Installation Guidelines:

- Valves are listed/approved for indoor or outdoor installations.
- At least one rigid grooved coupling should be used when installing the grooved butterfly valve so the valve will not rotate on the pipe.
- For outdoor installations, weatherproof conduit and connectors must be used to assure the function of the internal switches. Wiring of the tamper switch must be in accordance with NFPA 72 and requirements of the local authorities.
- The disc of the wafer butterfly valve will extend beyond the valve body in the open position. Be certain that there will be no interference with other piping components during installation.
- Never force the valve closed by a wrench on the hand wheel or any other mechanical advantage as this could distort the valve's components or score the seating surface.

Installation Instructions:

1. Install the valve in the "closed" position to avoid damage to the disc.
2. **Grooved Butterfly Valve:** Refer to the installation instructions for grooved couplings for details of installing the valve in the piping system.
3. **Wafer Butterfly Valve:** Install valve between two (2) Class 125/150 flanges, raised or flat face. No flange gasket is required.
4. Connect the wiring of the tamper switch to the fire alarm system as required by the "Authority Having Jurisdiction" (AHJ). Refer to Wiring Diagram below for proper connection.

Tamper Switch Wiring Instructions:

The tamper switch operates by the gear quadrant connected to the valve stem. The switch will operate within two (2) full turns of the hand wheel from the fully open position. The valve is normally supplied with the switches monitoring the valve in the open position. The double circuit provides one switch for the alarm system and a second switch for an indicating light or audible alarm at the valve location.

Switch #1 (S1): For connection to the supervisory circuit of a UL Listed alarm control panel.
Normally Closed: 2 Yellow Wires
Normally Open: 2 Red Wires
Common: 2 White Wires

Switch #2 (S2): Auxiliary switch for connection to a local device.
Normally Closed: 1 Blue Wire
Normally Open: 1 Orange Wire
Common: 1 Black Wire

Ground Lead: 1 Green Wire