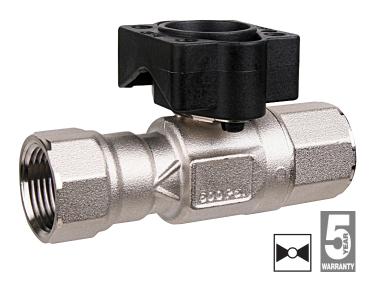
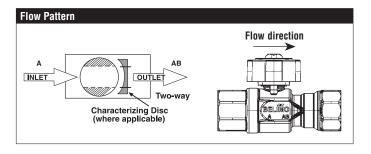
# **B215HT186**, 1/2", High Temperature CCV Stainless Steel Ball and Stem





Technical Data	
Service	high temperature hot water/low pressure
001 V100	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 (Water)	60°F to 266°F [16°C to 130°C]
Media Temperature Range (Steam)	250°F [120°C]
Maximum Differential Pressure (Steam)	15 psi
Max Differential Pressure (Water)	60 psi partially open ball, 116 psi full open
Close-Off Pressure	200 psi
Cv	1.86
Weight	0.7 lb [0.3 kg]
Leakage	0%
Servicing	maintenance free



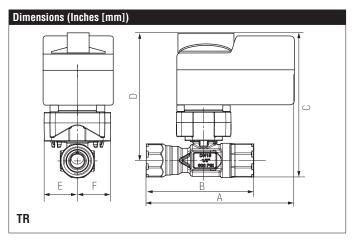
# **Application**

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.

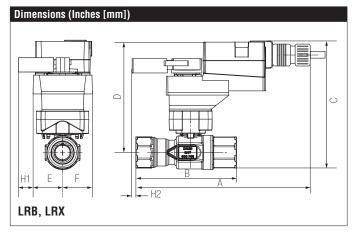
This valve is designed to fit in compact areas where on/off, floating point and modulating control is required using 24 VAC.

#### **Suitable Actuators**

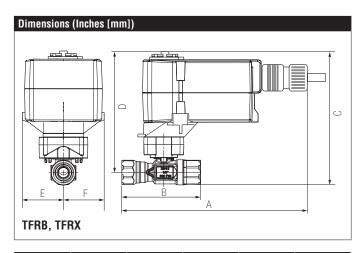
	Non-Spring	Spring		
B215HT186	TR, LR	TFR		



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



1	А	В	С	D	E	F	H1	H2
Ī	8.32"	3.33"	5.8"	5.3"	1.3"	[33]	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]







24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%			
2 W			
1 W			
4 VA (class 2 power source)			
3ft [1m], 18 GA plenum cable with 1/2" conduit connector			
electronic throughout 0° to 95° rotation			
2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)			
100 k $\Omega$ for 2 to 10 VDC (0.1 mA), 500 $\Omega$ for 4 to 20 mA			
2 to 10 VDC, 0.5 mA max			
Max. 95°, 90°			
reversible with built-in switch			
reversible with CW/CCW mounting			
visual indicator, 0° to 95° (0° is full spring return position)			
95 sec			
<25 sec			
max. 95% RH non-condensing			
-22°F to 122°F [-30°C to 50°C]			
-40°F to 176°F [-40°C to 80°C]			
NEMA 2, IP42, UL enclosure type 2			
UL94-5VA			
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC			
<35 dB (A)			
<62 dB (A)			
maintenance free			
ISO 9001			
1.8 lb [0.8 kg]			

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





### Modulating, Spring Return, 24 VAC for 2 to 10 VDC or 4 to 20 mA Control Signal

#### Wiring Diagrams



# 💢 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.



A 500  $\Omega$  resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

Only connect common to negative (-) leg of control circuits.



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.

