



**STYLE 7940,7960  
OPERATING AND MAINTENANCE INSTRUCTIONS  
BUTTERFLY VALVE**

The Akron Brass Butterfly Valve is designed to operate most efficiently in the full open position. There are four types of Actuators available: Handwheel Gear Operator, Pneumatic Operator, Offset Handle, and Electric Actuator & Control. Valves equipped with a Pneumatic Operator should have the valve wafer in a fully open or fully closed position. It is not designed to be throttled. If it is throttled the wafer may drift open or closed unless it is equipped with a pneumatic positioner. Valves equipped with an Offset Handle do not meet NFPA 1901 standards.

For valves equipped with the Handwheel Gear Operator, close the valve by turning the handwheel clockwise and open by turning the handwheel counter-clockwise. Five turns of the handwheel are necessary to open or close the valve. The valve should NOT be opened or closed any faster than 3 seconds.

For valves equipped with the Pneumatic Actuator, the required operating air pressure is 60 to 120 PSI. Connections are  $\frac{1}{4}$ " NPT thread and air lines should be sized to meet these requirements. The Actuator is designed for a maximum operating air pressure of 120 PSI. The actuator has two air flow control valves to maintain the opening and closing speed of the valve at greater than three seconds. The air flow control valves are preset at the factory – DO NOT ADJUST. It is essential that the air lines and air connections are LEAK-PROOF to maintain the preset valve opening and closing times consistent.

For valves equipped with the Offset Handle, grip the operating handle and squeeze the latch to operate the valve. This will disengage the latch from the throttling plate and allow movement of the handle to open or close the valve. When opening the valve, more torque is required to operate the valve due to seat sealing pressure on the disc. Apply steady, firm pressure to the handle until the valve begins to open. When flow begins, continue to open at a slow, steady pace until the desired flow is reached and then release the latch. This will engage the latch in the throttling plate, retaining the valve handle in that position. The same procedure should be followed when closing the valve.

Check the condition of the throttling latch for signs of wear on a regular basis. Replace when wear is noticed.

Valves equipped with electric actuator and controller may be throttled. Their fully open, full close cycle time is approximately 18 seconds.

Due to its current limiting design, 11 volts and 28 amps are required to activate green/red open/close lights. The truck engine should be running to assure this.

For valves equipped with the air bleeder valve or drain valve, close the bleeder valve or drain valve before applying pressure or attempting to draw suction/draft. Before disconnecting the hose line, open the air bleeder or drain valve to equalize pressure.

Do not use the valve or actuators as a “step”.

Operating pressure of the valve is 250 PSI.

**⚠ WARNING:** Do not connect the hose coupling to a butterfly valve mounted on a hydrant until the pumper laying out the hose has reached its destination and has been positioned. If the hose is connected while it is being “played out”, a coupling could catch on the rear of the pumper, creating a hard pull on the hose, which can damage the butterfly valve.

## MAINTENANCE INSTRUCTIONS

Butterfly valves should be actuated at a minimum of once a month to prevent the disc from seizing to the seat. In addition the rubber seat should be inspected periodically for dryness and a light coating of grease should be applied to the seat as required.



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