

### Series

- B2AxxxxPP1:** 2-way, 1/2" (DN15), female NPT
- B2BxxxxPP1:** 2-way, 3/4" (DN20), female NPT
- B2CxxxxPP1:** 2-way, 1" (DN25), female NPT
- B2DxxxxPP1:** 2-way, 1 1/4" (DN32), female NPT
- B2ExxxxPP1:** 2-way, 1 1/2" (DN40), female NPT
- B2FxxxxPP1:** 2-way, 2" (DN50), 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
- Ideal applications for fan coils, unit ventilators, heating and cooling coils and VAV re-heat coils
- 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 B Series Actuators



With L Series Actuators

### Models

Size	2-Way NPT	Cv	Kv
1/2" (DN15)	B2A0003PP1	0.3	0.26
	B2A0005PP1	0.46	0.4
	B2A0008PP1	0.8	0.7
	B2A0012PP1	1.2	1
	B2A0019PP1	1.9	1.64
	B2A0030PP1	3	2.6
	B2A0047PP1	4.7	4
	B2A0074PP1	7.4	6.4
	B2A0100PP1	10	8.6
	B2A0160PP1	16	14
3/4" (DN20)	B2B0047PP1	4.7	4
	B2B0074PP1	7.4	6.4
	B2B0100PP1	10	8.6
	B2B0140PP1	14	12
	B2B0240PP1	24	21
1" (DN25)	B2C0074PP1	7.4	6.4
	B2C0100PP1	10	8.6
	B2C0190PP1	19	16
	B2C0300PP1	30	26

Size	2-Way NPT	Cv	Kv
1 1/4" (DN32)	B2D0100PP1	10	8.6
	B2D0190PP1	19	16
	B2D0250PP1	25	22
	B2D0370PP1	37	32
1 1/2" (DN40)	B2E0190PP1	19	16
	B2E0290PP1	29	25
	B2E0370PP1	37	32
	B2E0460PP1	46	40
2" (DN50)	B2F0290PP1	29	25
	B2F0370PP1	37	32
	B2F0460PP1	46	40
	B2F0570PP1	57	49
	B2F0660PP1	66	57
	B2F0850PP1	85	74
	B2F1200PP1	120	104
	B2F2300PP1	230	199

