NOTE: This wall chart is a guide for placing the system in service and for performing water flow alarm tests. Always refer to the installation, maintenance, and testing manual for complete information.

**Placing the System in Service**

1. Open the system main-drain valve (4). Confirm that the system is drained.
2. Close the system main-drain valve (4).
3. Confirm that system drains are shut and the system is free of leaks.
4. If a Series 746 Dry Accelerator (14) is used, confirm that the isolation ball valve (29) to the accelerator is closed.
5. Open the piston charge line ball valve (8), and confirm that a steady flow of water is going through the Series 753-A Dry Actuator (23).
6. Close the piston charge line ball valve (8).
7. Charge the system with air by turning on the compressor or by opening the fast-fill ball valve on the air maintenance device (28). Fill the system to the approximate pressure for the typical water supply pressure in the area. If a Series 746 Dry Accelerator (14) is used, open the 4-turn vent ball valve (30) on the accelerator.
8. If air is leaking out of the restricted orifice/alarm line drain (19) on the alarm line, close the alarm line ball valve (17).
9. While the system is charging, lightly push down on the upper chamber seal of the Series 753-A Dry Actuator (23), and pull up on the auto vent knob (13) simultaneously.
10. When system air pressure is established, close the fast-fill ball valve on the air maintenance device (28).
11. Pull up on the auto drain knobs (12) until they are set in the "UP" position. Verify that there is pressure on the piston gauge (11).
12. Confirm that the piston charge line pressure (11) is equal to the water supply pressure (5). The piston is now actuated, and the clapper will now be set.
13. Open the alarm line ball valve (17).
14. Open the water supply’s main control valve (2) slowly.
15. Confirm that there is no leakage from the restricted orifice/alarm line drain (19) located in the alarm line piping. If water is flowing from the restricted orifice/alarm line drain (19), close the water supply’s main control valve (2), and start over at step 1.
16. Open the water supply’s main control valve (2) fully.
17. Record the system air pressure (7), water supply pressure (5), and piston charge line pressure (11).
18. Ensure all valves are in their normal operating positions.

**Water Flow Alarm Test**

1. Close the alarm line ball valve (17).
2. Open the alarm test line ball valve (18). Confirm that mechanical and electrical alarms are activated and that remote monitoring stations, if provided, received an alarm signal.
3. Close the alarm test line ball valve (18) after proper operation of all alarms is verified.
4. Push in the plunger on the restricted orifice/alarm line drain (19).
5. Verify that all alarms stopped sounding, that the alarm line drained properly, and that remote station alarms reset properly.
6. Confirm that the alarm test line ball valve (18) is closed.
7. Open the alarm line ball valve (17).
8. Verify that the intermediate chamber of the valve is dry. No water should flow from the restricted orifice/alarm line drain (19).