Valves, Ball

1. Select a Port Configuration to determine valve flow path.
Example: 3PBVPV1204-L3

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The Series 3PBV is 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 seat design for efficient automation, reinforced TFE seats and EPDM seals for longer life, and all PVC construction for heavyweight durability at a lightweight cost. Valves also come standard with field selectable NPT or socket process connections. The Series 3PBV is an economical automated valve package with either an electric or pneumatic actuator. Electrically actuated models are weatherproof, NEMA 4 (IP56), powered by 120 VAC, 12 VDC, or 24 VDC. Pneumatic double acting actuator uses an air supply to drive each of the actuator ports. The pneumatic double acting actuator uses 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 modulating actuator accepts a 4 to 20 mA input for infinite valve positioning.

**Specifications**
- **Service:** Compatible liquids or gases.
- **Body:** 3-way.
- **Line Size:** 1/2” to 2”.
- **End Connections:** Female NPT or 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.
- **Temperature Limit:** 32 to 140°F (0 to 60°C).

**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”: 0.055 A; 2”: 0.07 A; Modulating: 0.075 A.
  - **Cycle Time:** 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.
  - **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:** DA/SR1 to 5: 1/8” female NPT, all other sizes: 1/4” female NPT.

**Options**
- **Explosion Proof Electric Actuators**
- **Optional Electric Actuator Supply Voltages**
- **Solenoid Valve** - See Model SV3.