Date created, 10/07/2016 - Subject to change. © Belimo Aircontrols (USA), Inc.

B214B, 2-Way, Characterized Control Valve Chrome Plated Brass Ball and Nickel Plated Brass Stem







WARRANT
WARRANT

	Technical Data				
Service		chilled, hot water, up to 60% glycol			
	Flow Characteristic	equal percentage			
	Controllable Flow Range	75°			
	Size [mm]	0.5" [15]			
	End Fitting	NPT female ends			
-	Body	forged brass, nickel plated			
	Ball	chrome plated brass			
	Stem	nickel plated brass			
	Stem Packing	EPDM (lubricated)			
	Seat	Teflon® PTFE			
	Seat O-ring	EPDM (lubricated)			
	Characterized Disc	TEFZEL®			
	Body Pressure Rating [psi]	600			
	Media Temperature Range	0°F to 250°F [-18°C to 120°C]			
	(Water)				
	Max Differential Pressure (Water)	50 psi (345 kPa)			
	Close-Off Pressure	200 psi			
	Cv	7.4			
	Weight	0.7 lb [0.3 kg]			
	Leakage	0% for A to AB			
	Servicing	maintenance free			



Application

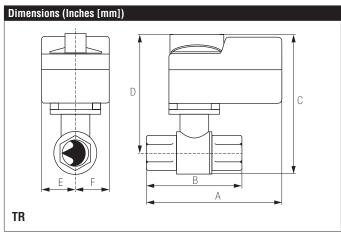
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

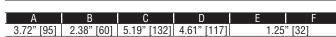
Suitable Actuators

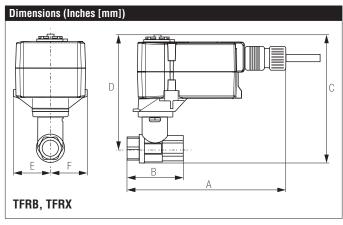
	Non-Spring	Spring
B214B	TR, LR	TFR, LF



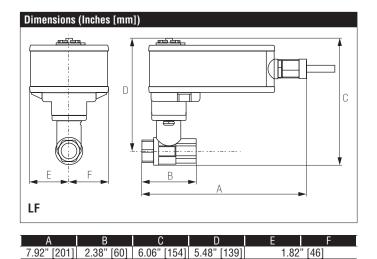
А	В	С	D	Е	F	H1	H2
9.4"	2.38"	5.58"	5" [127]	1.3"	[33]	1.18"	1.1" [28]
[239]	[60]	[142]				[30]	







Α	В	С	D	E	F
6.59" [167]	2.38" [60]	5.48" [139]	4.71" [120]	1.53	" [38]



TR24-3 US On/Off Floating Point, Non-Spring Return, 24 V





24 VAC ± 20%, 50/60 Hz
1 W
1 VA (class 2 power source)
3ft [1m], 18 GA plenum rated cable
electronic throughout full rotation
0.36 k Ω
90°
integrated into handle
push down handle
90 sec
-22°F to 122°F [-30°C to 50°C]
-40°F to 176°F [-40°C to 80°C]
NEMA type 1 / IP40
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)
maintenance free
ISO 9001

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



Wiring Diagrams



💢 INSTALLATION NOTES



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



Actuators cannot be wired in parallel.



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.

