









Technical data

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Valve Size	0.511.5453
	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
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
Body pressure rating note	600 psi
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Seat	PTFE
End fitting	NPT female ends
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	TR LRB(X)

Safety notes



Materials

Suitable actuators

 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

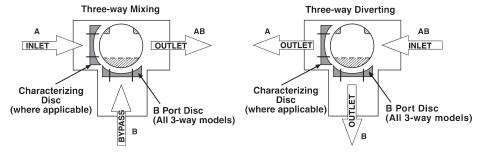
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Product features

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.

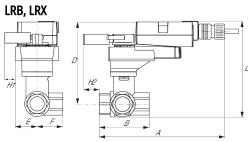
Flow/Mounting details





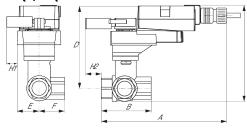
Dimensions

Dimensional drawings



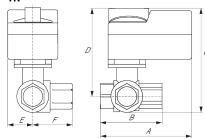
A	В	С	D	E	F	H1	H2
8.5" [216]	2.4" [60]	5.2" [132]	5.0" [127]	1.3" [33]	1.3" [33]	1.2" [30]	1.1" [28]

LRQB, LRQX



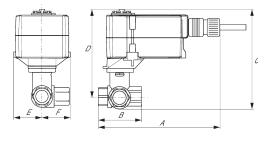
Α	В	С	D	E	F	H2
8.9" [226]	2.4" [60]	5.7" [146]	5.2" [131]	1.6" [40]	1.6" [40]	1.3" [33]

TR



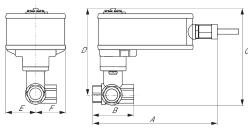
Α	В	С	D	E	F
3.7" [95]	2.4" [60]	4.8" [122]	4.2" [107]	1.3" [33]	1.2" [31]

TFRB, TFRX



Α	В	С	D	E	F
6.6" [167]	2.4" [60]	4.9" [124]	4.3" [110]	1.5" [39]	1.5" [39]







Technical data sheet					B313
A	В	С	D	E	F
7.9" [200]	2.4" [60]	5.7" [146]	5.1" [129]	1.8" [46]	1.8" [46]

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







Technical data		

2 power source)		
num cable, 3 ft [1 m]		
throughout full rotation		
n handle		
ally, pluggable		
NEMA 1		
ure Type 1		
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EI		
F [-3050°C]		
F [-4080°C]		
r.H., non-condensing		
nce-free		
31 kg]		

Electrical installation



Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

Actuators cannot be wired in parallel.

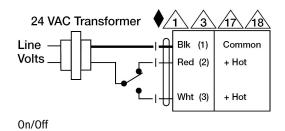
Actuators with plenum cable do not have numbers; use color codes instead.

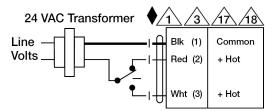
Meets cULus requirements without the need of an electrical ground connection.

/ 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.







TR24-3 US

Floating Point