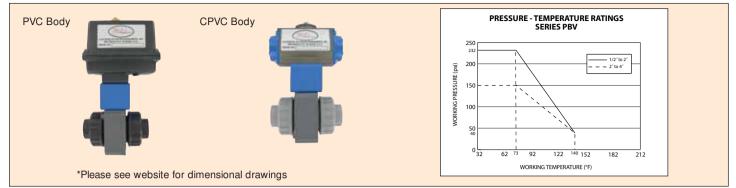
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PBV Automated Ball Valves – Two-Way Plastic

Bectric and Pneumatic Actuators



The Series PBV is ideal for services in industrial, chemical, turf and irrigation, and pool and spa applications, as well as for use with potable water. The valve features a shear-proof stem designed to prevent leakage in the event of damage, reinforced TFE seats and EPDM seals for longer life, and an all-plastic construction (PVC or CPVC) for heavyweight durability at a lightweight cost. Valves also come standard with selectable NPT or socket process connections.

The PBV is an economical automated valve package with either an electric or pneumatic actuator. Electrically actuated models are weatherproof, NEMA 4, powered by standard 115 VAC supply, and are available in either two-position or proportional control. Two-position actuators use the 115 VAC input to drive each of the valve ports open or closed, while the modulating actuator accepts a 4 to 20 mA input for infinite valve positioning. Actuator features include thermal overload protection to withstand stall conditions, visual position indication and a permanently lubricated gear train.

The pneumatic double acting actuator uses an air supply to drive each of the actuator ports. Spring return pneumatic actuators use the air supply to drive the valve stem one direction, and internally loaded springs return the valve to its original position. Also available is the SV3 solenoid valve to electrically switch the supply pressure between the air supply ports. Actuators are constructed of anodized aluminum and are epoxy coated for years of corrosion free service.

Options: Explosion-proof Electric Actuator -Add suffix "EX" to the model number

Optional Electric Actuator Supply Voltages -Contact factory for model number change 24VAC

220VAC, 24VDC, or 12VDC

Solenoid Valve - See Model SV3.

SPECIFICATIONS

Service: Compatible liquids or gases. **Body:** 2-way.

Line Size: 1/2" to 4".

End Connections: Female NPT or socket (field selectable).

Pressure Limit: 1/2" to 2": 232 psi (16.0 bar) @ 73°F (23°C); 2-1/2" to 4": 150 psi (10.3 bar) @ 73°F (23°C) WOG. Vacuum: 29" Hg.

Wetted Materials:

Body, End Connectors: PVC or CPVC. Ball, Stem: PVC or CPVC.

Seat: TFE.

Stem Seal: EPDM.

Temperature Limit: 32 to $140^{\circ}F$ (0 to $60^{\circ}C$).

Other Materials: Stem Bearing: Polypropylene (1-1/4" and up).

ACTUATORS

Electric

Power Requirements: 120 VAC, 50/60 Hz, single phase. Optional 220 VAC, 24 VAC, 12 VDC, and 24 VDC.

Power Consumption: (Locked Rotor Current): Two Position: 1/2'' to 1-1/2'': .55A, 2" to 4": 0.75A. Modulating: 1/2'' to 2": 0.75A, 2-1/2": 1.1A, 3" and 4": 0.75A. **Cycle Time:** (per 90°): Two Position: 1/2'' to 1-1/2'': 2.5 sec., 2" and 2-1/2'': 5 sec., 3" and 4": 15 sec. Modulating: 1/2'' to 2-1/2'': 5 sec., 3" and 4": 15 sec.

Duty Cycle: Two Position: 1/2" to 1-1/2": 75%, 2" to 4": 25%. Modulating: 75%.

Enclosure Rating: NEMA 4. Optional NEMA 7 (Class 1, Div. II groups A, B, C, D).

Housing Material: Aluminum with thermal bonding polyester powder finish. Temperature Limit: 0 to 150°F (-18 to

65°C). Conduit Connection: 1/2" female NPT.

