**Automated Two-Piece Stainless Steel Ball Valve**

**Electric and Pneumatic Actuators**

**BV2 Series Automated Ball Valves:**
- BV2B Series is a modulating electric actuator that is rated NEMA 4X
- BV2L Series is a low cost electric actuator that is rated NEMA 2 and is available in 120 VAC or 24 VAC/DC power supply with or without spring return
- BV2F Series is a pneumatic double acting rack and pinion actuator
- BV2J Series is a pneumatic spring return rack and pinion actuator
- BV2C Series is a pneumatic spring return rack and pinion actuator that is specifically for adverse environments and corrosive process materials

**The Series BV2B** incorporates a weatherproof, NEMA 4X, electric actuator powered by standard 115 VAC supply. The BV2B provides an economical weatherproof automated valve package. The modulating actuator accepts a 4 to 20 mA input for infinite valve positioning. Actuator features a single phase capacitor run motor with overload protection and a permanently lubricated gear train.

**The Series BV2L** is a low cost electric actuator combined with our durable two-piece stainless steel ball valve to make a compact, low cost, automated valve package. Electric actuators are available in either 24 VAC/DC or 120 VAC supply voltage. Spring return models return the valve to its fail-safe position upon loss of power and are factory supplied to return to the closed position upon failure. The BV2L is an ideal valve package for HVAC applications and OEM’s such as boiler manufacturers.

**The Series BV2F** is pneumatic double acting, rack and pinion actuated. The double acting actuator uses a pneumatic 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. Available is a factory installed solenoid valve to electrically switch the air supply pressure between the air supply ports for opening and closing the valve. Actuators are constructed of anodized and polyurethane coated aluminum for years of corrosion free service.

**The Series BV2J** is the spring return version of the BV2F. The actuator uses the air supply to open the valve and internally loaded springs return the valve to the closed position.

**The Series BV2C** is designed to withstand the toughest environments. Incorporated in the BV2C is our two-piece stainless steel ball valve coupled with a pneumatic spring return rack and pinion actuator. The actuator body is constructed of glass-filled polyester with 303 SS shaft, polyaramide pistons, cylinder guides, and racks to provide optimum protection from adverse environments and corrosive process materials. All mounting hardware and couplings are constructed of 316 SS. This series is ideal for pharmaceutical, chemical, food and dairy, or pulp and paper industries where metal actuators would not survive.
SPECIFICATIONS

Body: 2- piece.
Line Size: 1/4” to 2”.
End Connections: Female NPT.
Pressure Limit: 1000 psi (69 bar) WOG, 150 psi (10.3 bar) SWP.

Wetted Materials:
- Body, end cap: CF8M SS (316 SS);
- Stem: 316 SS;
- Seat, thrust washer: RTFE;
- End gasket, stem packing: PTFE.
- Body, end cap, stem: Anodized aluminum body and polyurethane coated aluminum end caps.
- Body, end cap: Glass filled polyester body and end caps.

Electric “L” Series
Power Requirements: L9, LQ: 4.0 lb (.91 kg); L2, L3: 4.0 lb (1.81 kg); L4, L5, LQ: 7.5 lb (3.4 kg), J5: 13.2 lb (6.0 kg).

Power Consumption: L9, LQ: 2.0 W; L1, L2, L3, L4, L5, LQ: 3.0 W; L6, L7, LR, LS: 5 W; LS, LT: 5 W.

Cycle Time (per 90°): L9, LQ: 1.0 sec.; L1, L2, L3, L4, L5, LQ: 2.0 sec.; LS, LT: 3.5 sec.; LR, LS: 5.5 sec.

Duty Rating: Continuous.

Enclosure Rating: NEMA 2.
Temperature Limits: -20 to 210°F (-29 to 98°C).

Electrical Connection: 3 ft, 18 GA cable and 1/2” conduit connector (except LS).
Weight: C1: 1.5 lb (.68 kg), C2: 3.0 lb (1.36 kg), C3: 6.0 lb (2.72 kg).

Approvals: UL, cETL, CE (except L1), CSA.
Features: Position indicator.

Pneumatic “F” and “J” Series
Type: F Series is double acting and J Series spring return (rack and pinion).
Normal Supply Pressure: 80 psi (5.5 bar).
Maximum Supply Pressure: 125 psig (8.6 bar).
Air Connections: 1/4” female NPT.
Air Consumption (per stroke): F1, J1: 9.6 cu. in.; F2, J2: 11.4 cu. in.; F3, J3: 27.5 cu. in., J5: 55.5 cu. in.
Cycle Time (per 90°): F: 1 sec.; J: 2 sec.

Housing Material: Anodized aluminum body and polyurethane coated aluminum end caps.

Temperature Limit: -31 to 230°F (-35 to 110°C).

Accessory Mounting: NAMUR standard.

Standard Features: Position indicator.

Weight: F1, J1: 2.0 lb (.91 kg); F2, J2: 4.0 lb (1.81 kg); F3, J3: 7.5 lb (3.4 kg), J5: 13.2 lb (6.0 kg).

Pneumatic “C” Series
Type: Spring return (rack and pinion).
Normal Supply Pressure: 80 psi (5.5 bar) [Can use air, water, or any other non-aggressive fluid].

Maximum Supply Pressure: 120 psig (8.3 bar).

Air Connections: 1/4” female NPT.

Air Consumption (per stroke): C1: 4.58 cu. in., C2: 9.15 cu. in., C3: 21.4 cu. in.

Cycle Time (per 90°): Open/closed: C1: 0.15/0.30 sec., C2: 0.20/0.40 sec, C3: 0.60/1.10 sec.

Housing Material: Glass filled polyester body and endcaps.


Temperature Limit: -25 to 195°F (-32 to 90°C).

Accessory Mounting: NAMUR standard.

Standard Features: Position indicator.

Weight: C1: 1.5 lb (.68 kg), C2: 3.0 lb (1.36 kg), C3: 6.0 lb (2.72 kg).

Valves, Ball

CALL TO ORDER: U.S. Phone 219 879-8000 • U.K. Phone (+44) (0)1494-461707 • Australia Phone (+61) (0) 2 4272 2055