

**Badger®  
Series 800  
Set-Point Controller**

**Leak Control -  
Normally Closed Master Valves**

**Application  
Brief**

Automatic irrigation systems save thousands of man hours per day while efficiently watering the landscape. However, due to broken or missing sprinkler heads, risers, or pipeline breaks, they may be wasting huge quantities of water or causing severe soil erosion problems.

Leading irrigation designers have eliminated these problems with Badger Meter flow sensors and controls.

In a typical system, the Badger Meter impeller-type flow sensor monitors the flow in the main line or sub-main. The Badger Series 800 Local Area Relay Control (L.A.R.C.) connected to the sensor (up to 2000 feet away) is set to react at a greater than normal flow. If it senses a high flow rate, it opens a relay that interrupts the power to the solenoid of a normally closed master valve. The master valve shuts off the flow of water in the main or sub-main. The Series 800 prevents the master valve from opening until an operator resets the Series 800 and checks the system manually.

**Initial switch settings during setup:**

- Logic Switch OFF
- Latch Switch OFF
- Delay Switch OFF
- Delay Pot Full CCW
- Deadband Pot Full CCW
- Deadband Pot Full CCW

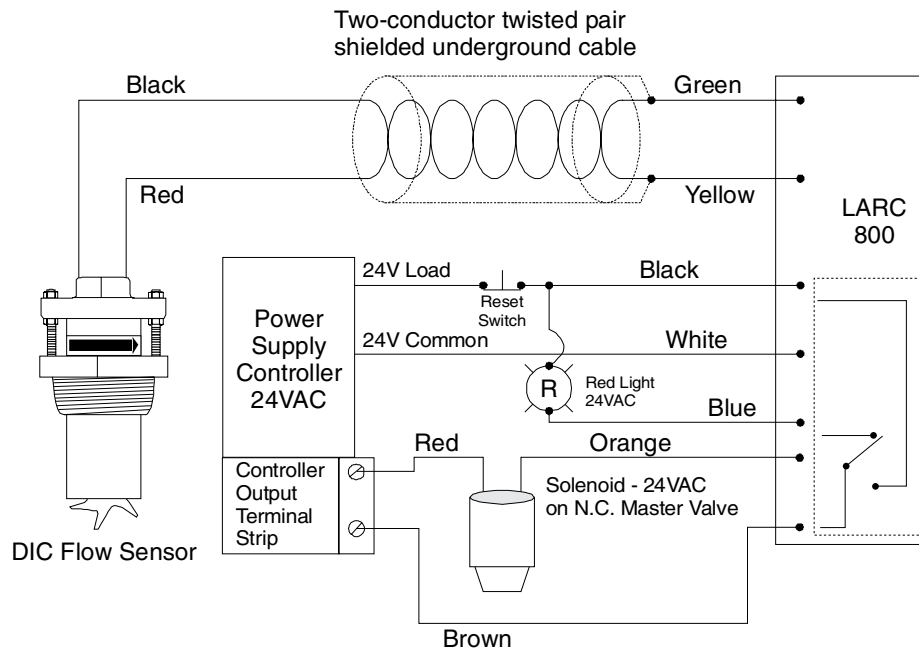
**Final Run time settings:**

- Logic Switch OFF
- Latch Switch OFF
- Delay Switch OFF
- Delay Pot – Adjusted to desired delay
- Deadband Pot Full CCW
- Deadband Pot – Adjusted to desired trip point

The Series 800 is usually mounted in the irrigation controller enclosure or pedestal. The schematic below is shown with an outside indicator light usually mounted on the side of the pedestal that alerts the irrigation operator to the problem.

The following diagram details the wiring of the components.

1. Flow Sensor - Badger Meter Series 200
2. Control - Badger Meter Series 800 L.A.R.C.
3. Reset Switch – N.C. Momentary Open
4. Master Valve - N.C. 24 V.A.C. Diaphragm Valve
5. Indicator Lamp – 24VAC



**DAB-032-01**

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