

# 2-Way Steam Control Ball Valve

Specification and Installation Instructions

### **Series**

**BSAxxxxLS1:** 2-way, 1/2" (DN15), female NPT, L.P. Steam **BSBxxxxLS1:** 2-way, 3/4" (DN20), female NPT, L.P. Steam **BSCxxxxLS1:** 2-way, 1" (DN25), female NPT, L.P. Steam

#### **Features**

- 2-way steam valves available in 1/2" (DN15), 3/4" (DN20), and 1" (DN25)
- Compatible with Neptronic B series (50 in.lb [5.6Nm]) actuators
- Ideal applications such as fan coils, unit ventilators and low pressure steam
- Small dimensions allow for easier installation
- Maintenance free design
- Metal characterizing equal percentage orifice- consistent efficient through life
- Cv range from 0.3 to 30 (Kv 0.26 to 26)
- More compact than a globe valve



# **Models**

Size	2-Way NPT	Cv	Kv
½" (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	2.6
	BSA0047LS1	4.7	4
	BSA0074LS1	7.4	6.4
<sup>3</sup> ⁄ <sub>4</sub> " (DN20)	BSB0019LS1	1.9	1.64
	BSB0029LS1	2.9	2.5
	BSB0047LS1	4.7	4
	BSB0074LS1	7.4	6.4
	BSB0100LS1	10	8.6
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 series actuators	
Sizes		1/2" to 1" [DN15 to DN25]	
Cv [Kv]	Range	0.3 to 30 [0.26 to 26]	
Media	Туре	Low Pressure Steam	
	Temperature Range	0°F to 250°F [-18°C to 120°C]	
	Body	600 psi [4137 kPa]	
Pressure	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	
	Stem O-Rings	EPDM	
Flow	Curve	Equal %	
	Pattern	2-Way	
	Control	75°	
Rangeability		100:1	
Valve	Connection	Female NPT	

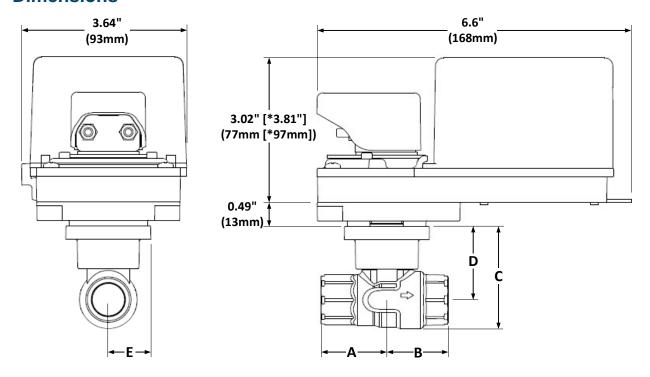
2-Way Steam Control Ball Valve - 200617 Page | 1



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#### **Dimensions**



\*For actuator models 020 & 080

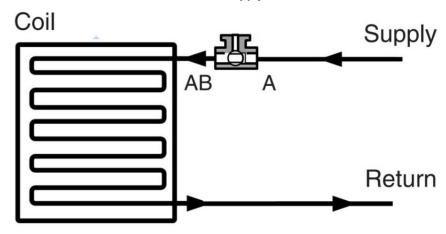
Size	½" [DN15]	3/4" [DN20]	1" [DN25]
А	1.38" (35mm)	1.53" (39mm)	1.89" (48mm)
В	1.28" (33mm)	1.48" (38mm)	1.89" (48mm)
С	2.13" (54mm)	2.46" (63mm)	2.81" (72mm)
D	1.53" (39mm)	1.69" (43mm)	1.87" (48mm)
E	0.89" (22mm)	0.89" (23mm)	0.94" (24mm)

## **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

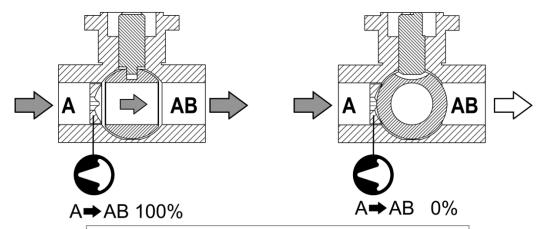


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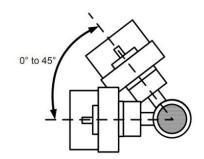
# Flow Pattern (2-Way)

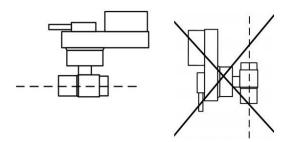


2 way valves should be installed with the disc upstream

#### Installation

Valve cannot be mounted vertically. If mounted horizontally valve must be 0° to 45° off the horizontal line across the center of the pipe. Do not install with actuator below pipe.





Page | 3 www.neptronic.com

Notes	



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**.



400 Lebeau blvd, Montreal, Qc, H4N 1R6, Canada www.neptronic.com

Toll free in North America: 1-800-361-2308

Tel.: (514) 333-1433

Fax: (514) 333-3163 Customer service fax: (514) 333-1091 Monday to Friday: 8:00am to 5:00pm (Eastern time)