

## Models

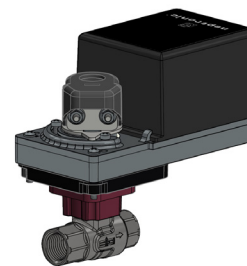
B2AxxxxPP1: 2-way, 1/2" (DN15), female NPT

B2BxxxxPP1: 2-way, 3/4" (DN20), female NPT

B2CxxxxPP1: 2-way, 1" (DN25), female NPT

## Features

- 2-way valves available in 1/2" (DN15), 3/4" (DN20), 1" (DN25), 1 1/4" (DN32), 1 1/2" (DN40) and 2" (DN50)
- Compatible with Neptronic B series (50 in.lb [5.6 Nm]) and L series (140 in.lb [16 Nm]) actuators
- Small dimensions allow for easier installation
- Machined brass equal percentage characterized disc
- CV range from 0.3 to 30 (Kv 0.26 to 26)
- Control signal options include on/off, floating point or modulating (proportional)
- Low pressure steam (less than 15 psi)



With B Series Actuators

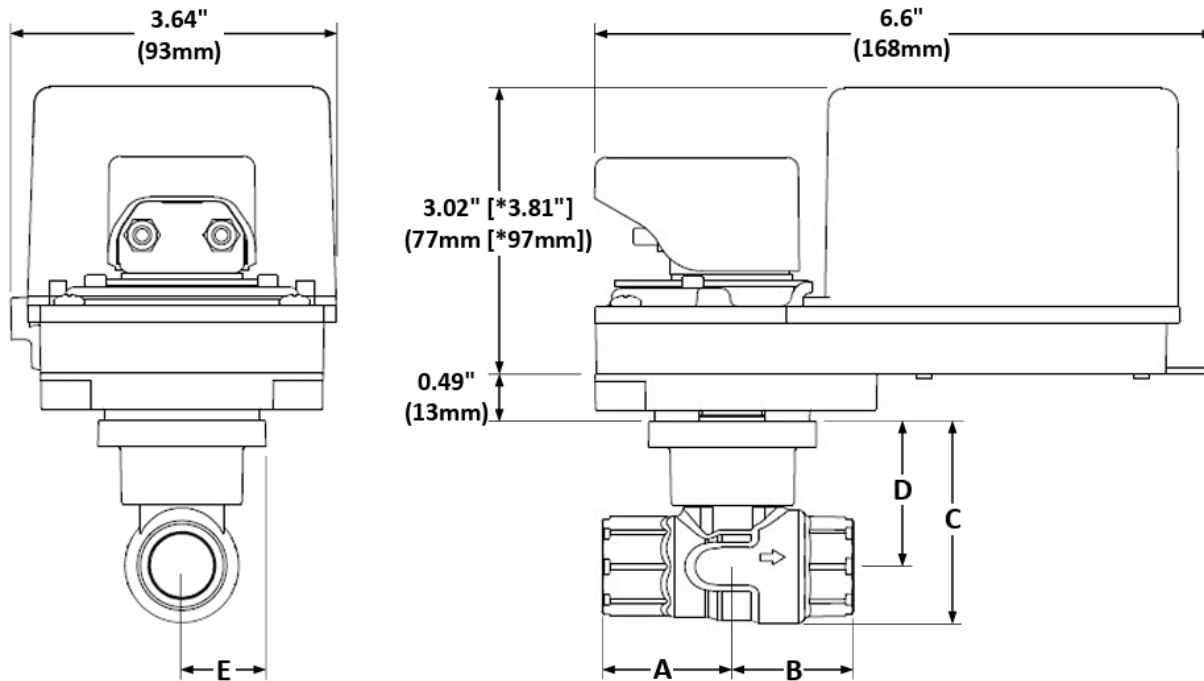
## Models

Size	2-Way Models	Cv	Kv
1/2" (DN15)	BSA0004LS1	0.3	0.26
	BSA0005LS1	0.46	0.4
	BSA0008LS1	0.8	0.7
	BSA0012LS1	1.2	1
	BSA0019LS1	1.9	1.64
	BSA0030LS1	3	2.5
	BSA0047LS1	4.7	4
3/4" (DN20)	BSB0019LS1	1.9	1.64
	BSB0029LS1	2.9	2.5
	BSB0047LS1	4.7	4
	BSB0074LS1	7.4	6.4
	BSB0010LS1	10	8.6
	BSB0014LS1	14	12
1" (DN25)	BSC0074LS1	7.4	6.4
	BSC0100LS1	10	8.6
	BSC0190LS1	19	16
	BSC0300LS1	30	26

## Technical Data

Specification		All Models
Actuator Compatibility		All Neptronic B and L series actuators
Sizes		1/2" to 2" [DN15 to DN50]
Range Cv [Kv]		0.3 to 30 [0.26 to 26]
Media Type		Low Pressure Steam
Media Temperature Range		0°F to 250°F [-18°C to 120°C]
Pressure	Body	600 psi [4137 kPa]
	Close-Off	200 psi [1379 kPa]
	Differential	15 psi [103 kPa]
	Max Inlet	15 psi [103 kPa]
Leakage: A-AB Port		0%
Materials	Body	Nickle-Plated Forged Brass
	Ball and Stem	316 Stainless Steel
	Seats	PTFE
	Characterized Disc	Brass Characterized
	Stem O-Rings	EPDM
Flow	Curve	Equal Percentage
	Pattern	2-Way
	Control	75°
Rangeability		100:1
Valve	Connection	Female NPT

