

3-way Mixing/Diverting, Characterized Control Valve, Stainless Steel Ball and Stem









		Picture may differ from product	
Type overview			
Туре			DN
B315		1/2" [15]	
Technical data			
	Functional data	Valve size [mm]	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 ∆ps	200 psi
		Flow	A-port: as stated in chart B-port: 70% of A – AB Cv
		Flow characteristic	A-port equal percentage, B-port modified for constant common port flow
		Leakage rate	0% for A – AB, <2.0% for B – AB
		Pipe connection	Internal thread
			NPT (female)
		Servicing	maintenance-free
		Flow Pattern	3-way Mixing/Diverting

Controllable flow range

Materials

Suitable actuators

Cv	10
Valve body	Nickel-plated brass body
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
Characterized disc	TEFZEL®
O-ring	EPDM (lubricated)
Ball	stainless steel
Non Fail-Safe	TR LRB(X) LRQB(X) NRB(X) N4

75°

Safety notes



Spring

• 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

TFRB(X)

LF



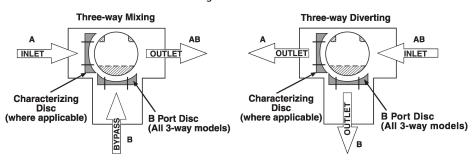
Product features

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 or constant flow.

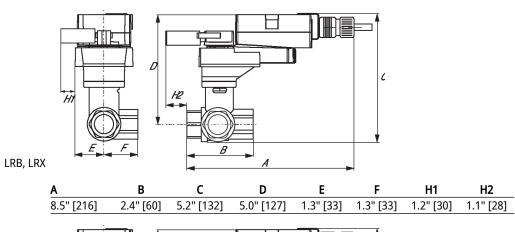
Flow/Mounting details

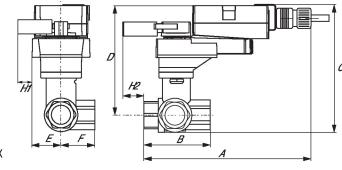
This valve is not suitable for use as a change over valve.



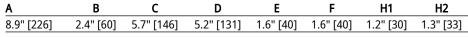
Dimensions

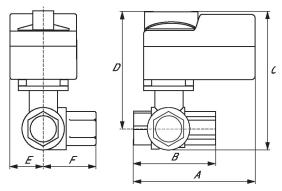
Туре	DN	Weight
R315	1/2" [15]	0.71 lb [0.32 kg]





LRQB, LRQX

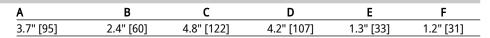


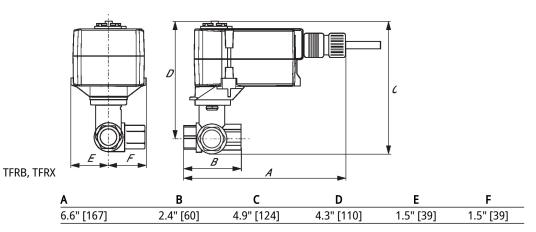


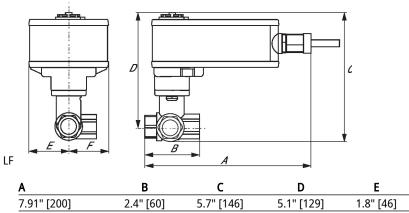
TR

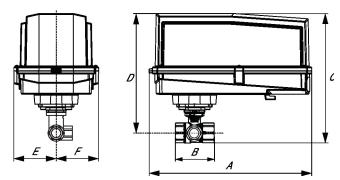


Dimensions









ARB N4, ARX N4

Α	В	С	D	E	F
11.4" [289]	2.4" [60]	7.2" [184]	6.7" [169]	3.1" [80]	3.1" [80]

1.8" [46]



On/Off, Floating point, Non fail-safe, 24 V





5-year warranty





Technical data		
Electrical data	Nominal voltage	AC/DC 24 V
Licetifedi data	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.2 W
	Transformer sizing	2.5 VA
	Electrical Connection	Screw terminal (for 2614 AWG wire)
	Overload Protection	electronic thoughout 090° rotation
	Electrical Protection	actuators are double insulated
	Electrical Frotection	actuators are double insulated
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 / 90°
	Noise level, motor	35 dB(A)
	Position indication	Mechanical, pluggable
Safety data	Power source UL	Class 2 Supply
Surety data	Degree of protection NEMA/UL	NEMA 1
	Housing	UL Enclosure Type 1
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	Agency Listing	E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	1.6 lb [0.71 kg]

Materials

Housing material

Galvanized steel and plastic housing



Footnotes †Rated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree 2.

Accessories

Electrical accessories	Description	Туре
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x 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 kΩ add-on, grey	P5000A GR

Electrical installation

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.

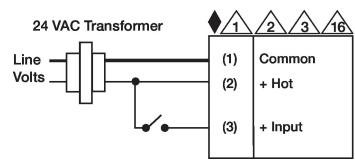
Meets cULus requirements without the need of an electrical ground connection.

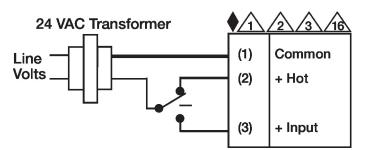
Warning! Live electrical components!

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 Floating Point



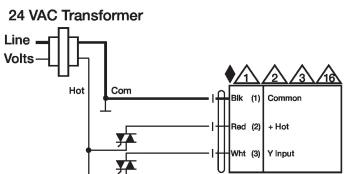




Electrical installation

Wiring diagrams

Floating Point - Triac Source



Floating Point - Triac Sink

