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 heavy-duty 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 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.

### 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).

**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:** 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: .04 s; DA2: .08 s; DA3: .12 s; DA4: .15 s; SR2: .03 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.

### OPTIONS

**Explosion Proof Electric Actuators**

- Add “-EX” to model number

**Optional Electric Actuator Supply Voltages**

- Contact factory for model number change

### Filters and Regulators

See pages 527-530 for information on filters and regulators.