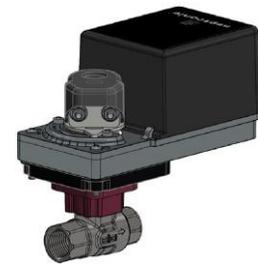


## Models

- B2AxxxxPS1: 2-way, 1/2" (DN15), female NPT
- B2BxxxxPS1: 2-way, 3/4" (DN20), female NPT
- B2CxxxxPS1: 2-way, 1" (DN25), female NPT
- B2DxxxxPS1: 2-way, 1 1/4" (DN32), female NPT
- B2ExxxxPS1: 2-way, 1 1/2" (DN40), female NPT
- B2FxxxxPS1: 2-way, 2" (DN50), female NPT



With B Series Actuators

## 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 metal, equal-percentage characterized disc
- CV range from 0.3 to 230 (Kv 0.26 to 199)
- Control signal options include on/off, floating point or modulating (proportional)



With L Series Actuators

## Models

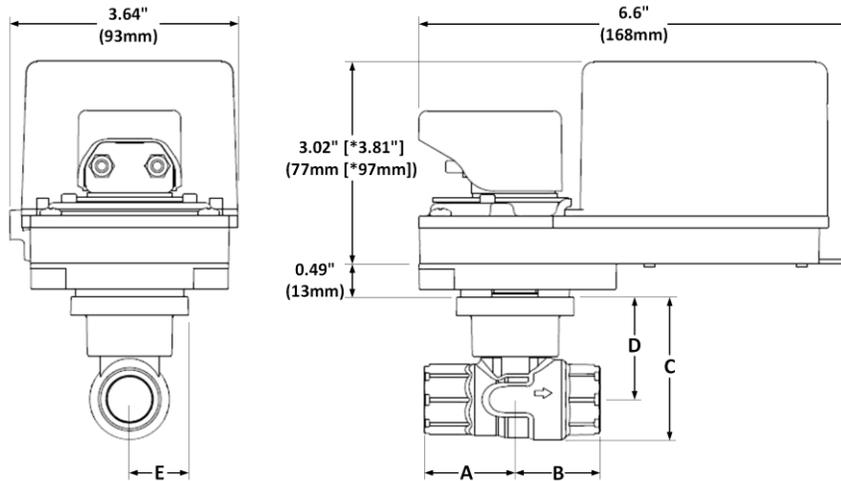
Size	2-Way Models	Cv	Kv	Size	2-Way Models	Cv	Kv
1/2" (DN15)	B2A0003PS1	0.3	0.26	1 1/4" (DN32)	B2D0100PS1	10	8.6
	B2A0005PS1	0.46	0.4		B2D0190PS1	19	16
	B2A0008PS1	0.8	0.7		B2D0250PS1	25	22
	B2A0012PS1	1.2	1		B2D0370PS1	37	32
	B2A0019PS1	1.9	1.64	1 1/2" (DN40)	B2E0190PS1	19	16
	B2A0030PS1	3	2.5		B2E0290PS1	29	25
	B2A0047PS1	4.7	4		B2E0370PS1	37	32
	B2A0074PS1	7.4	6.4		B2E0460PS1	46	40
	B2A0100PS1	10	8.6		B2F0290PS1	29	25
	B2A0160PS1	16	14		B2F0370PS1	37	32
3/4" (DN20)	B2B0047PS1	4.7	4	2" (DN50)	B2F0460PS1	46	40
	B2B0074PS1	7.4	6.4		B2F0570PS1	57	49
	B2B0100PS1	10	8.6		B2F0660PS1	66	57
	B2B0140PS1	14	12		B2F0850PS1	85	74
	B2B0240PS1	24	21		B2F1200PS1	120	104
1" (DN25)	B2C0074PS1	7.4	6.4		B2F2300PS1	230	199
	B2C0100PS1	10	8.6				
	B2C0190PS1	19	16				
	B2C0300PS1	30	26				

