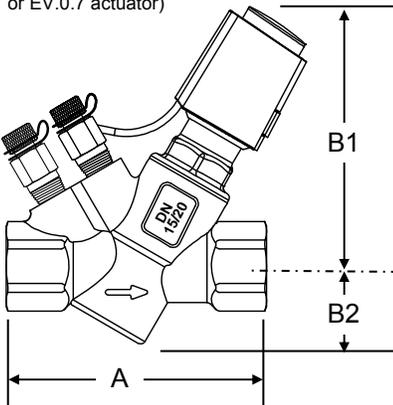


A Valve (Shown with EV.0.3, EV.0.4, EV.0.5 or EV.0.7 actuator)



AB Valve (Shown with EV.0.3, EV.0.4, EV.0.5 or EV.0.7 actuator)

**SPECIFICATIONS:**

- PSI / Temperature Rating:** 360 PSI / 248° F<sup>1</sup>
- Actuator Ambient Temp.:** 32° F to 140° F
- Cartridge:**
  - AISI Type 304 stainless steel
  - AISI Type 17-7 PH stainless steel spring
- Cartridge Retainer:** Brass and Polyoxymethylene
- Body Material:** Forged brass
- End Connections:** Female NPT
- Spindle:** Brass
- Seat Plug and O-Rings:** EPDM
- Body Tappings:** P/T Test Valves on AB Valve Housing
- Shut Off Leakage:** IEC 60534-4 – Class V
- Maximum Close Off:** 58 PSI
- Assembly:** Valve comes fully assembled. Actuator is mounted in the field.

**DIMENSIONS & WEIGHTS (NOMINAL)**

SIZE	MODEL NO.	ACTUATOR	HOUSING	A	B1	B2	Cv <sup>2</sup>	WEIGHT <sup>3</sup> (LBS.)		
1/2"	BZN_040N__	EV.0.2	A	3.2	4.7	1.2	3.45	1.2		
3/4"	BZN_050N__	EV.1.3		3.2				1.1		
1/2"	BZN_040N__	EV.0.3		3.2	4.6			1.2		
3/4"	BZN_050N__	EV.0.4		3.2				1.1		
1/2"	BZN_01BN__	EV.0.2	AB	3.2	4.7			1.2	3.45	1.3
3/4"	BZN_02BN__			EV.1.3						3.7
1"	BZN_09BN__			EV.1.4	4.0					1.8
1/2"	BZN_01BN__	EV.0.3		3.2	4.6					1.3
3/4"	BZN_02BN__		EV.0.4	3.7		1.4				
1"	BZN_09BN__		EV.0.5	4.0	1.8					
		EV.0.7								

**NOTES**

<sup>1</sup> Temperature rating is defined due to no external spindle condensation.  
<sup>2</sup> Cvs are based on housing without cartridge. To calculate pressure drop use the formula  $\Delta P = (GPM/CV)^2$  and add the pressure drop to the cartridge PSID range.  
<sup>3</sup> Weight is valve only. Add Actuator weight on page 2 to get total weight.

Replaces form F-4305

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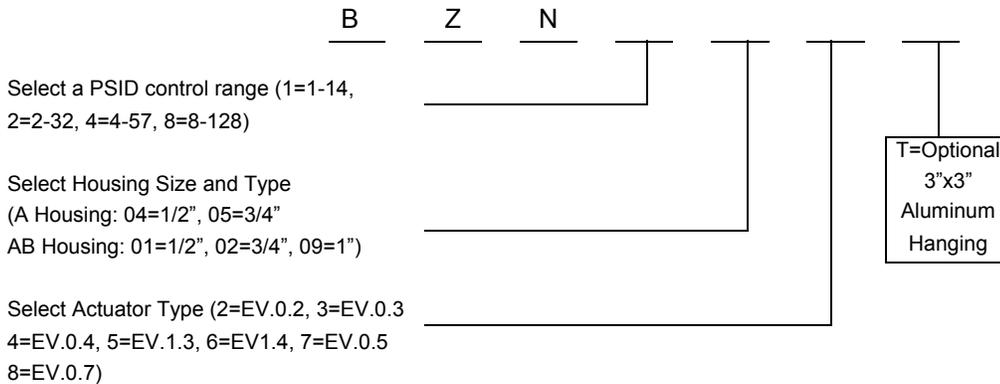
**FLOW RATES (+/-5%)**

SIZE	MODEL NO.	HEAD LOSS IN FEET <sup>4</sup>	PSID RANGE	GPM
1/2"L, 3/4"L,1"	3801	3.5	1-14	0.33, 0.50, 0.67, 1.00, 1.33, 1.67, 2.00, 2.33, 2.67, 3.33, 4.00, 4.67, 5.00
	3802	7.4	2-32	0.55, 0.75, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 5.00, 6.00, 7.00, 8.00
	3804	13.4	4-57	0.75, 1.00, 1.33, 2.00, 2.67, 3.33, 4.00, 4.67, 5.33, 6.67, 8.00, 9.33, 10.00
	3808	30.0	8-128	1.10, 1.50, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 10.0, 12.0, 14.0, 16.0

**ACTUATORS**

ACTUATOR	EV.0.2	EV.0.3	EV.0.4	EV.0.5	EV.0.7	EV.1.3	EV.1.4
Supply Voltage	24Vac -10%/+20% 50/60 Hz	230Vac +/-10% 50/60 Hz	24Vac/dc- 10%/+20% 50/60 Hz	120Vac +/-10% 50/60 Hz	24Vac/dc- 10%/+20% 50/60 Hz	230Vac +/-10% 50/60 Hz	24Vac - 10%/+20% 50/60 Hz
Power Consumption	1 watt	1 watt	1 watt	1 watt	1 watt	1 watt	1 watt
Control Signal	Modulating: 0-10 Vdc	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off
Failsafe <sup>5</sup>	Normally Closed	Normally Closed	Normally Closed	Normally Closed	Normally Open	Normally Closed	Normally Closed
Operation Time	Approx. 2 ½ min	Approx. 4 min	Approx. 4 min	Approx. 4 min	Approx. 4 min	Approx. 4 min	Approx. 4 min
Protection	IP54, Class III	IP54, Class II	IP54, Class III	IP54, Class II	IP54	IP54, Class II	IP54
Cable	Plug-in, 36"	Fixed, 36"	Fixed, 36"	Fixed, 36"	Fixed, 36"	Fixed, 36"	Fixed, 36"
End Switch	No	No	No	No	No	Yes	Yes
Switch Point	N/A	N/A	N/A	N/A	N/A	Approx. 0.08"	Approx. 0.08"
Switch Capacity	N/A	N/A	N/A	N/A	N/A	230Vac, 5A ohm resistive load	24Vac, 3A ohm resistive load
Weight (LBS) <sup>6</sup>	0.28	0.26	0.26	0.26	0.26	0.37	0.37

**MODEL NUMBER SELECTION<sup>7</sup>**



**NOTES**

- <sup>4</sup> Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)
- <sup>5</sup> To ensure the valve is in open position during system commissioning, the actuator will be delivered in normally open position and remain in that position until it is electrically operated the first time.
- <sup>6</sup> Weight includes actuator, adapter ring and cable. Add this weight to valve weight for total weight.
- <sup>7</sup> Model no. and flow rate are indicated on label affixed to body.

Replaces form F-4305

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