

### Models

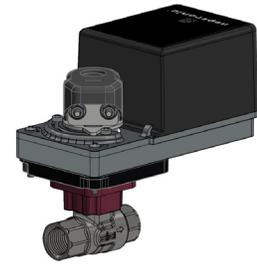
B2AxxxxPP1: 2-way, 1/2" (DN15), female NPT

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

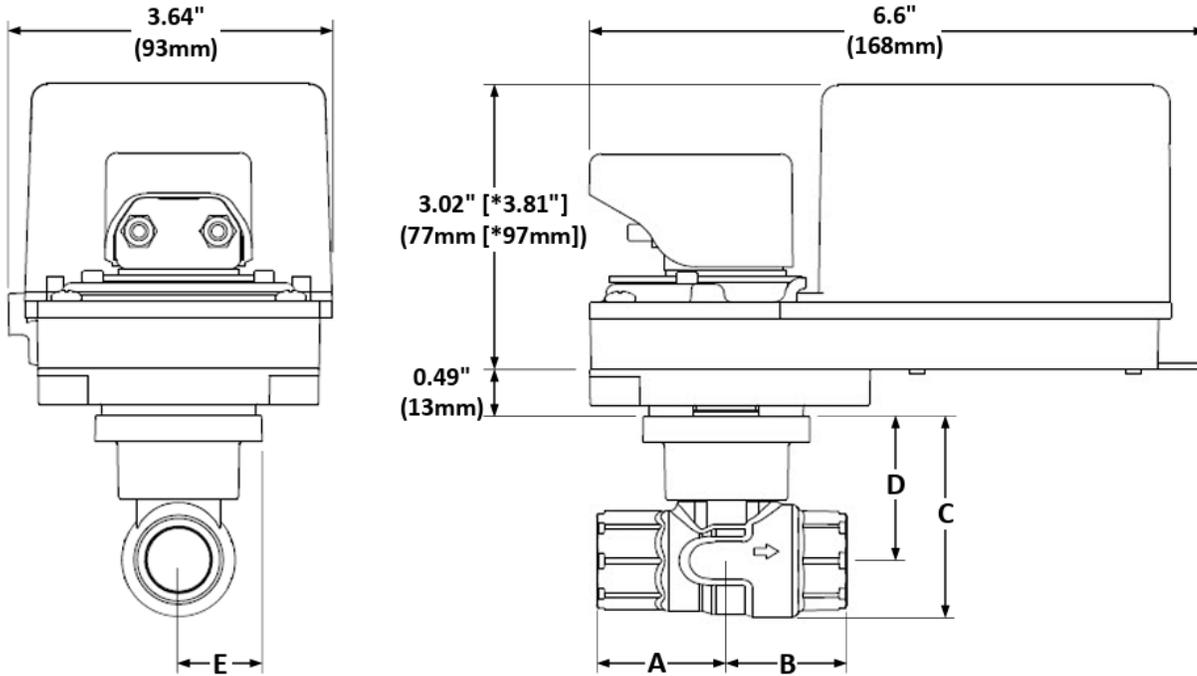
### Models

| Size           | 2-Way Models | Cv   | Kv   |
|----------------|--------------|------|------|
| 1/2"<br>(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"<br>(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"<br>(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                             |

