PTP Series valves can be used for flow diverting, mixing, or on/off isolation. They replace a Tee + 2 valve linkage assembly at reduced cost and space, along with shorter installation and maintenance time. The patented Dual Block® system allows the valve to excel in working conditions where vibrations and thermal expansion may affect the performance of ordinary ball valves. The system incorporates a union nut locking device on all three ports, which prevents back-off during severe service conditions.

An integral mounting flange and bracket allows for direct actuation and simple support, while a locking handle prevents improper positioning. The exclusive handle design can be equipped with an engineered block that locks the valve in open and closed positions, without increasing the overall valve dimension – critical for small diameter, small space applications.

FEATURES
- Patented seat stop carrier allows for in-line microadjustment of the ball seating, featuring o-ring cushioning to minimize wear and prevent seizing.
- Multifunctional handle provides compact design and precision joining with the valve stem.
- Stem ball connection is fully machined after molding, giving very precise dimension tolerances. This provides reduced torque transmission and high mechanical resistance.
- Two O-rings assure perfect stem sealing.
- Red optical indicator at top of stem clearly shows the position of the ball ports.
- An integrated molded bracket for valve and pipeline mounting is standard.
- Integrated valve support and ISO actuator pads are available.

ACTUATOR CONFIGURATIONS
- Electric.
- Pneumatic (spring return).
- Pneumatic (double acting).
- Manual handle lever.

MAXIMUM PRESSURE
232 PSI (at 73°F)

TEMPERATURE RANGE
32°F to 140°F

MATERIALS OF CONSTRUCTION
Body: PVC.
Seats: PTFE.
Seals: EPDM or Viton® (FKM).

SPECIFICATIONS
Connections: 1/2” to 2” NPT threaded or IPS socket.

PORT ARRANGEMENTS

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<th>L Port</th>
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PTP Series

PVC 3-way ball valve
(1/2” to 2” sizes available)

CV FACTORS

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Parts

1. Insert: U-PVC.
2. Handle: U-PVC.
4. Safety Handle Block: PP-GR.
5. Stem O-ring: EPDM-FKM.
6. Position Indicator: POM.
7. Stem: U-PVC.
8. Dual Block*: POM.
10. Support O-ring for Ball Seat: EPDM-FKM.
11. Ball Seat: PTFE.
12. Ball: U-PVC.
13. Radial Seal O-ring: EPDM-FKM.
14. Support for Ball Seat: U-PVC.
15. Stop Ring: U-PVC.
16. Socket Seal O-ring: EPDM-FKM.
17. End Connector: U-PVC.
18. Union Nut: U-PVC.

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PTPM Series

Full port PVC ball valve
(NPT threaded or IPS socket end connections)

PTP VALVE FEATURES

• Full port PVC body and ball.
• Bow out proof stem.
• NPT and socket weld end connections.
• PTFE seals.
• Viton® or EPDM stem and body seals.
• Optional actuator mounting block.
• Pressure range: 232 PSI (at 73°F).

LEVER HANDLE FEATURES

• Locking device.

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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PTPESR Series

Full port PVC ball valve with spring return pneumatic actuator
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

PTP VALVE FEATURES

- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

PNEUMATIC ACTUATOR FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: \(-4°F\) to \(175°F\).

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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<tr>
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</table>

Note: 1/2" size valve is assembled with fabricated mounting kit and not direct mount.

PTP VALVE FEATURES

- E Series spring return rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: \(-4°F\) to \(175°F\).
PTPEDA Series

Full port PVC ball valve with double acting pneumatic actuator
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<th>E</th>
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<th>G</th>
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© Seal Material: E = EPDM; V = Viton®. © End Connection: N = NPT; S = Glued Socket. © Flow Pattern: A, D, E, F, G.
Note: 1/2" size valve is assembled with fabricated mounting kit and not direct mount.

PTP VALVE FEATURES
- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

PNEUMATIC ACTUATOR FEATURES
- E Series double acting rack and pinion actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicator.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

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PTPOS Series

Full port PVC ball valve with spring return pneumatic actuator  
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

---

PTP VALVE FEATURES
- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73˚F).

PNEUMATIC ACTUATOR FEATURES
- O Series spring return pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.

