B207B

Chrome Plated Brass Ball and Nickel Plated Brass Stem







Technical data

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Valve Size	0.5" [15]	
Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	0250°F [-18120°C]	
Body Pressure Rating	600 psi	
Close-off pressure Δps	200 psi	
Flow characteristic	equal percentage	
Servicing	maintenance-free	
Flow Pattern	2-way	
Leakage rate	0% for A – AB	
Controllable flow range	75°	
Cv	0.3	
Body pressure rating note	600 psi	
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv	
Valve body	Nickel-plated brass body	
Stem seal	EPDM (lubricated)	
Seat	PTFE	
Pipe connection	NPT female ends	
O-ring	EPDM (lubricated)	
Ball	chrome plated brass	

Safety notes



Suitable actuators

Non-Spring

Materials

 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

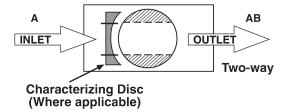
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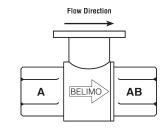
Product features

Application

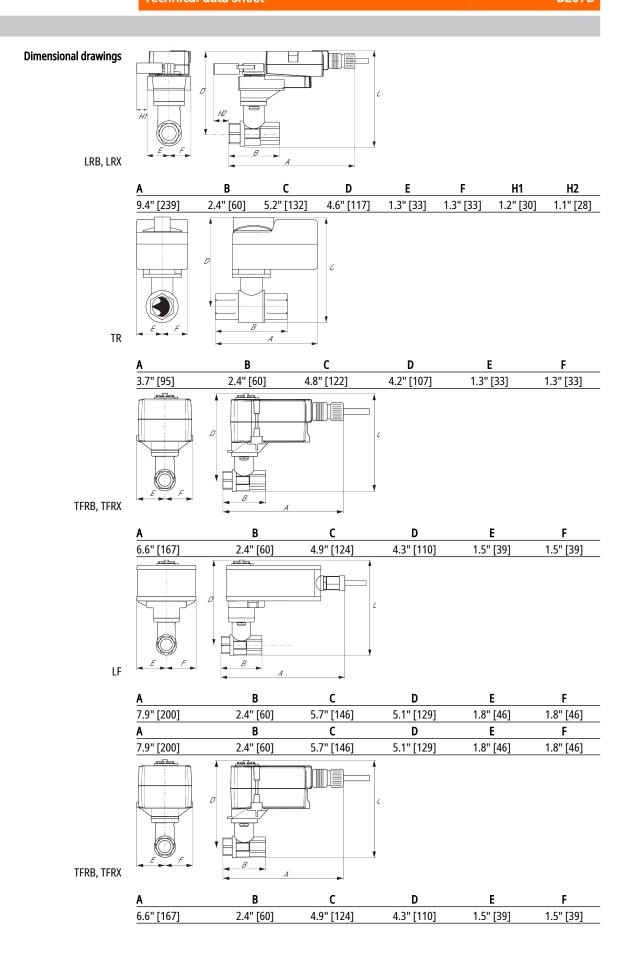
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details

















Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2 W
	Power consumption in rest position	1.3 W
	Transformer sizing	5 VA (class 2 power source)
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit

Functional data

Overload Protection

Position feedback U note	No Feedback
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

connectors, 3 ft [1 m],

electronic throughout 0...95° rotation

Safety data

IP42	
NEMA 2 UL Enclosure Type 2	
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU	
ISO 9001	
-22122°F [-3050°C]	
-40176°F [-4080°C]	
max. 95% r.H., non-condensing	
maintenance-free	
1.8 lb [0.80 kg]	

UL94-5VA

Electrical installation



Weight

Materials

X INSTALLATION NOTES

Housing material

Actuators with appliance cables are numbered.

1 Provide overload protection and disconnect as required.



Technical data sheet TFRB24-S

Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by 24 VDC.

0ne built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

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. Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or

combined operation of line voltage/safety extra low voltage is not allowed.

