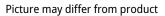


3-way Mixing/Diverting, Characterized Control Valve, Chrome Plated Brass Ball and Nickel Plated Brass Stem









_				
Type			DN	
B318B			3/4" [20]	
Technical data				
	Functional data	Valve size [mm]	0.75" [20]	
		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 – AE 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	7.4	
	Materials	Valve body	Nickel-plated brass body	
		Stem	nickel-plated brass	
		Stem seal	EPDM (lubricated)	
		Seat	PTFE	
		Characterized disc	TEFZEL®	
		O-ring	EPDM (lubricated)	
		Ball	chrome plated brass	
	Suitable actuators	Non Fail-Safe	TR LRB(X)	
		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



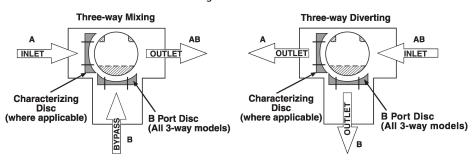
Product features

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.

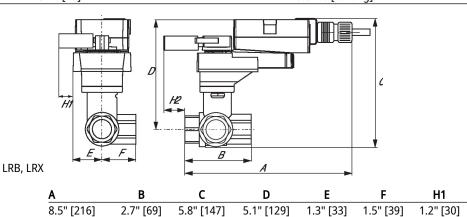
Flow/Mounting details

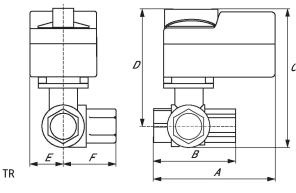
This valve is not suitable for use as a change over valve.



Dimensions







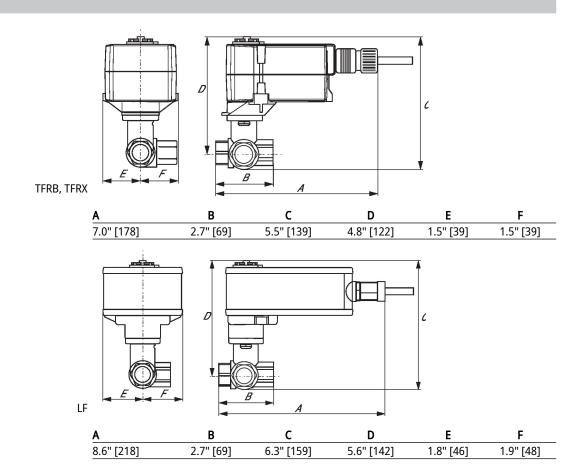
Α	В	С	D	E	F
4.0" [102]	2.7" [69]	5.39" [137]	4.7" [120]	1.3" [33]	1.5" [39]

H2

1" [25]



Dimensions





Modulating, Non fail-safe, 24 V





5-year warranty





echnical 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	18 AWG plenum cable, 5 m	
	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 k Ω 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	
	Housing	UL Enclosure Type 1	
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02	
		CE acc. to 2014/30/EU and 2014/35/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]	
	, per atare		

maintenance-free

Servicing



Weight Weight []

Electrical installation

X INSTALLATION NOTES

A Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

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

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

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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

2...10 V / 4...20 mA Control