### Dimensions

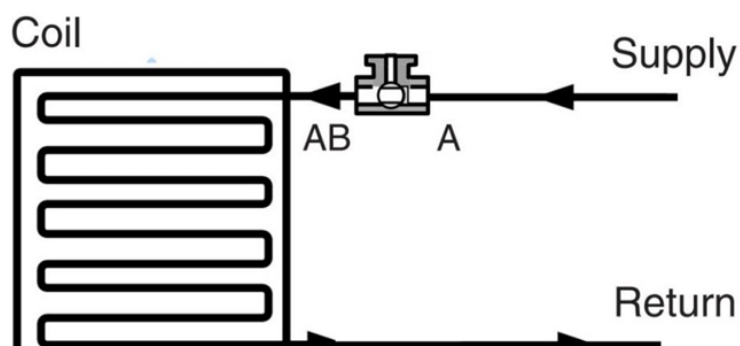


Valve Size	1/2" [DN15]	3/4" [DN20]	1" [DN25]
A	1.38" [35mm]	1.53" [39mm]	1.89" [48mm]
B	1.28" [33mm]	1.48" [38mm]	1.89" [48mm]
C	2.13" [54mm]	2.46" [63mm]	2.81" [72mm]
D	1.53" [39mm]	1.69" [43mm]	1.87" [48mm]
E	0.89" [23mm]	0.89" [23mm]	0.94" [24mm]

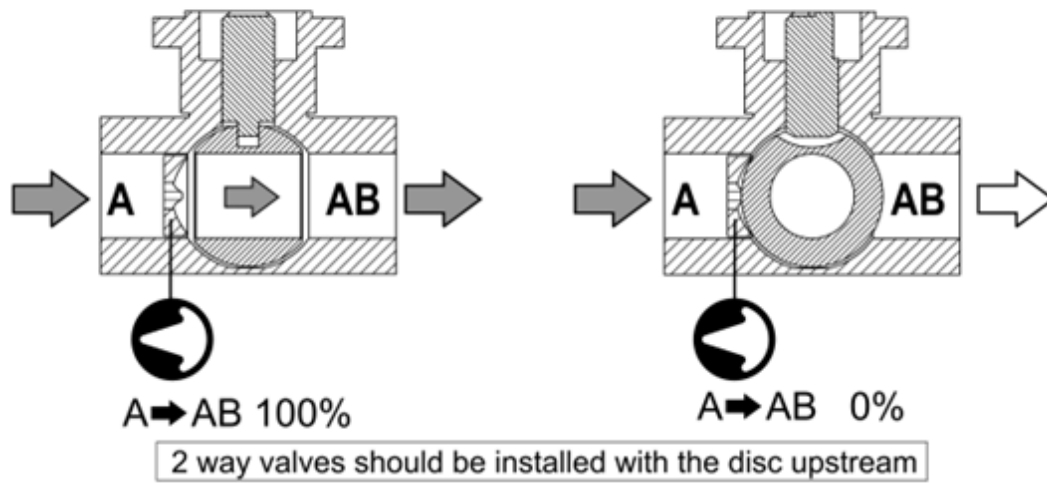
### Mechanical Installation (Valve Body)

Install the valve body on the supply side according to the direction indicated on the valve's body cavity. The Neptronic 2-way steam valve is an electronically actuated ball valve. Control signal options include on/off, floating point or modulating (proportional) and are used to determine the final positioning of the ball rotation angle which determines the amount of flow going through the valve.

Valve installed on the supply side of the coil

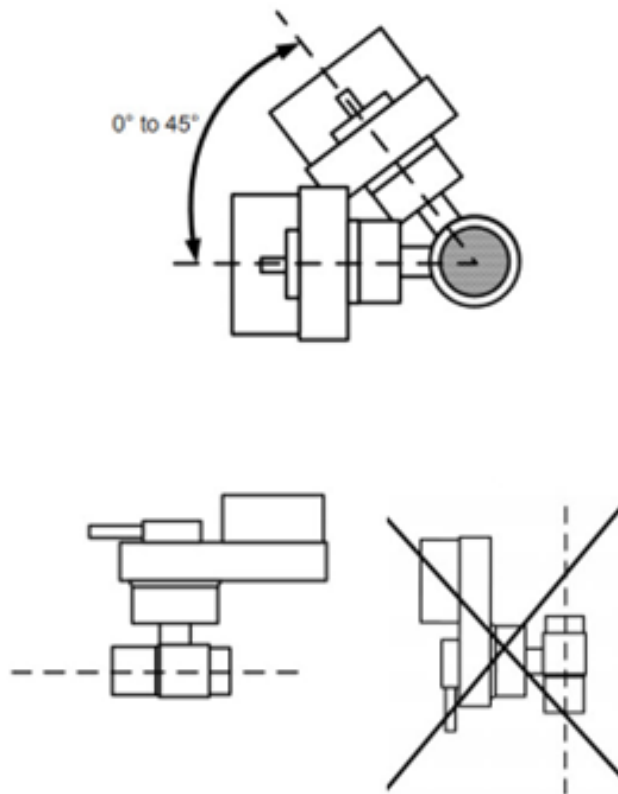


### Mechanical Installation (Flow Pattern 2-Way)



### Installation

The valve cannot be mounted vertically. If mounted horizontally the valve must be  $0^\circ$  to  $45^\circ$  off the horizontal line across the center of the pipe. Do not install with the actuator below pipe.



## Mechanical Installation



Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult [www.neptronic.com](http://www.neptronic.com).