The actuator Hot must be connected to the control board Hot.

WARNING Live Electrical Components!

MARINING LIVE Electrical components. During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual 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 could result in death or serious injury.

NOTE: TR24-3 US cannot be wired in parallel with themselves or any other actuator.

