

Series

- 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

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 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)	B2A0003PS1	0.3	0.26
	B2A0005PS1	0.46	0.4
	B2A0008PS1	0.8	0.7
	B2A0012PS1	1.2	1
	B2A0019PS1	1.9	1.64
	B2A0030PS1	3	2.6
	B2A0047PS1	4.7	4
	B2A0074PS1	7.4	6.4
	B2A0100PS1	10	8.6
	B2A0160PS1	16	14
3/4" (DN20)	B2B0047PS1	4.7	4
	B2B0074PS1	7.4	6.4
	B2B0100PS1	10	8.6
	B2B0140PS1	14	12
	B2B0240PS1	24	21
1" (DN25)	B2C0074PS1	7.4	6.4
	B2C0100PS1	10	8.6
	B2C0190PS1	19	16
	B2C0300PS1	30	26

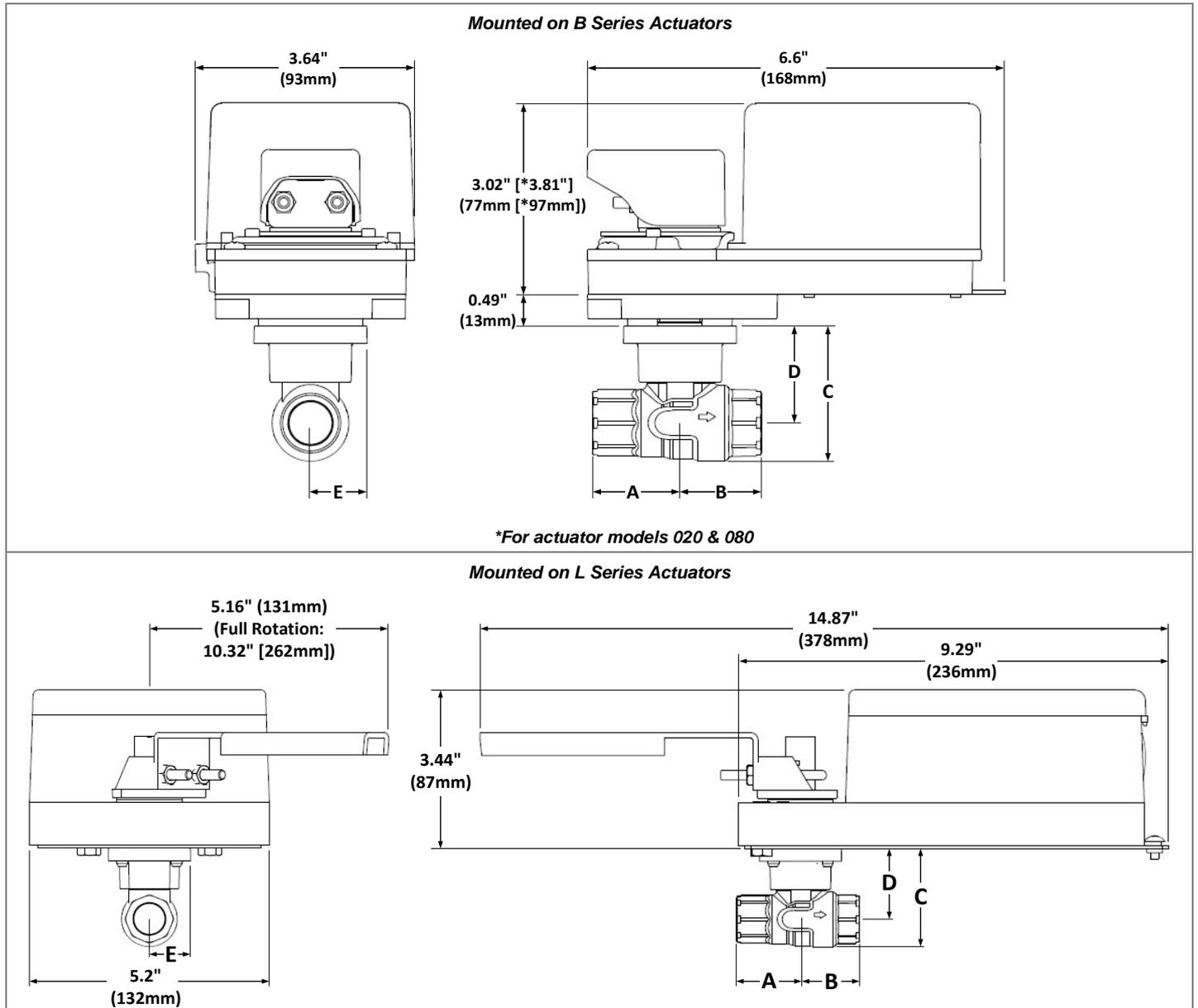
Size	2-Way NPT	Cv	Kv
1 1/4" (DN32)	B2D0100PS1	10	8.6
	B2D0190PS1	19	16
	B2D0250PS1	25	22
	B2D0370PS1	37	32
1 1/2" (DN40)	B2E0190PS1	19	16
	B2E0290PS1	29	25
	B2E0370PS1	37	32
	B2E0460PS1	46	40
2" (DN50)	B2F0290PS1	29	25
	B2F0370PS1	37	32
	B2F0460PS1	46	40
	B2F0570PS1	57	49
	B2F0660PS1	66	57
	B2F0850PS1	85	74
	B2F1200PS1	120	104
	B2F2300PS1	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	Stainless-Steel	
	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

