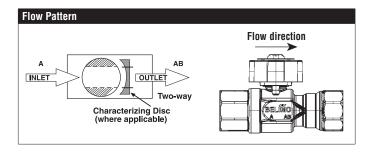
B215HT455, 1/2", High Temperature CCV Stainless Steel Ball and Stem





Technical Data	
Service	high temperature hot water/low pressure
	steam, up to 60% glycol
Flow Characteristic	A-port equal percentage
Controllable Flow Range	75°
Size [mm]	0.5" [15]
End Fitting	NPT female ends
Body	nickel plated brass (DZR) P-CuZn35Pb2
Ball	stainless steel
Stem	stainless steel
Stem Packing	Vition O-ring
Seat	ETFE
Seat O-ring	EPDM (lubricated)
Characterized Disc	ETFE
Body Pressure Rating [psi]	600
Max Inlet Pressure (Steam)	15 psi
Media Temperature Range	60°F to 266°F [16°C to 130°C]
(Water)	
Media Temperature Range	250°F [120°C]
(Steam) Maximum Differential Pressure	45:
(Steam)	15 psi
Max Differential Pressure (Water)	60 psi partially open ball, 116 psi full open
wax binerential Fressure (water)	(#B215HT455)
Close-Off Pressure	200 psi
Cv	4.55
Weight	0.7 lb [0.3 kg]
Leakage	0%
Servicing	maintenance free



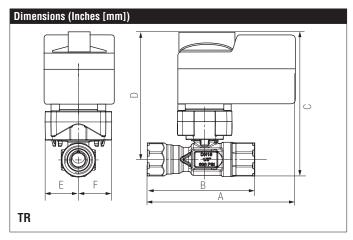
Application

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, floating point and modulating control is required using 24 VAC.

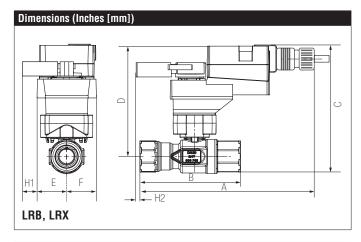
Suitable Actuators

ountable flotation					
	Non-Spring	Spring			
B215HT455	TR, LR	TFR			

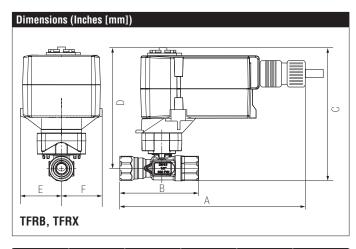


А	В	С	D	Е	F
4.16" [106]	3.33" [85]	5.44" [138]	4.91" [125]	1.48	" [38]





Α	В	С	D	E	F	H1	H2
8.32"	3.33"	5.8"	5.3"	1.48	" [38]	1.18"	0.5" [15]
[211]	[85]	[147]	[135]			[30]	



A	В	С	D	Е	F
7.32" [186]	3.33" [85]	5.8" [147]	5.3" [135]	1.52" [39]	1.52" [38.5]

TFRB24-3 Floating Point, Spring Return, 24 V





Technical Data			
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%		
Power Consumption Running	2.5 W		
Power Consumption Holding	1 W		
Transformer Sizing	4 VA (class 2 power source)		
Electrical Connection	3ft [1m], 18 GA plenum cable with 1/2"		
	conduit connector		
Overload Protection	electronic throughout 0° to 95° rotation		
Input Impedance	1000 Ω (0.6 W)		
Feedback Output U	No Feedback		
Angle of Rotation	Max. 95°, 90°		
Direction of Rotation (Motor)	reversible with built-in switch		
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting		
Position Indication	visual indicator, 0° to 95° (0° is full spring		
	return position)		
Running Time (Motor)	95 sec		
Running Time (Fail-Safe)	<25 sec		
Ambient Humidity	max. 95% RH non-condensing		
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]		
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]		
Housing	NEMA 2, IP42, UL Enclosure Type 2		
Housing Material	UL94-5VA		
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA		
	E60730-1:02, CE acc. to 2004/108/EC		
Noise Level (Motor)	<35 dB (A)		
Noise Level (Fail-Safe)	<62 dB (A)		
Servicing	maintenance free		
Quality Standard	ISO 9001		
Weight	1.8 lb [0.8 kg]		
Degree of Protection IEC/EN	IP54		

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3







Wiring Diagrams



X INSTALLATION NOTES



Provide overload protection and disconnect as required.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



Actuators with plenum cable do not have numbers; use color codes



Meets cULus requirements without the need of an electrical ground connection.



WARNING! 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.