Modulating Input: 4 to 20 mA.

Standard Features: Manual override and visual position indicator except modulating units.

Pneumatic "DA" and "SR" Series

Type: DA series is double acting and SR series is spring return (rack and pinion). Normal Supply Pressure: 80 psi (5.5 bar). Maximum Supply Pressure: 120 psig (8 bar).

Air Connections: 1/4" female NPT.

Air Consumption: (per stroke) DA1: 2.32 cu. in.; DA2: 9.34 cu. in.; DA3: 17.21 cu. in.; DA4: 20.5 cu. in.; SR2: 9.34 cu. in.; SR3: 17.21 cu. in.; SR6: 54.34 cu. in.; SR7: 85.43 cu. in.

Cycle Time: (per 90°) DA1:.03 sec.; DA2: .04 sec.; DA3: .08 sec.; DA4: .12 sec.; SR2: .09 sec.; SR3: .14 sec.; SR6: .46 sec.; SR7: .83 sec.

Housing Material: Anodized aluminum body and epoxy coated aluminum end caps.

Temperature Limit: -4 to 180°F (-20 to 82°C).

Accessory Mounting: NAMUR standard. Standard Features: Visual position indicator.

SERIES PBV AUTOMATED 2-WAY PLASTIC BALL VALVES - PVC MODELS

		Double Acting Pneumatic		Spring Return Pneumatic		Two Position Electric		Modulating Electric		
Size	CV	Model		Model		Model		Model		
1/2″	25	PBVPDA102		PBVPSR202		PBVPU1102		PBVPV1202		
3/4″	51	PBVPDA103		PBVPSR203		PBVPU1103		PBVPV1203		
1″	97	PBVPDA104		PBVPSR204		PBVPU1104		PBVPV1204		
1-1/4″	204	PBVPDA105		PBVPSR205		PBVPU1105		PBVPV1205		
1-1/2″	285	PBVPDA206		PBVPSR306		PBVPU1106		PBVPV1206		
2″	540	PBVPDA207		PBVPSR307		PBVPU1207		PBVPV1207		
2-1/2″	712	PBVPDA308		PBVPSR608		PBVPU1308		PBVPV1308		
3″	1294	PBVPDA309		PBVPSR609		PBVPU1509		PBVPV1509		
4″	2629	PBVPDA410		PBVPSR710		PBVPU1510		PBVPV1510		

SERIES PBV AUTOMATED 2-WAY PLASTIC BALL VALVES - CPVC MODELS

		Double Acting Pneumatic		Spring Return Pneumatic		Two Position Electric		Modulating Electric	
Size	CV	Model		Model		Model		Model	
1/2″	25	PBVCDA102		PBVCSR202		PBVCU1102		PBVCV1202	
3/4″	51	PBVCDA103		PBVCSR203		PBVCU1103		PBVCV1203	
1″	97	PBVCDA104		PBVCSR204		PBVCU1104		PBVCV1204	
1-1/4″	204	PBVCDA105		PBVCSR205		PBVCU1105		PBVCV1205	
1-1/2″	285	PBVCDA206		PBVCSR306		PBVCU1106		PBVCV1206	
2″	540	PBVCDA207		PBVCSR307		PBVCU1207		PBVCV1207	
2-1/2"	712	PBVCDA308		PBVCSR608		PBVCU1308		PBVCV1308	
3″	1294	PBVCDA309		PBVCSR609		PBVCU1509		PBVCV1509	
4″	2629	PBVCDA410		PBVCSR710		PBVCU1510		PBVCV1510	

NOTE: All spring return actuators are factory standard as spring (fail) close. For spring (fail) open valves, add suffix "-FO" to the model number. CALL TO ORDER: U.S. Phone 219 879-8000 • U.K. Phone (+44) (0)1494-461707 • Asia Pacific Phone 61 2 4272-2055

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