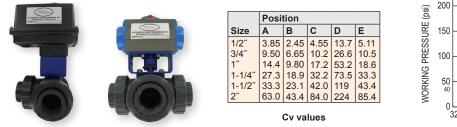
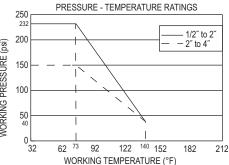
3-WAY PLASTIC AUTOMATED BALL VALVES



Electric and Pneumatic Actuators





The Series 3PBV 3-Way Plastic Automated Ball Valves are ideal for mixing or diverting services in industrial, chemical, turf and irrigation, and pool and spa applications, as well as for use with potable water. The valve features a 3-seat design for efficient automation, reinforced TFE seats and EPDM seals for longer life, and an all PVC construction for heavyweight durability at a lightweight cost. Valves also come standard with field selectable NPT or socket process connections.

The 3PBV 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

· Available with a variety of electric and pneumatic actuators · Field selectable socket or NPT connections

APPLICATIONS

Valves, Automated

Ball

· Gas or liquid flow control

· Mixing or diverting liquids and gases

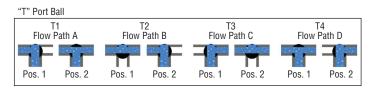
HOW TO ORDER:

Select Model Number to specify pipe size and actuator. Choose a Port Configuration to determine valve flow path. Example: 3PBVPSR204-L1

MODEL CHART							
		Double Acting Pneumatic	Spring Return Pneumatic	Two Position Electric	Modulating Electric		
Size	Cv	Model*	Model*	Model*	Model*		
1/2″	See	3PBVPDA102	3PBVPSR202	3PBVPU1102	3PBVPV1202		
3/4″	Chart	3PBVPDA103	3PBVPSR203	3PBVPU1103	3PBVPV1203		
1″	Below	3PBVPDA104	3PBVPSR204	3PBVPU1104	3PBVPV1204		
1-1/4″		3PBVPDA105	3PBVPSR205	3PBVPU1105	3PBVPV1205		
1-1/2″		3PBVPDA206	3PBVPSR306	3PBVPU1206	3PBVPV1206		
2″		3PBVPDA207	3PBVPSR307	3PBVPU1207	3PBVPV1207		
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*Complete model includes Port Configuration - see "How to Order".

OPTIONS				
To order add suffix:	Description	Actuator Size*		
-EX	Explosion proof electric actuators	XX1-XX6		
*Example: Third digit	Example: Third digit in U12 or V12 is the size ote: For optional electric acutator supply voltages, contact factory for lodel number change			
Note: For optional ele				



SPECIFICATIONS Service: Compatible liquids or gases. Temperature Limit: 0 to 150°F (-18 to Body: 3-way. 65°C) Line Size: 1/2" to 2" Conduit Connection: 1/2" female NPT. End Connections: Female NPT or Modulating Input: 4-20 mA. socket (field-selectable). Pressure Limit: 1/2" to 1": 232 psi (16.0 bar) @ 73°F (23°C); 1-1/4" to 2": 150 psi (10.3 bar) @ 73°F (23°C) WOG; Vacuum: 29" Hg. See chart for curve. Wetted Materials: Body, end connectors: PVC; Ball, stem: PVC; Seat: TFE; Stem seal: EPDM. pinion) Temperature Limit: 32 to 140°F (0 to 60°C). bar) ACTUATORS (8 bar) Electric Power Requirements: 120 VAC, 50/60 Hz, single phase. Optional 220 VAC, 24 NPT VAC, 12 VDC, and 24 VDC. Power Consumption (Locked Rotor Current): Two position: 1/2" to 1-1/2":

.55 A, 2": 0.75 A; Modulating: 0.75 A. Cycle Time: (per 90°): Two position: 1/2" to 1-1/2": 2.5 s, 2": 5 s; Modulating: 5 s. Duty Cycle: Two position: 1/2" to 1-1/2": 75%, 2": 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.



female NPT, all other sizes: 1/4" female

Air Consumption (per stroke): DA1: 2.32 in³; DA2, SR2: 9.34 in³; SR3: 17.21

Cycle Time (per 90°): DA1: .03 s; DA2: .04 s; SR2: .09 s; SR3: .14 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

