

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







Type overview

Туре	DN
B308	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 Δps	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	75°	
	Cv	0.46	
Materials	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	
Suitable actuators	Non Fail-Safe	TR LRB(X) LRQB(X) NRB(X) N4	
	Spring	TFRB(X) LF	



Safety notes

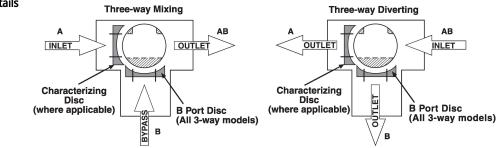


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

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 re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Flow/Mounting details



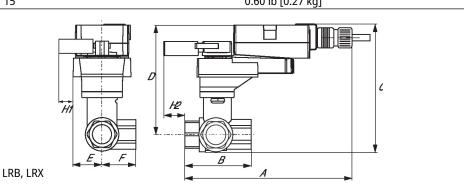
Dimensions

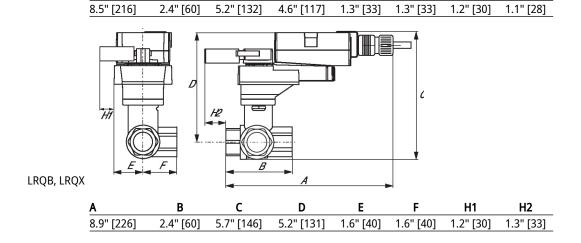
Туре	DN	Weight
B308	15	0.60 lb [0.27 kg]

В

A

С





D

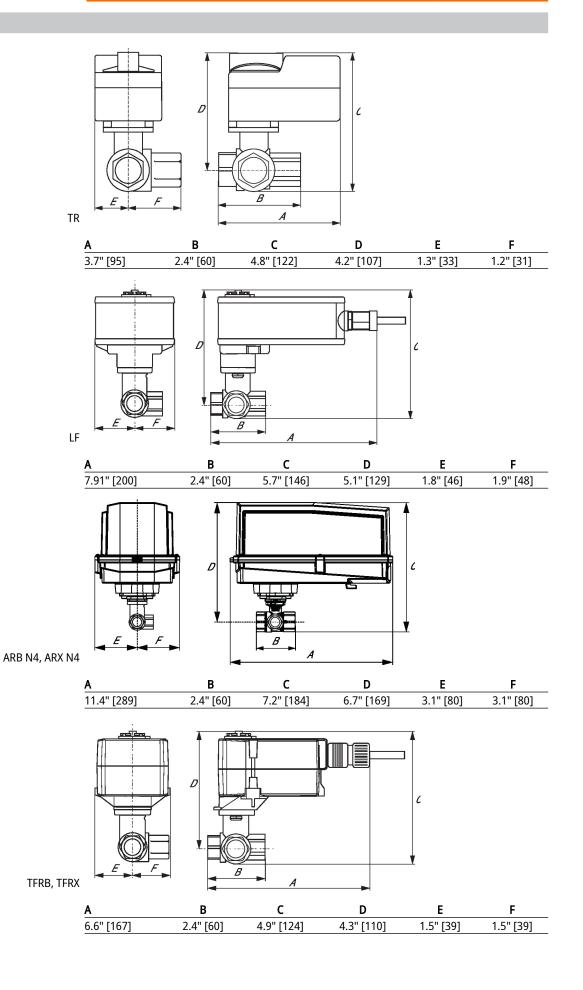
Ε

F

H1

H2







Technical data sheet

Modulating, Non fail-safe, 24 V





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	0.5 W
	Transformer sizing	1 VA
	Electrical Connection	Screw terminal (for 26 to 14 GA wire)
	Overload Protection	electronic throughout full rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA
	Direction of motion motor	selectable with switch
	Manual override	push down handle
	Angle of rotation	90°
	Running Time (Motor)	90 s / 90°
	Noise level, motor	35 dB(A)
	Position indication	integrated into handle
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP40
	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
	Quality Standard	CE acc. to 2014/30/EU and 2014/35/EU 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	0.85 lb [0.39 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
Electrical installation			

X INSTALLATION NOTES

 \bigwedge Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

\Lambda Only connect common to negative (-) leg of control circuits.

A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

 \bigwedge_{16} Actuators are provided with a numbered screw terminal strip instead of a cable.

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

Marning! 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

