Automated Two-Piece Brass Ball Valve

Electric and Pneumatic Actuators

**Series ABV**

**Incorporates a full port brass ball valve for great flow rates with minimal pressure drop. The valve features a blowout proof stem for added safety, reinforced PTFE seats and seals for longer life, and a chrome/nickel plated ball for better performance. Actuators are direct mounted creating a compact assembly for tight spaces. Double O-ring stem seals assure leak free operation.**

The ABV Series is an economical automated valve package with either an electric or pneumatic actuator. Electric actuated models are weatherproof, NEMA 4, 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 the valve open or closed, while the modulating actuator accepts a 4 to 20 mA input for infinite valve positioning. Actuator features thermal overload protection and a permanently lubricated gear train.

The pneumatic double acting actuator uses an air supply to drive the valve open and closed. The pneumatic double acting actuator uses an air supply to drive the valve open and closed. The actuator has two supply ports with one driving the valve open and the other driving the valve closed. Spring return pneumatic actuator uses the air supply to open the valve and internally loaded springs return the valve to the closed position. Also available is the SV3 Series incorporating a full port brass ball valve for great flow rates with minimal pressure drop.

**Features**

- Full port brass ball valve
- Direct mount actuators for compact assembly
- Electric actuator that is rated NEMA 4 and is available in two position or modulating
- Pneumatic double acting or spring return rack and pinion actuator

**Specifications**

- **Body:** 2-piece.
- **Line Size:** 1/4” to 4”.
- **Electrical Connection:** Female NPT.
- **Pressure Limit:** 0 to 150°F (-17 to 65°C).
- **Normal Supply Pressure:** 115 VAC, 50/60 Hz, single phase. Optional 220 VAC, 24 VAC, 12 VDC, and 24 VDC.
- **Cycle Time (per 90°):** DA1: 2.32 m³; DA2, SR2: 9.34 m³; DA3, SR3: 17.21 m³; DA5, SR5: 39.54 m³; SR6: 54.37 m³.
- **Duty Cycle:** DA1: 75%; DA2, SR2: 25%; DA3, SR3: 15%; DA5, SR5: 5%. Non-return valves have a modulating valve and a modulating position indicator.
- **Housing Material:** NEMA 4 (IP56).
- **Housing Material:** Aluminum with thermal bonding polyester powder finish.
- **Modulating Electric:** EXPLOSION PROOF.
- **Explosion Proof Electric Actuators:** Add “-EX” to model number.

For fillers or regulators see pages 562 through 566.