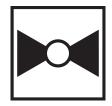
# **Technical data sheet**

B215HT290





5-year warranty



### **Technical data**

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Valve Size	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 Δps	200 psi
Flow characteristic	A-port equal percentage
Servicing	maintenance-free
Max Differential Pressure (Steam)	15 psi
Flow Pattern	2-way
Leakage rate	0%
Controllable flow range	75°
Cv	2.9
Maximum Inlet Pressure (Steam)	15 psi
Body pressure rating note	600 psi

#### Materials

Valve body	Nickel-plated brass (DZR) P-CuZn35Pb2
Stem	stainless steel
Stem seal	Vition O-ring
Seat	ETFE
Characterizing disk	ETFE
Pipe connection	NPT female ends
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	TR LRB(X)
Spring	TFRB(X)





Suitable actuators

• 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

Safety notes



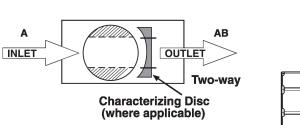
#### **Product features**

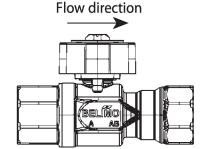
# Application

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 reheat 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.

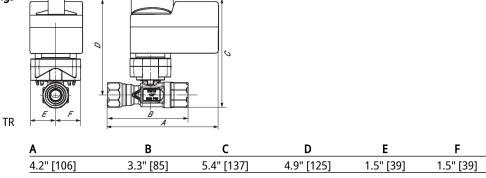
### Flow/Mounting details

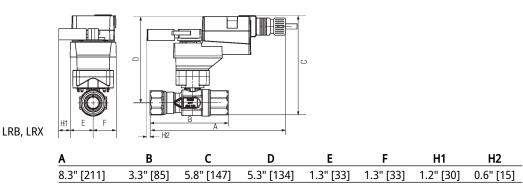


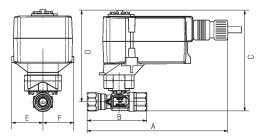


#### **Dimensions**









TFRB, TFRX

Α	В	С	D	E	F
7.3" [185]	3.3" [85]	5.8" [147]	5.3" [134]	1.5" [39]	1.5" [39]









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Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	1.3 W
	Transformer sizing	5 VA (class 2 power source)
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	Max. 95°, 90°
	Angle of rotation note	90°
	Running Time (Motor)	75 s
	Running time fail-safe	<75 s
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	50 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP42
	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 Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Weight	Weight	1.6 lb [0.80 kg]
Materials	Housing material	UL94-5VA

## **Electrical installation**



INSTALLATION NOTES
Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.



**Technical data sheet TFRB120** 

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



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.

# Wiring diagrams On/Off 100 to 240 VAC Neutral Volts Load