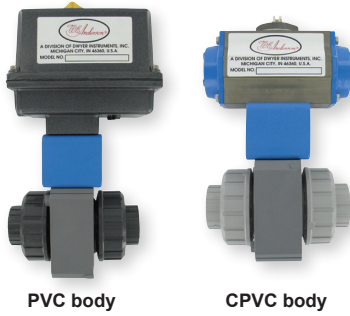




SERIES PBV | W.E. ANDERSON™ BY DWYER

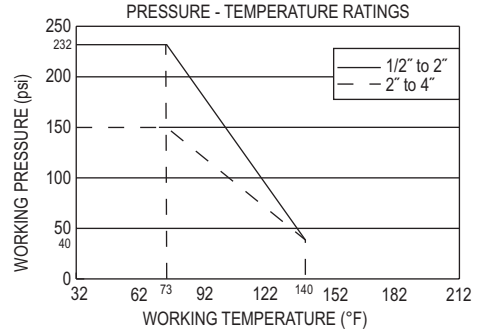
PLASTIC AUTOMATED BALL VALVES

Electric and Pneumatic Actuators



PVC body

CPVC body



The **Series PBV Plastic Automated Ball Valves** are 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 (IP56), 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 4-20 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.

FEATURES/BENEFITS

- Shear proof stem
- All plastic construction

APPLICATIONS

- Gas or liquid flow control

OPTIONS

To order add suffix:	Description	Actuator Size*	Price
-EX	Explosion proof electric actuators	XX1-XX6	+\$288.00 [Ⓟ]

*Example: Third digit in U12 or V12 is the size.

Note: For optional electric actuator supply voltages, contact factory for model number change and +\$83.50[Ⓟ]

[Ⓟ] Items are subject to Schedule B discounts.

MODEL CHART - PVC

Size	Cv	Double Acting Pneumatic		Spring Return Pneumatic		Two Position Electric		Modulating Electric	
		Model	Price	Model	Price	Model	Price	Model	Price
1/2"	25	PBVPDA102	\$371.00 [Ⓟ]	PBVPSR202	\$429.00 [Ⓟ]	PBVPU1102	\$626.00 [Ⓟ]	PBVPV1202	\$2120.00 [Ⓟ]
3/4"	51	PBVPDA103	394.00 [Ⓟ]	PBVPSR203	451.00 [Ⓟ]	PBVPU1103	653.00 [Ⓟ]	PBVPV1203	2169.00 [Ⓟ]
1"	97	PBVPDA104	424.00 [Ⓟ]	PBVPSR204	483.00 [Ⓟ]	PBVPU1104	682.00 [Ⓟ]	PBVPV1204	2238.00 [Ⓟ]
1-1/4"	204	PBVPDA105	474.00 [Ⓟ]	PBVPSR205	535.00 [Ⓟ]	PBVPU1105	732.00 [Ⓟ]	PBVPV1205	2276.00 [Ⓟ]
1-1/2"	285	PBVPDA206	575.00 [Ⓟ]	PBVPSR306	597.00 [Ⓟ]	PBVPU1106	788.00 [Ⓟ]	PBVPV1206	2335.00 [Ⓟ]
2"	540	PBVPDA207	646.00 [Ⓟ]	PBVPSR307	685.00 [Ⓟ]	PBVPU1207	956.00 [Ⓟ]	PBVPV1207	2377.00 [Ⓟ]
2-1/2"	712	PBVPDA308	1149.00 [Ⓟ]	PBVPSR608	1351.00 [Ⓟ]	PBVPU1308	1559.00 [Ⓟ]	PBVPV1308	3195.00 [Ⓟ]
3"	1294	PBVPDA309	1427.00 [Ⓟ]	PBVPSR609	1646.00 [Ⓟ]	PBVPU1509	2326.00 [Ⓟ]	PBVPV1509	3559.00 [Ⓟ]
4"	2629	PBVPDA410	1961.00 [Ⓟ]	PBVPSR710	2226.00 [Ⓟ]	PBVPU1510	3065.00 [Ⓟ]	PBVPV1510	4332.00 [Ⓟ]

Note: All spring return actuators are factory standard as spring (fail) close. For spring (fail) open valves, add suffix "-FO" to the model number.

