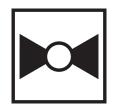


2-way, Characterized Control Valve, Stainless Steel Ball and Stem





5-year warranty



Type overview	
Туре	DN
D216	15

Technical data Functional data Valve size [mm] 0.5" [15] Fluid chilled or hot water, up to 60% glycol 0...250°F [-18...120°C] Fluid Temp Range (water) **Body Pressure Rating** 600 psi Close-off pressure ∆ps 200 psi Flow characteristic equal percentage Leakage rate 0% for A - AB Internal thread Pipe connection NPT (female) Servicing maintenance-free Flow Pattern 2-way Controllable flow range 75° Cv 16 No Characterized Disc TRUE Materials Valve body Nickel-plated brass body Stem stainless steel Stem seal EPDM (lubricated) Seat **PTFE** Characterized disc **TEFZEL®** 0-ring EPDM (lubricated) Ball stainless steel

Suitable actuators	Non Fail-Safe	TR
		LRB(X)
		LRQB(X)
		NRB(X) N4

TFRB(X)

LF

Spring



Safety notes



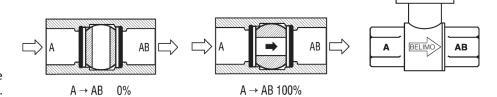
 WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

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.

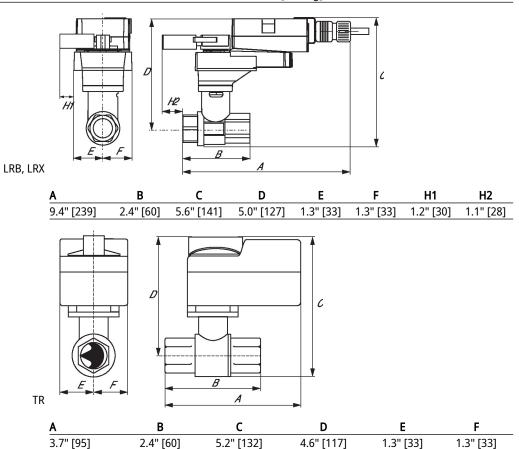
Flow/Mounting details



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

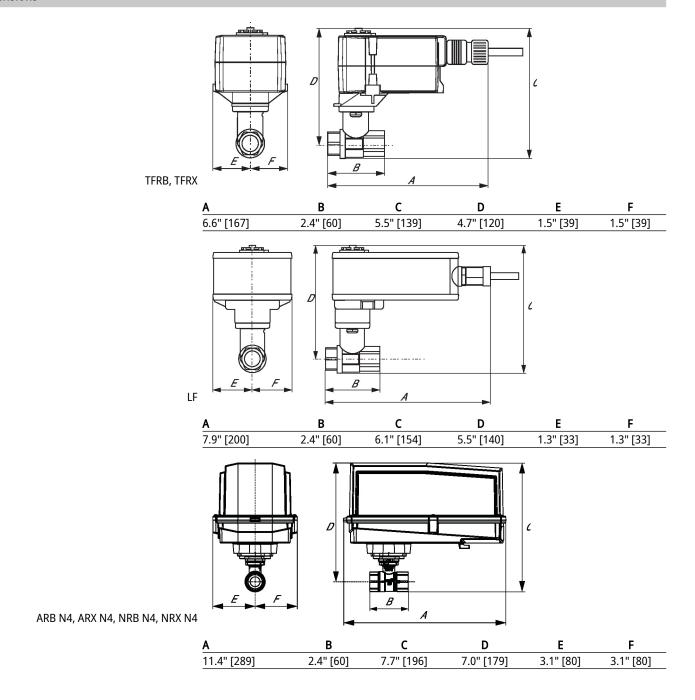
Dimensions

Туре	DN	Weight
B216	15	0.66 lb [0.30 kg]





Dimensions





On/Off, Floating point, Non fail-safe, 24 V







Techr	nical	l data
ICCIII	ııca	uata

Electrical data	Nominal voltage	AC/DC 24 V	
Liectifical data	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V	
	Power consumption in operation	1.5 W	
	Power consumption in rest position	0.2 W	
	Transformer sizing	2.5 VA	
	Auxiliary switch	1x SPDT, 3 A resistive (0.5 A inductive) @ AC	
	Number 5 Witch	250 V, adjustable 0100%	
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" NPT conduit connector	
	Overload Protection	electronic thoughout 090° rotation	
	Electrical Protection	actuators are double insulated	
Functional data	Direction of motion motor	selectable with switch 0/1	
	Manual override	external push button	
	Angle of rotation	90°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	90 s / 90°	
	Noise level, motor	35 dB(A)	
	Position indication	Mechanical, pluggable	
Safety data	Power source UL	Class 2 Supply	
	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	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	
	·		



Technical data

Materials Housing material Galvanized steel and plastic housing

Footnotes †Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.

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
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A
	Feedback potentiometer 140 Ω add-on, grey	P140A GR
	Feedback potentiometer 1 k Ω add-on, grey	P1000A GR
	Feedback potentiometer 10 k Ω add-on, grey	P10000A GR
	Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR
	Feedback potentiometer 500 Ω add-on, grey	P500A GR
	Feedback potentiometer 5 k Ω add-on, grey	P5000A GR

Electrical installation

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🕻 INSTALLATION NOTES

 $m{\Lambda}$ Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

🛕 Actuators may also be powered by DC 24 V.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

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

One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

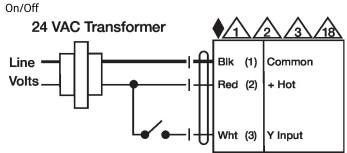
Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

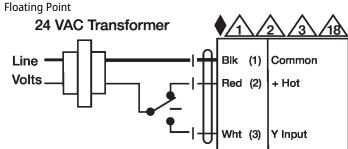
Meets cULus requirements without the need of an electrical ground connection.

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





Y Input



Electrical installation

Wiring diagrams

Floating Point - Triac Source

24 VAC Transformer

Line
Volts
Hot

Com

Red (2) + Hot

