Series BV2-F1 ball valves offer ANSI 150# flanged ends for easy installation. 1/2" through 4" sizes are standard for great flow rates with minimal pressure drop. The valve features a blowout-proof stem for added safety, reinforced TFE seats and seals for longer life, and a 316 SS (ASTM A55 GE CF8M) ball for better performance. Actuators are directly mounted, creating a compact assembly for tight spaces. Double O-ring stem seals assure leak-free operation.

The BV2-F1 Series is an economical automated valve package with either an electric or pneumatic actuator. Electrically 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 actuator has two supply ports with one driving the valve open and the other driving the valve closed. Spring return pneumatic actuators use the air supply to open the valve and internally loaded springs return the valve to the closed position. Also available is the 316 stainless steel valve to electrically switch the air supply pressure between the air supply ports for opening and closing the valve. Actuators are constructed of anodized alloy coated aluminum for years of corrosion-free service.

FEATURES
• 150# full port flanged ball valve
• 2-piece SS investment cast body
• TFE seats and seals
• Ideal for industrial operations
• Electric or pneumatic actuators

SPECIFICATIONS
Body: 2 – piece.
Line Size: 1/2" to 4".
End Connections: 150# Flange.
Pressure Limit: 150 psi (10.3 bar).
Wetted Materials: Body, end cap, stem: 316 SS; Ball: 316 SS; Seat, stem seal: PTFE.
Temperature Limit: -40 to 450°F (-40 to 232°C).
Other Materials: Body seal, body O-ring, stem O-ring: Fluoroelastomer.

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" 0.05 A, 3/4" and 1" 0.75 A, 1-1/2" to 2-1/2" 0.99 A; 3" and 4" 1.1 A; Modulating: 1/4" to 3/4", 0.55 A, 1" to 1-1/2" 0.75 A, 2" 0.75 A, 2-1/2" 0.75 A, 3" and 4" 1.1 A.
Cycle Time (per 90°): Two position: 1/2" 2.5 s, 3/4" to 1-1/2" 5 s, 2" to 3" 15 s, 4" 30 s; Modulating: 1/2" to 1-1/2" 10 s, 2" and 2-1/2" 20 s, 3" and 4" 30 s.
Duty Rating: Two position: 1/2" 75%, 3/4" to 4" 25%; Modulating: 75%.
Enclosure Rating: NEMA 4, Optional NEMA 7.
Housing Material: Aluminum with thermal bonding polyester powder finish.
Temperature Limit: 0 to 150°F (-18 to 65°C).

Pneumatic
Power Consumption: 70-120 PSI (4.8-8.3 bar) at 90 PSI (6.3 bar) inlet pressure.
Cycle Time (per 90°): DA1: 1.0 s; DA2: 0.5 s; DA3: 0.8 s; DA4: 0.8 s; DA5: 0.8 s.
Duty Rating: Two position: 1/2" 75%, 3/4" to 4" 25%; Modulating: 75%.
Housing Material: Anodized aluminum body and epoxy coated aluminum end caps.
Temperature Limit: -4 to 180°F (-20 to 82°C).

ACTUATOR OPTIONS
Explosion Proof Electric Actuators - add “EX” to model number.

APPLICATIONS
• Electric or pneumatic actuators
• Ideal for industrial operations
• Spring return actuators are factory standard as spring (fail) close.
• Optional Electric Actuator Supply Voltages: 115VAC, 220VAC, 20.5VDC, 24VDC, 12VDC.
• Solenoid Valve - See Model SV3.

**Tables and diagrams are not shown in this text.**