[Ⓟ] Items are subject to Schedule B discounts.

MODEL CHART - CPVC

Size	Cv	Double Acting Pneumatic		Spring Return Pneumatic		Two Position Electric		Modulating Electric	
		Model	Price	Model	Price	Model	Price	Model	Price
1/2"	25	PBVCDA102	\$402.00 [Ⓟ]	PBVCSR202	\$484.00 [Ⓟ]	PBVUCU1102	\$655.00 [Ⓟ]	PBVCV1202	\$2111.00 [Ⓟ]
3/4"	51	PBVCDA103	437.00 [Ⓟ]	PBVCSR203	522.00 [Ⓟ]	PBVUCU1103	689.00 [Ⓟ]	PBVCV1203	2141.00 [Ⓟ]
1"	97	PBVCDA104	479.00 [Ⓟ]	PBVCSR204	560.00 [Ⓟ]	PBVUCU1104	722.00 [Ⓟ]	PBVCV1204	2182.00 [Ⓟ]
1-1/4"	204	PBVCDA105	648.00 [Ⓟ]	PBVCSR205	744.00 [Ⓟ]	PBVUCU1105	895.00 [Ⓟ]	PBVCV1205	2346.00 [Ⓟ]
1-1/2"	285	PBVCDA206	725.00 [Ⓟ]	PBVCSR306	793.00 [Ⓟ]	PBVUCU1106	914.00 [Ⓟ]	PBVCV1206	2373.00 [Ⓟ]
2"	540	PBVCDA207	832.00 [Ⓟ]	PBVCSR307	882.00 [Ⓟ]	PBVUCU1207	1133.00 [Ⓟ]	PBVCV1207	2476.00 [Ⓟ]
2-1/2"	712	PBVCDA308	1576.00 [Ⓟ]	PBVCSR608	1751.00 [Ⓟ]	PBVUCU1308	1949.00 [Ⓟ]	PBVCV1308	3455.00 [Ⓟ]
3"	1294	PBVCDA309	1755.00 [Ⓟ]	PBVCSR609	1937.00 [Ⓟ]	PBVUCU1509	2271.00 [Ⓟ]	PBVCV1509	3612.00 [Ⓟ]
4"	2629	PBVCDA410	2777.00 [Ⓟ]	PBVCSR710	3002.00 [Ⓟ]	PBVUCU1510	3902.00 [Ⓟ]	PBVCV1510	5064.00 [Ⓟ]

Note: All spring return actuators are factory standard as spring (fail) close. For spring (fail) open valves, add suffix "-FO" to the model number.

[Ⓟ] Items are subject to Schedule B discounts.

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°F (0 to 60°C).
Other Materials: Stem bearing: Polypropylene (1-1/4" and up).

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: 4-20 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: DA/SR1 to 5: 1/8" female NPT, all other sizes: 1/4" female NPT.
Air Consumption: (per stroke) DA1: 2.32 in3; DA2: 9.34 in3; DA3: 17.21 in3; DA4: 20.5 in3; SR2: 9.34 in3; SR3: 17.21 in3; SR6: 54.34 in3; SR7: 85.43 in3.
Cycle Time: (per 90°) DA1: .03 s; DA2: .04 s; DA3: .08 s; DA4: .12 s; SR2: .09 s; SR3: .14 s; SR6: .46 s; SR7: .83 s.
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.

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": .55 A, 2" to 4": 0.75 A. Modulating: 1/2" to 2": 0.75 A, 2-1/2": 1.1 A, 3" and 4": 0.75 A.
Cycle Time: (per 90°): Two position: 1/2" to 1-1/2": 2.5 s, 2" and 2-1/2": 5 s, 3" and 4": 15 s; Modulating: 1/2" to 2-1/2": 5 s, 3" and 4": 15 s.
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).

Valves, Ball, Automated