

Stem

Chrome Plated Brass Ball and Nickel Plated Brass

Technical data sheet

B307B





Technical data

Functional data	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 ∆ps	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	0.3
	Body pressure rating note	600 psi
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Materials	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
Suitable actuators	Non-Spring	TR LRB(X)

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.



Dimensions

AB

INLET

(All 3-way models)

B Port Disc

 \checkmark

F

1.3" [33]

H1

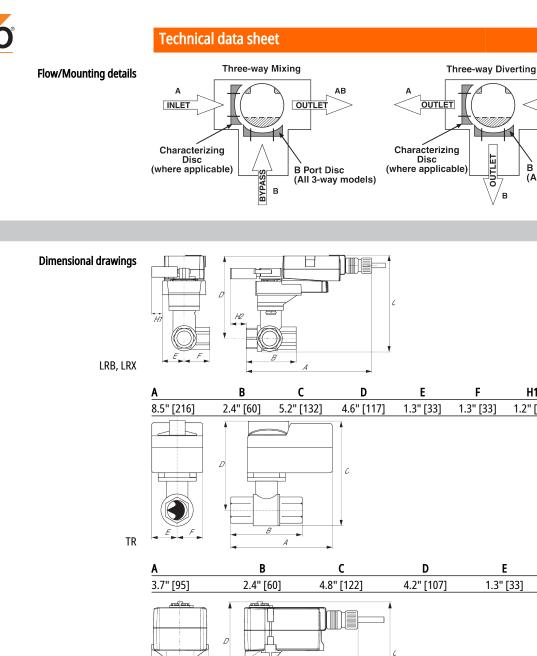
1.2" [30]

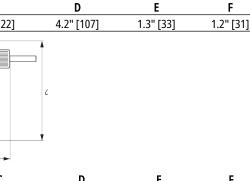
H2

1.1" [28]

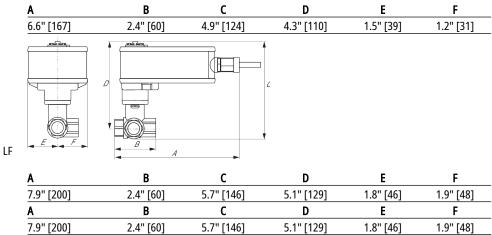
OUTLET

в



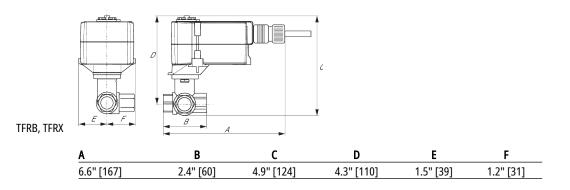


TFRB, TFRX



В





B307B



Modulating, Non-Spring Return, 24 V, for DC 2...10 V or 4...20 mA

Technical data sheet

TR24-SR/500 US





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	0.5 W
	Transformer sizing	1 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 15 ft [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	Mechanically, pluggable
Safety data	Degree of protection IEC/EN	IP40
	Degree of protection NEMA/UL	NEMA 1 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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	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

Safety notes



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• ZS-300 without brackets.

• NEMA 4X, 316L stainless steel enclosure. Battery Back Up System for SY(7~10)-110

- NEMA 4X, 304 stainless steel enclosure.
- MFT95 resistor kit for 4 to 20 mA control applications.

Electrical installation

X INSTALLATION NOTES

 Provide overload protection and disconnect as required.

 Actuators may also be powered by 24 VDC.



Technical data sheet

 $\sqrt{5}$ Only connect common to negative (-) leg of control circuits.

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

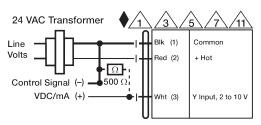
Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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

Warning! Live Electrical Components!

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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.



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