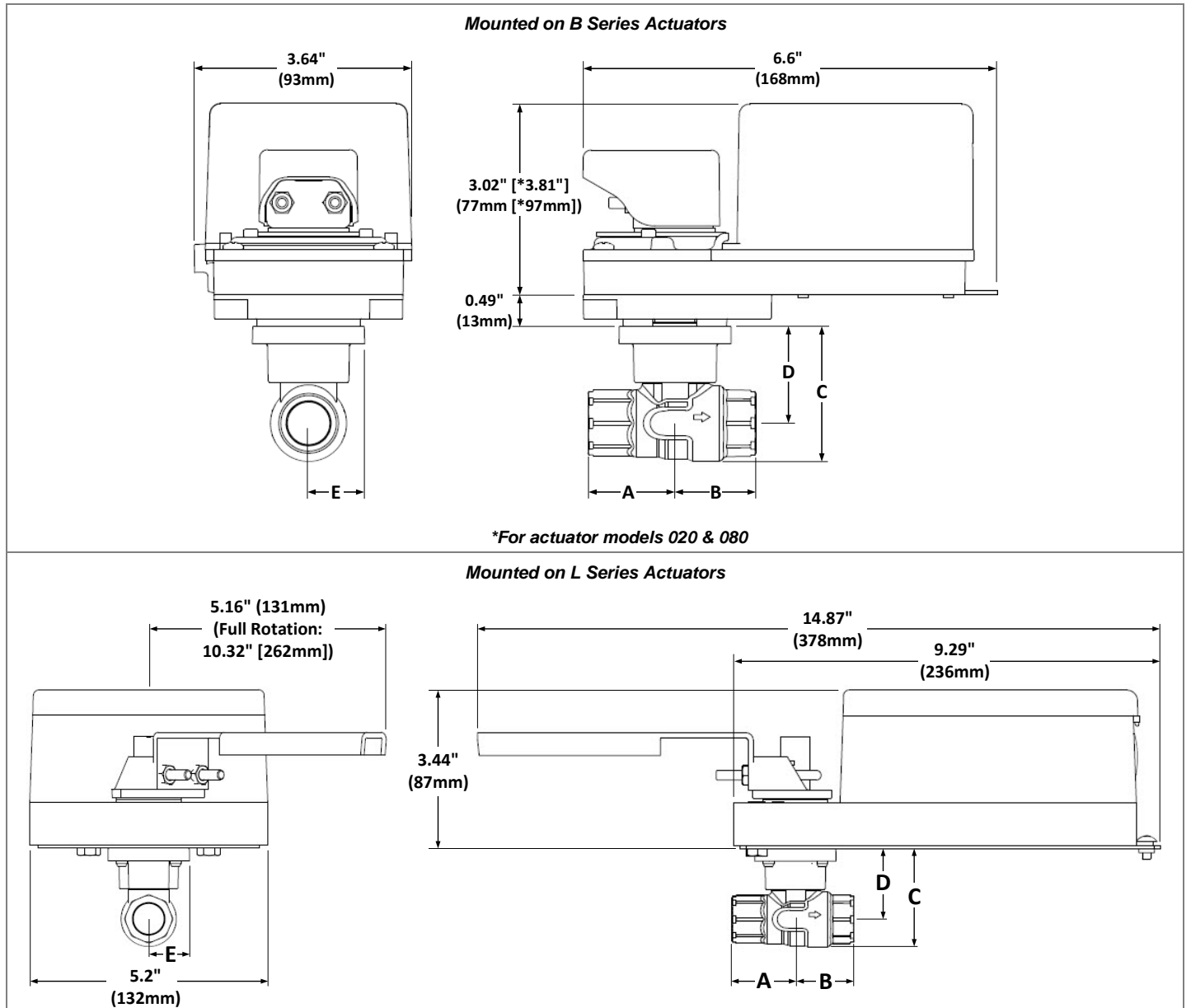


Technical Data

Specification		All Models	
Actuator Compatibility		All Neptronic B and L series actuators	
Sizes		1/2" to 2" [DN15 to DN50]	
Cv [Kv]	Range	0.3 to 230 [0.26 to 199]	
Media	Type	Water, Glycol 60%	
	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	A-AB Port	0%	
Materials	Body	Nickle-Plated Forged Brass	
	Ball and Stem	Chrome Platted Brass	
	Seats	PTFE	
	Characterized Disc	Brass Characterized	
	Stem O-Rings	EPDM	
Flow characteristic	A to AB	Equal %	
	Control angle	75°	
Flow Pattern	Mixing	N/A	
	Diverting	N/A	
Rangeability		100:1	
Valve	Connection	Female NPT	



**Dimensions**



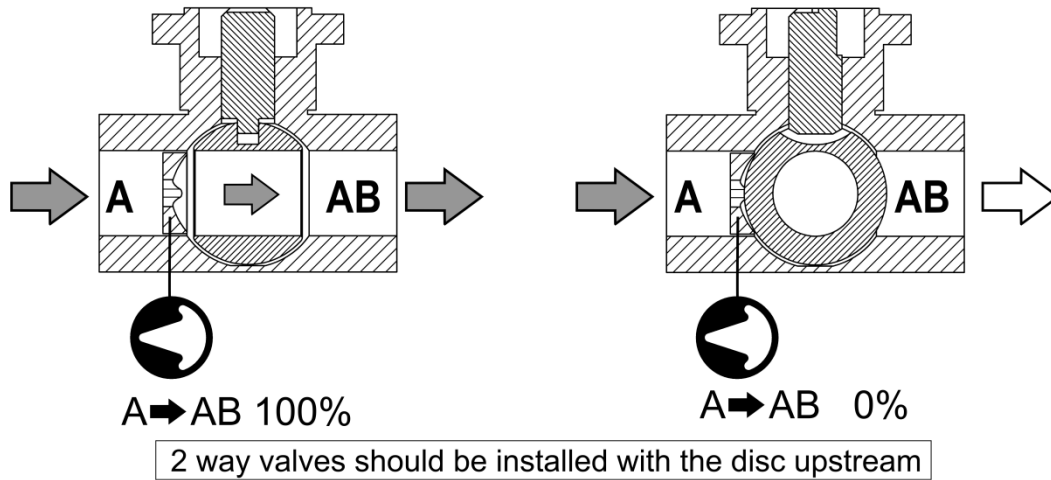
Size	½" [DN15]	¾" [DN20]	1" [DN25]
A	1.38" (35mm)	1.53" (39mm)	1.89" (48mm)
B	1.28" (33mm)	1.48" (38mm)	1.89" (48mm)
C	2.13" (54mm)	2.46" (63mm)	2.81" (72mm)
D	1.53" (39mm)	1.69" (43mm)	1.87" (48mm)
E	0.89" (23mm)	0.89" (23mm)	0.94" (24mm)

Size	1¼" [DN32]	1½" [DN40]	2" [DN50]
A	2.15" (55mm)	2.18" (56mm)	2.76" (70mm)
B	2.01" (51mm)	2.2" (56mm)	2.76" (70mm)
C	3.4" (86mm)	3.4" (86mm)	4.48" (114mm)
D	2.2" (56mm)	2.2" (56mm)	2.73" (69mm)
E	1.2" (31mm)	1.2" (31mm)	1.75" (45mm)



### Mechanical Installation

#### Flow Pattern (2-Way)



### 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.