### Technical Data

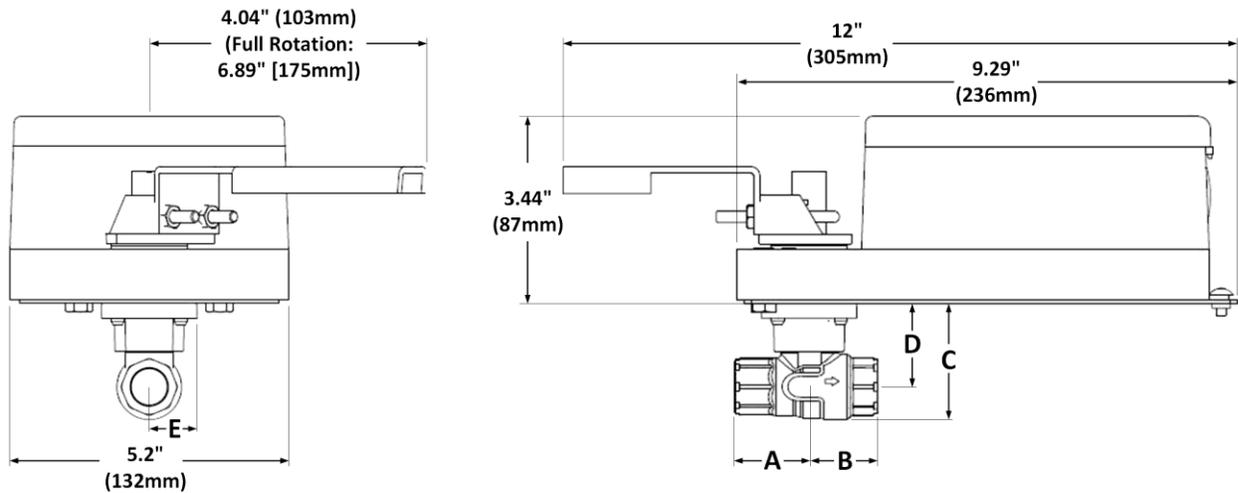
Specification		All Models	
Actuator Compatibility		All Neptronic B and L series actuators	
Sizes		1/2" to 2" [DN15 to DN50]	
Range Cv [Kv]		0.3 to 230 [0.26 to 199]	
Media Type		Water, Glycol 60%	
Media Temperature Range		0°F to 250°F [-18°C to 120°C]	
Pressure	Body	1/2" [DN15]	600 psi [4137 kPa]
		3/4" [DN20]	600 psi [4137 kPa]
		1" [DN25]	400 psi [2758 kPa]
		1-1/4" [DN32]	400 psi [2758 kPa]
		1-1/2" [DN40]	400 psi [2758 kPa]
		2" [DN50]	400 psi [2758 kPa]
	Close-Off	200 psi [1379 kPa]	
	Differential	50 psi [345 kPa]	
Leakage		0%	
Materials	Body	Nickle-Plated Forged Brass	
	Ball and Stem	Stainless-Steel	
	Seats	PTFE	
	Characterized Disc	Brass Characterized	
	Stem O-Rings	EPDM	
Flow Characteristic	A to AB	Equal Percentage	
	Control Angle	75°	
Flow Pattern		2-Way	
		Flow A-AB	
Rangeability		100:1	
Valve	Connection	Female NPT	

