

Chrome Plated Brass Ball and Nickel Plated Brass Stem





5-year warranty



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
Body pressure rating note	600 psi
Close-off pressure Δps	200 psi
Flow characteristic	A-port Equal percentage; B-port modified linear for constant flow
Servicing	maintenance-free
Flow Pattern	3-way Mixing/Diverting
Leakage rate	0% for A – AB, <2.0% for B – AB
Controllable flow range	75°
Cv	4.7
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Valve body	Nickel-plated brass body
Stem	nickel-plated brass
Stem seal	EPDM (lubricated)
Seat	PTFE
Characterizing disk	TEFZEL®
Pipe connection	NPT female ends
O-ring	EPDM (lubricated)
Ball	chrome plated brass
Non-Spring	TR LRB(X)
Spring	TFB(X) LF

Safety notes



Suitable actuators

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

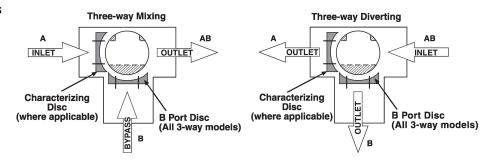
Product features

Application

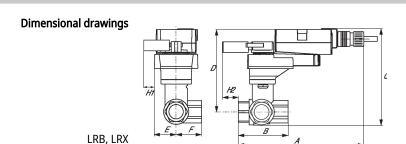
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



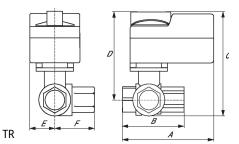
Flow/Mounting details



Dimensions

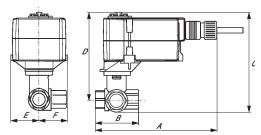


Type DN Weight [kg] [kg] B313B 15 0.30 Ε В C D H1 H2 1.1" [28] 8.5" [216] 2.4" [60] 5.2" [132] 5.0" [127] 1.3" [33] 1.3" [33] 1.2" [30]



 A
 B
 C
 D
 E
 F

 3.7" [95]
 2.4" [60]
 5.2" [132]
 4.6" [117]
 1.3" [33]
 1.3" [33]

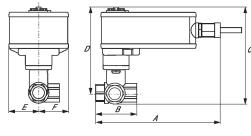


TFRB, TFRX

LF

 A
 B
 C
 D
 E
 F

 6.6" [167]
 2.4" [60]
 4.9" [124]
 4.7" [120]
 1.5" [39]
 1.3" [33]



 A
 B
 C
 D
 E
 F

 7.9" [200]
 2.4" [60]
 6.1" [154]
 5.5" [140]
 1.8" [46]
 1.9" [48]

On/Off, Floating Point, Non-Spring Return, 24 v







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Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	1.5 W	
	Power consumption in rest position	0.2 W	
	Power consumption for wire sizing	2 VA	
	Transformer sizing	2.5 VA (class 2 power source)	
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Direction of motion motor	selectable with switch 0/1	
	Manual override	external push button	
	Angle of rotation	90°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	90 s	
	Noise level, motor	35 dB(A)	
	Position indication	Mechanically, pluggable	
Safety data	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 1	
	Enclosure	UL Enclosure Type 1	
	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	1.1 lb [0.50 kg]	



Accessories

Electrical accessories	Description	Туре	
	Battery backup system, for non-spring return models	NSV24 US	
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT	
	Auxiliary switch 1 x SPDT add-on	S1A	
	Auxiliary switch 2 x SPDT add-on	S2A	
	Feedback potentiometer 140 Ω add-on, grey	P140A GR	
	Feedback potentiometer 1 kΩ add-on, grey	P1000A GR	
	Feedback potentiometer 10 kΩ add-on, grey	P10000A GR	
	Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR	
	Feedback potentiometer 500 Ω add-on, grey	P500A GR	
	Feedback potentiometer 5 $k\Omega$ add-on, grey	P5000A GR	

Electrical installation

X INSTALLATION NOTES

\Lambda 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 DC 24 V.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

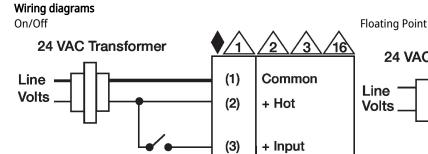
Actuators are provided with a numbered screw terminal strip instead of a cable.

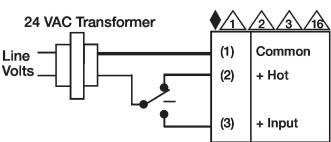
Floating Point - Triac Sink

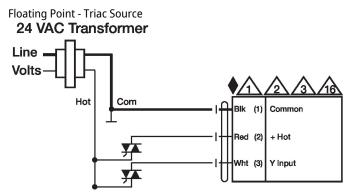
Meets cULus requirements without the need of an electrical ground connection.

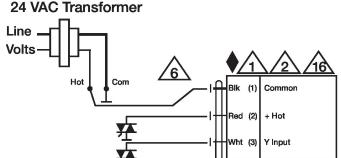
Warning! Live electrical components!

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.









Installation notes

Servicing



Dimensions