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DIMENSIONS, WEIGHTS & SPECIFICATIONS

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PTPODA Series

Full port PVC ball valve with double acting pneumatic actuator
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

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**DIMENSIONS, WEIGHTS & SPECIFICATIONS**

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<tr>
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© Seal Material: E = EPDM; V = Viton®. © End Connection: N = NPT; S = Glued Socket. © Flow Pattern: A, D, E, F, G.

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**PTP VALVE FEATURES**
- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

---

**PNEUMATIC ACTUATOR FEATURES**
- O Series double acting pneumatic actuator.
- Corrosion resistant coating.
- NAMUR solenoid mounting pad, ISO 5211 mounting standard.
- Visual position indicators.
- High duty cycle, permanent lubrication.
- Temperature range: -4°F to 175°F.
PTPR4 Series

Full port PVC ball valve with electric actuator, NEMA 4, 4X
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<th>Actuator</th>
<th>Wt.(lbs.)</th>
<th>Model No.</th>
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Dimensions and weights are approximate and subject to change. Please contact us for the most recent product and technical information. Visit our website for more details: assuredautomation.com

PTP VALVE FEATURES
- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

ELECTRIC ACTUATOR FEATURES
- R Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 12 VDC, 24 VDC.
- Duty cycle: 25% at 120 VAC, 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0°F to 150°F.
PTPV4 Series

Full port PVC ball valve with electric actuator, NEMA 4, 4X
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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PTP VALVE FEATURES
- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73˚F).

ELECTRIC ACTUATOR FEATURES
- V Series electric actuator.
- NEMA 4, 4X.
- Voltages available: 120 VAC, 220 VAC, 24 VAC, 12 VDC, 24VDC.
- Duty cycle: 25% at 120 VAC (EV1), 75% at 120 VAC (EV3, NV6), 100% at DC units.
- ISO 5211 universal mounting.
- Manual override.
- Permanent lubrication.
- Visual position indicator.
- Temperature range: 0˚F to 160˚F.

© Seal Material: E = EPDM; V = Viton®.
© End Connection: N = NPT; S = Glued Socket.
© Flow Pattern: A, D, E, F, G.
© Voltage: A = 120 VAC; B = 24 VDC; C = 220 VAC; E = 24 VAC; F = 12 VDC.
PTPB7 Series 1/2" to 1-1/4" Sizes

Full port PVC ball valve with explosion proof electric actuator, NEMA 7, 120 VAC
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

PTP VALVE FEATURES
- Full port PVC body and ball.
- Bow out proof stem.
- NPT and socket weld end connections.
- PTFE seals.
- Viton® or EPDM stem and body seals.
- Optional actuator mounting block.
- Pressure range: 232 PSI (at 73°F).

ELECTRIC ACTUATOR FEATURES
- B7 Series electric actuator.
- Actuator speed: 15 sec.
- NEMA 4, 4x, 7 and 9; CSA approved.
- Weatherproof.
- Class I Groups C and D, Div. 1.
- Class II Groups E, F and G.
- (2) 1/2" NPT conduit entries.
- Manual override.
- Visual position indicator.
- CSA certified.
- Temperature range: 0°F to 160°F.

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PTPB7 Series 1-1/2” to 2” Sizes

Full port PVC ball valve with explosion proof electric actuator, NEMA 7, 120 VAC
(NPT threaded or IPS socket end connections, actuators are sized for 150 PSI pressure differential)

PTP VALVE FEATURES
• Full port PVC body and ball.
• Bow out proof stem.
• NPT and socket weld end connections.
• PTFE seals.
• Viton® or EPDM stem and body seals.
• Optional actuator mounting block.
• Pressure range: 232 PSI (at 73°F).

ELECTRIC ACTUATOR FEATURES
• B7 Series electric actuator.
• Actuator speed: 15 sec.
• NEMA 4, 7 and 9; CSA approved.
• Weatherproof.
• Class I Groups C and D, Div. 1.
• Class II Groups E, F and G.
• (2) 1/2” NPT conduit entries.
• Manual override.
• Visual position indicator.
• CSA certified.
• Temperature range: 0°F to 160°F.

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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<th>B</th>
<th>C</th>
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© Seal Material: E = EPDM; V = Viton®. © End Connection: N = NPT; S = Glued Socket. © Flow Pattern: A, D, E, F, G.