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	0.46
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

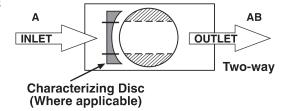
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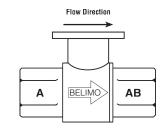
Product features

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.

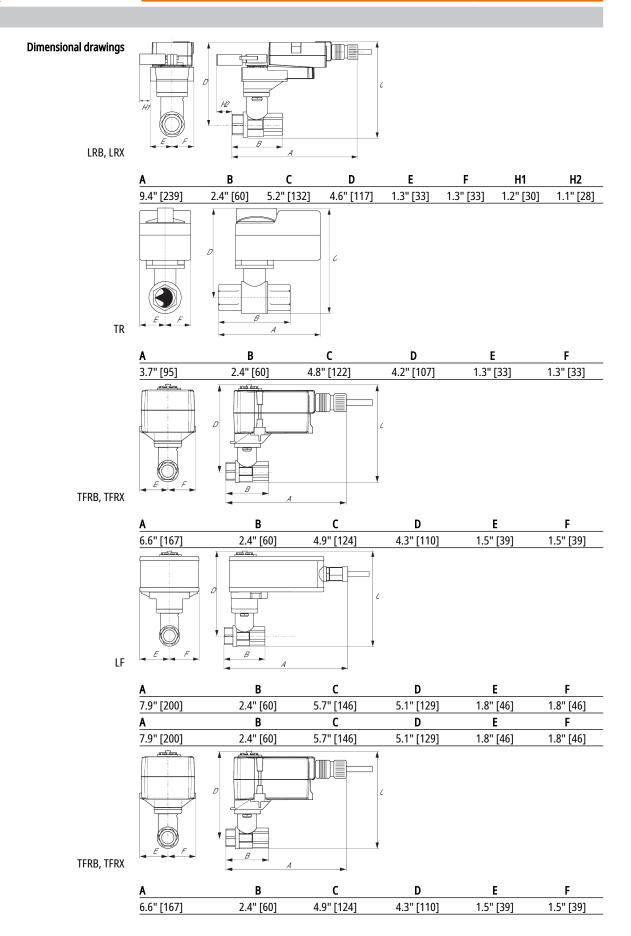
Flow/Mounting details







Dimensions









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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	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		
Safety data	Degree of protection IEC/EN	IP42		
	Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2		
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU		
	Quality Standard	ISO 9001		
	Ambient temperature	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Ambient humidity	max. 95% r.H., non-condensing		
	Servicing	maintenance-free		
Weight	Weight	1.6 lb [0.80 kg]		
Materials	Housing material	UL94-5VA		

Electrical installation



> INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

 $\overline{\uparrow}$ Provide overload protection and disconnect as required.

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

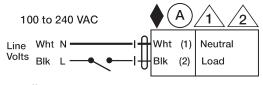
Meets cULus requirements without the need of an electrical ground connection.

Narning! Live Electrical Components!



Technical data sheet TFRB120

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.



On/Off