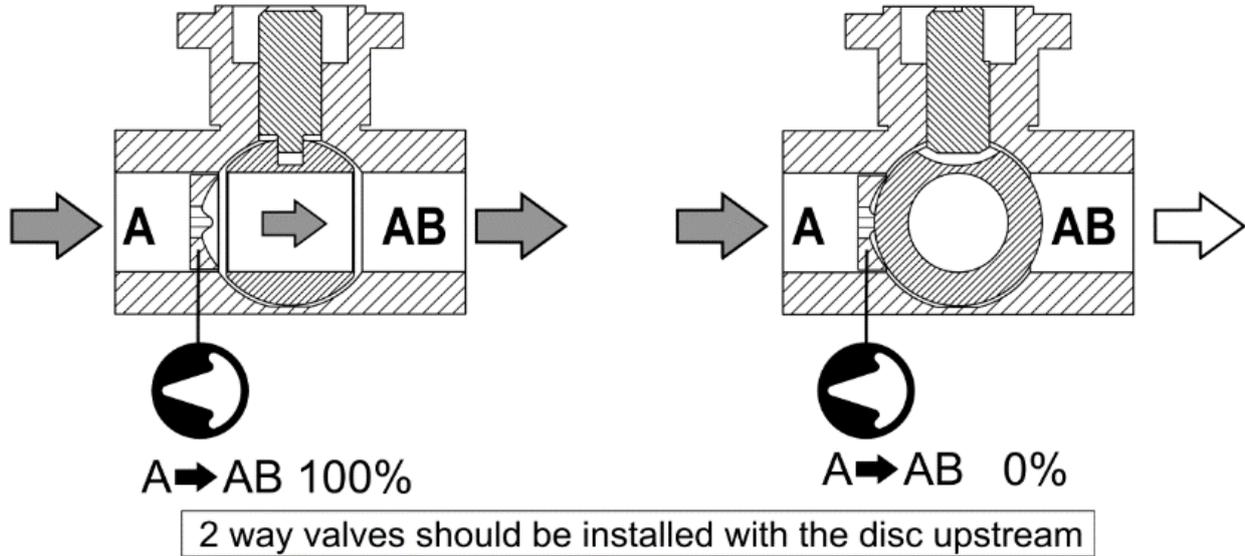


Size	½" [DN15]	¾" [DN20]	1" [DN25]
A	1.38" (35mm)	1.53" (39mm)	1.89" (48mm)
B	1.28" (33mm)	1.48" (38mm)	1.89" (48mm)
C	2.13" (54mm)	2.46" (63mm)	2.81" (72mm)
D	1.53" (39mm)	1.69" (43mm)	1.87" (48mm)
E	0.89" (23mm)	0.89" (23mm)	0.94" (24mm)

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.

