BELIMO®

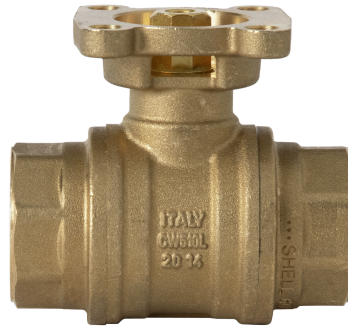**Potable water valve, 2-way, internal thread**

• For potable water applications
• NSF/ANSI 372 - Lead Free
• NSF/ANSI 61 - Water Quality

2

2-year warranty

Technical data

Functional data	Valve Size	1" [25]
	Potable water certificate	NSF/ANSI 61
		NSF/ANSI 372
	Fluid	Potable water
	Fluid temperature	-4...212°F [-20...100°C]
	Body Pressure Rating	600 psi CWP
	Close-off pressure Δps	200 psi
	Differential pressure Δpmax	200
	Angle of rotation	90°
	Pipe connection	NPT female
	Servicing	maintenance-free
	Flow Pattern	2-way
	Leakage rate	0%
	Cv	81
Materials	Valve body	Lead free brass
	Stem	Lead free brass
	Seat	PTFE
	O-ring	EPDM
	Ball	Chrome plated lead free brass
Suitable actuators	Non-Spring	LRB(X)
	Spring	LF

Safety notes

⚠️ • The ball valve has to be exercised at least once a week, so that the quality of potable water as well as the functionality are not affected.

Product features

Mode of operation The on/off ball valve is adjusted by a rotary actuator. The rotary actuator is connected by an on/off signal. Open the ball valve counterclockwise and close it clockwise.

Installation notes

Notes The ball valve is a regulating device. To fulfil this control task in the long term, the circuit must be kept free from particle debris (e.g. welding beads during installation work).
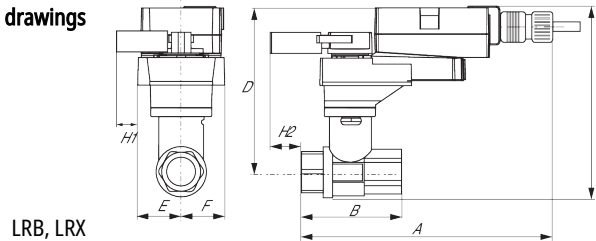
Recommended installation positions The ball valve can be installed upright to horizontal. The ball valve may not be installed in a hanging position, i.e. with the stem pointing downwards.
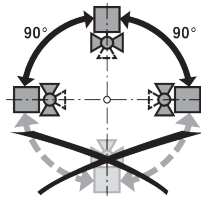
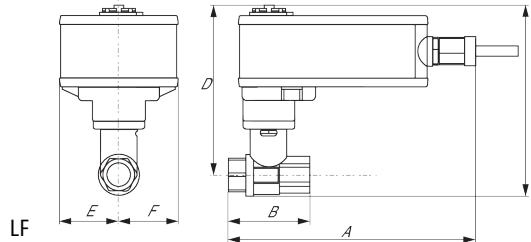**Servicing**   Ball valves and rotary actuators are maintenance-free.

Dimensions

Dimensional drawings

LRB, LRX

A	B	C	D	E	F	H1	H2
7.6" [192]	3.2" [82]	6.1" [154]	5.1" [129]	1.3" [33]	33	1.2" [30]	1" [25]

LF

A	B	C	D	E	F
8.9" [226]	3.2" [82]	6.1" [154]	5.3" [134]	1.9" [48]	48

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

5

5-year warranty

Technical data

|		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.2 W
	Transformer sizing	2 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]
	Overload Protection	electronic thoughout 0...90° rotation
Functional data	Input Impedance	600 Ω
	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
	Noise level, motor	35 dB(A)
	Position indication	Mechanically, pluggable
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	0.67 lb [0.30 kg]

Electrical installation

INSTALLATION NOTES

1. Provide overload protection and disconnect as required.
2. Actuators may be connected in parallel. Power consumption and input impedance must be observed.
3. Actuators may also be powered by DC 24 V.
6. 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.
18. 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.
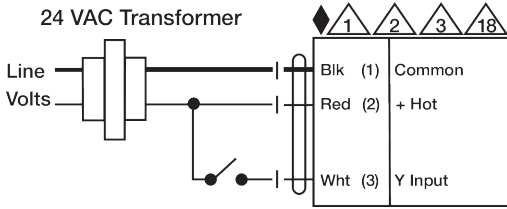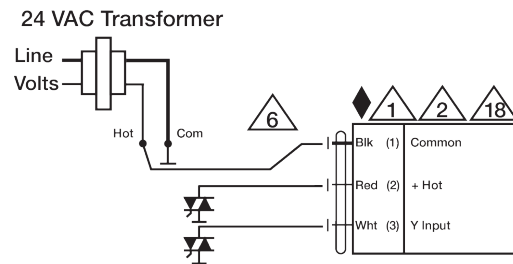

On/Off
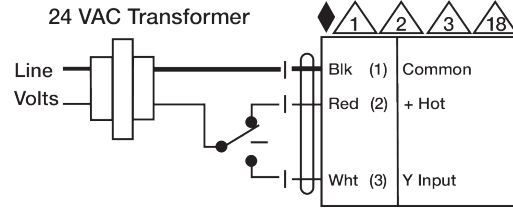
Floating Point
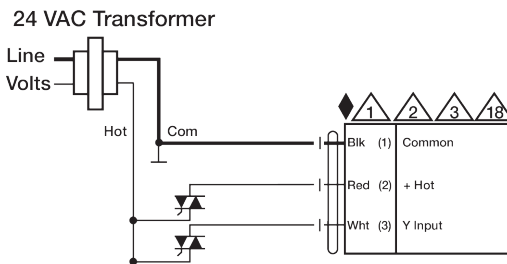
Floating Point - Triac Source

Floating Point - Triac Sink