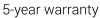


2-way, Characterized Control Valve, Stainless Steel Ball and Stem









Type overview	
Туре	DN
B220	20

Technical data

Functional data	Valve size [mm]	0.75" [20]
	Fluid	chilled or hot water, up to 60% glyco
	Fluid Temp Range (water)	0250°F [-18120°C]
	Body Pressure Rating	600 psi
	Close-off pressure Δps	200 psi
	Flow characteristic	equal percentage
	Leakage rate	0% for A – AB
	Pipe connection	Internal thread
		NPT (female)
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	75°
	Cv	14
	No Characterized Disc	TRUE
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
itable actuators	Non Fail-Safe	TR
		LRB(X)
		LRQB(X)
		NRB(X) N4
	Spring	TFRB(X)
		LF

Suitab



Safety notes



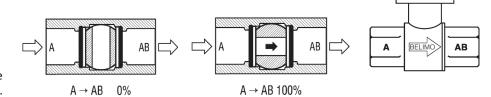
 WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

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 flow.

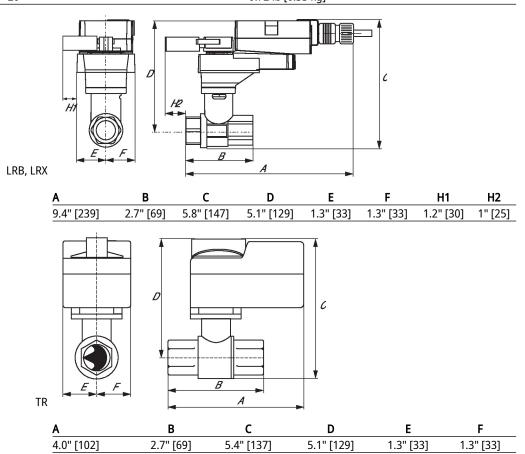
Flow/Mounting details



Two-way valves should be installed with the disc upstream.

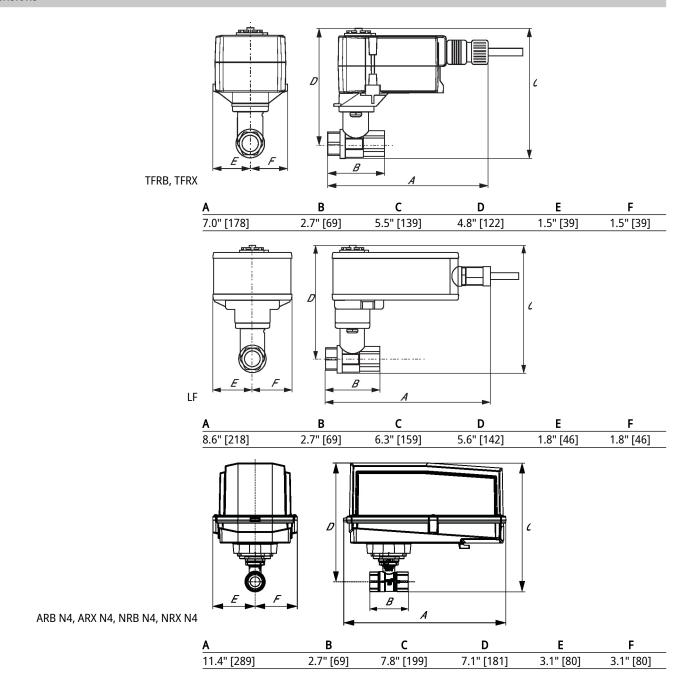
Dimensions

Туре	DN	Weight
B220	20	0.72 lb [0.33 kg]





Dimensions





On/Off, Non fail-safe, 24 V







echnical data			
Electrical data	Nominal voltage	AC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V	
	Power consumption in operation	1 W	
	Transformer sizing	1 VA	
	Electrical Connection	18 GA plenum cable, 16 ft [5 m]	
	Overload Protection	electronic throughout full rotation	
Functional data	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	
		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]	
	Storage temperature	-40176°F [-4080°C]	
	Servicing	maintenance-free	
Weight	Weight	0	

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

Provide overload protection and disconnect as required.

 $\stackrel{\frown}{\mathbf{A}}$ Actuators may also be powered by DC 24 V.

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.

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.