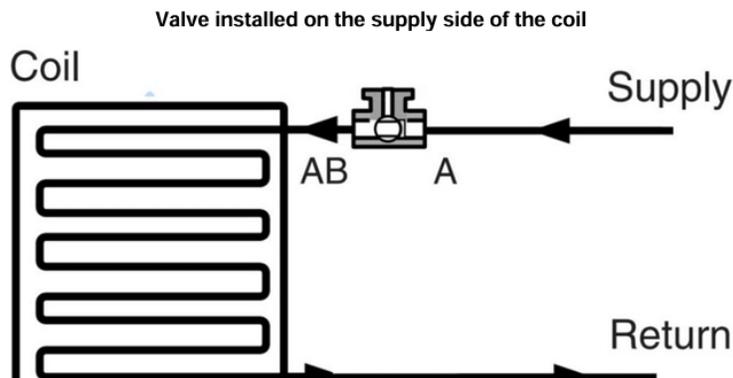
### Dimensions



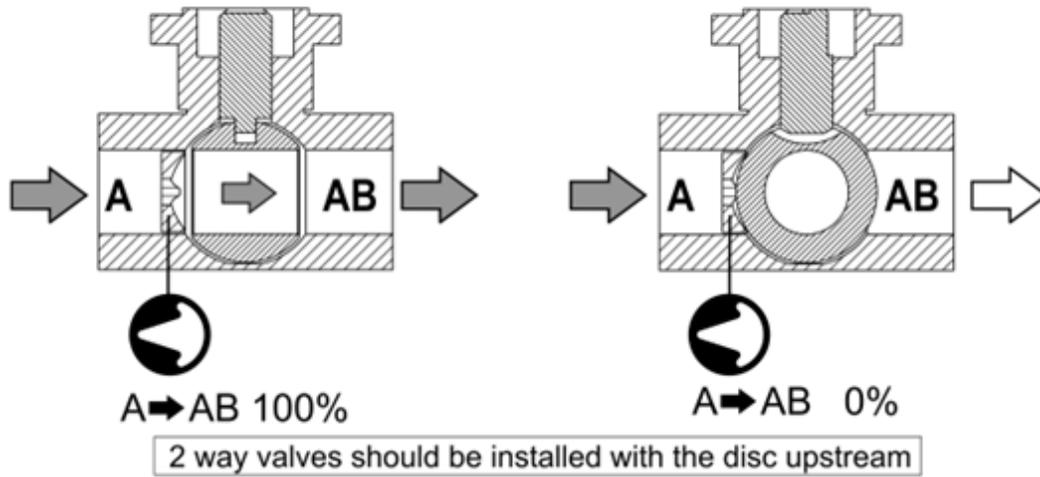
| Valve Size | 1/2" [DN15]  | 3/4" [DN20]  | 1" [DN25]    |
|------------|--------------|--------------|--------------|
| A          | 1.38" [35mm] | 1.53" [39mm] | 1.89" [48mm] |
| B          | 1.28" [33mm] | 1.48" [38mm] | 1.89" [48mm] |
| C          | 2.13" [54mm] | 2.46" [63mm] | 2.81" [72mm] |
| 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.

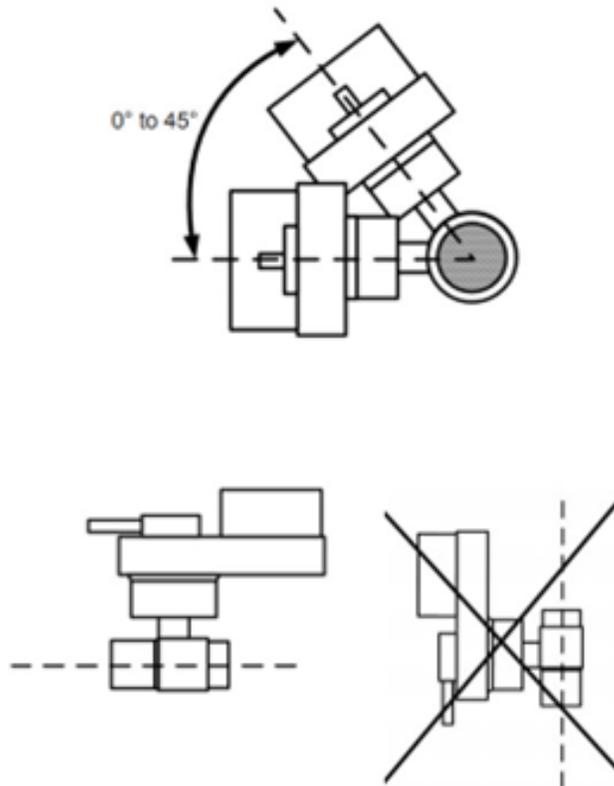


## Mechanical Installation (Flow Pattern 2-Way)



## 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).