### Dimensions

#### Mounted on B Series Actuators

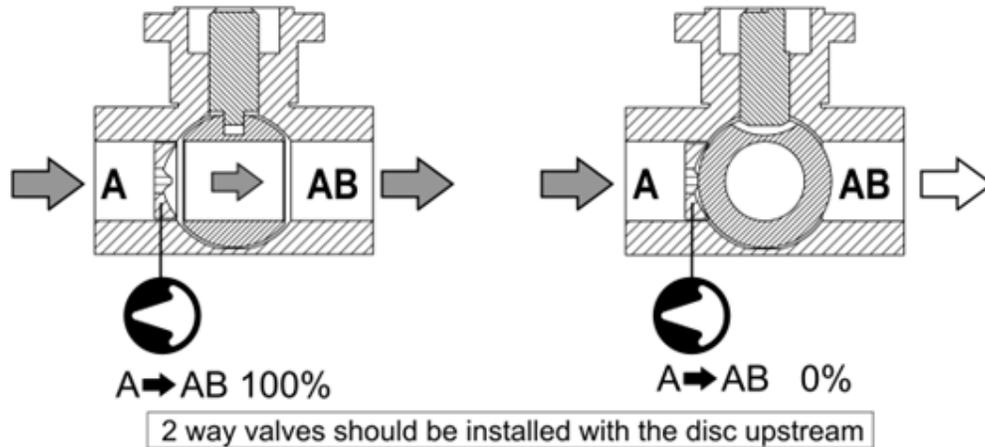


#### Mounted on L Series Actuators



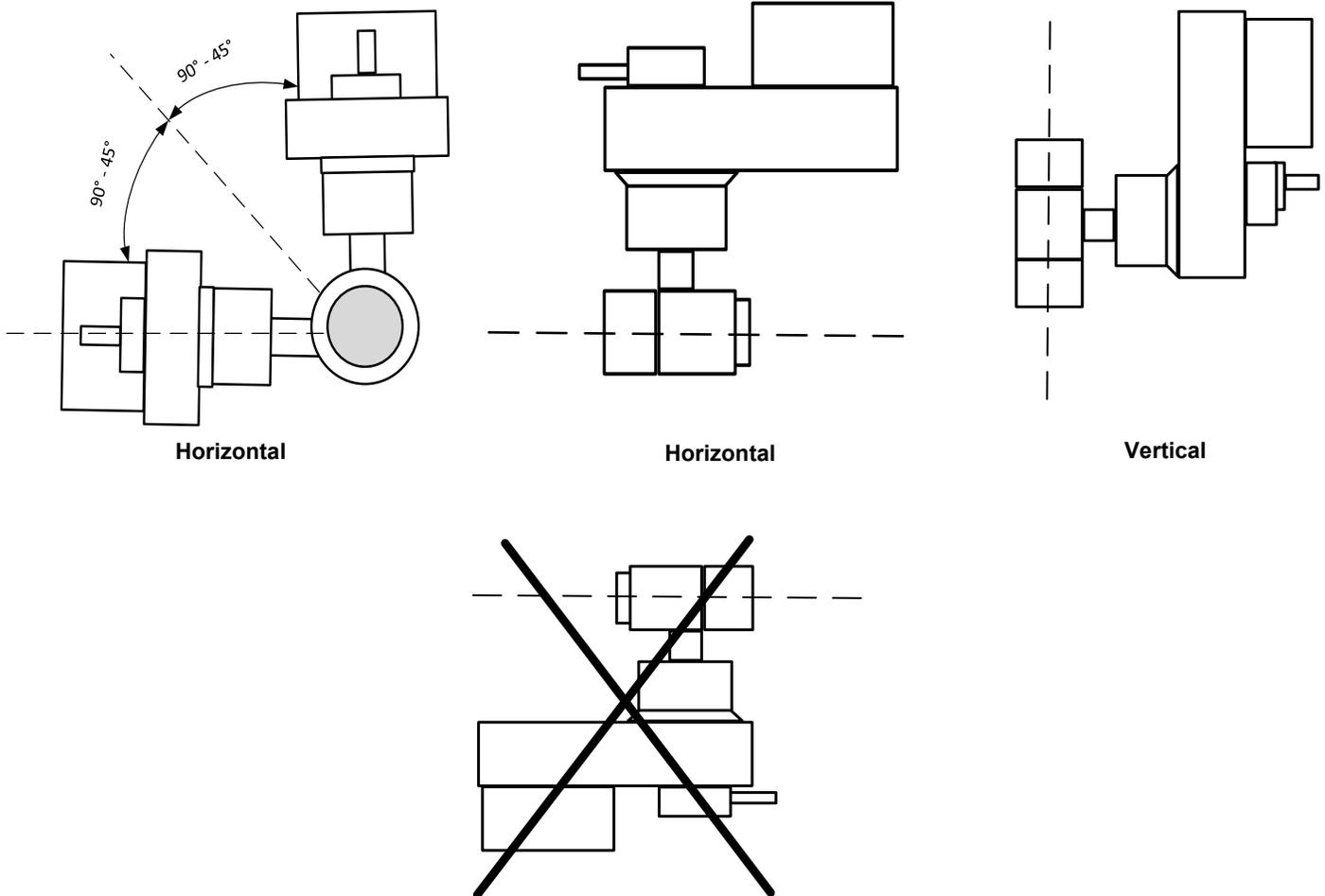
Valve Size	1/2" [DN15]	3/4" [DN20]	1" [DN25]	1-1/4" [DN32]	1-1/2" [DN40]	2" [DN50]
A	1.38" [35mm]	1.53" [39mm]	1.89" [48mm]	2.15" [55mm]	2.18" [56mm]	2.76" [70mm]
B	1.28" [33mm]	1.48" [38mm]	1.89" [48mm]	2.01" [51mm]	2.20" [56mm]	2.76" [70mm]
C	2.13" [54mm]	2.46" [63mm]	2.81" [72mm]	3.40" [86mm]	3.40" [86mm]	4.48" [114mm]
D	1.53" [39mm]	1.69" [43mm]	1.87" [48mm]	2.20" [56mm]	2.20" [56mm]	2.73" [69mm]
E	0.89" [23mm]	0.89" [23mm]	0.94" [24mm]	1.20" [31mm]	1.20" [31mm]	1.75" [45mm]

### Mechanical Installation



### Installation

If mounted horizontally the valve must be 90° to 45° off the horizontal line across the center of the pipe. If mounted vertically, do not install with the actuator below pipe.



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).