

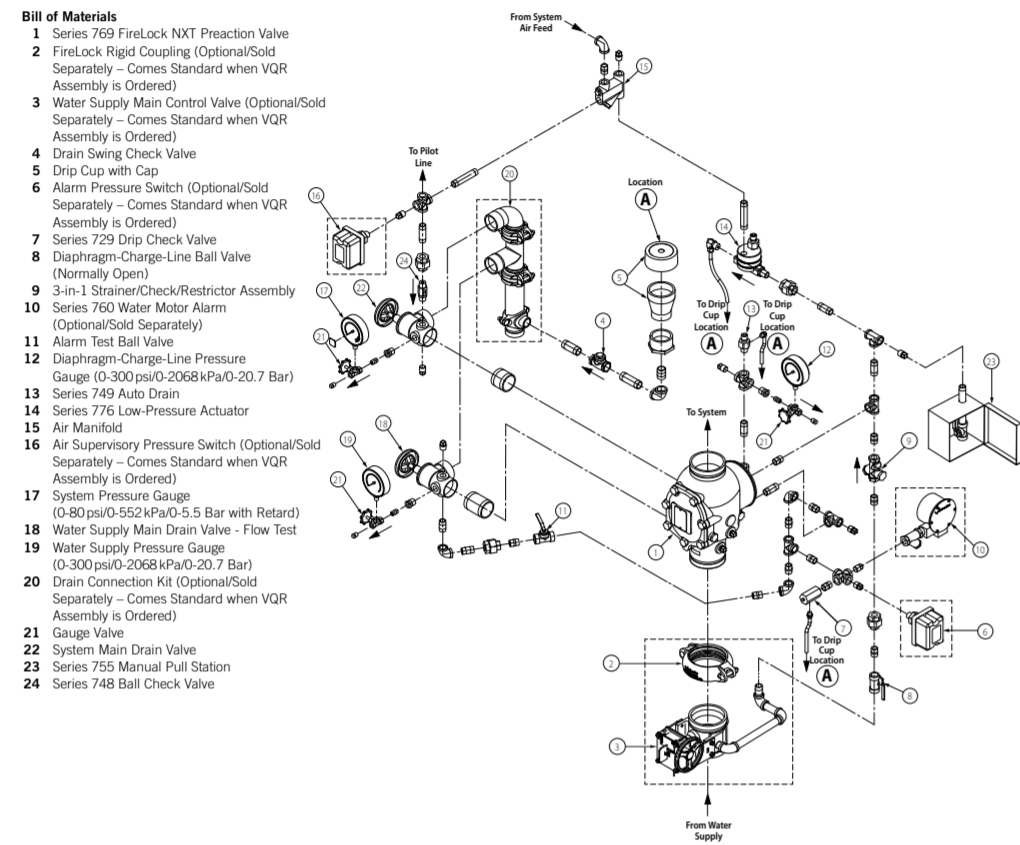
SERIES 769 FIRELOCK NXT™ PREACTION VALVE



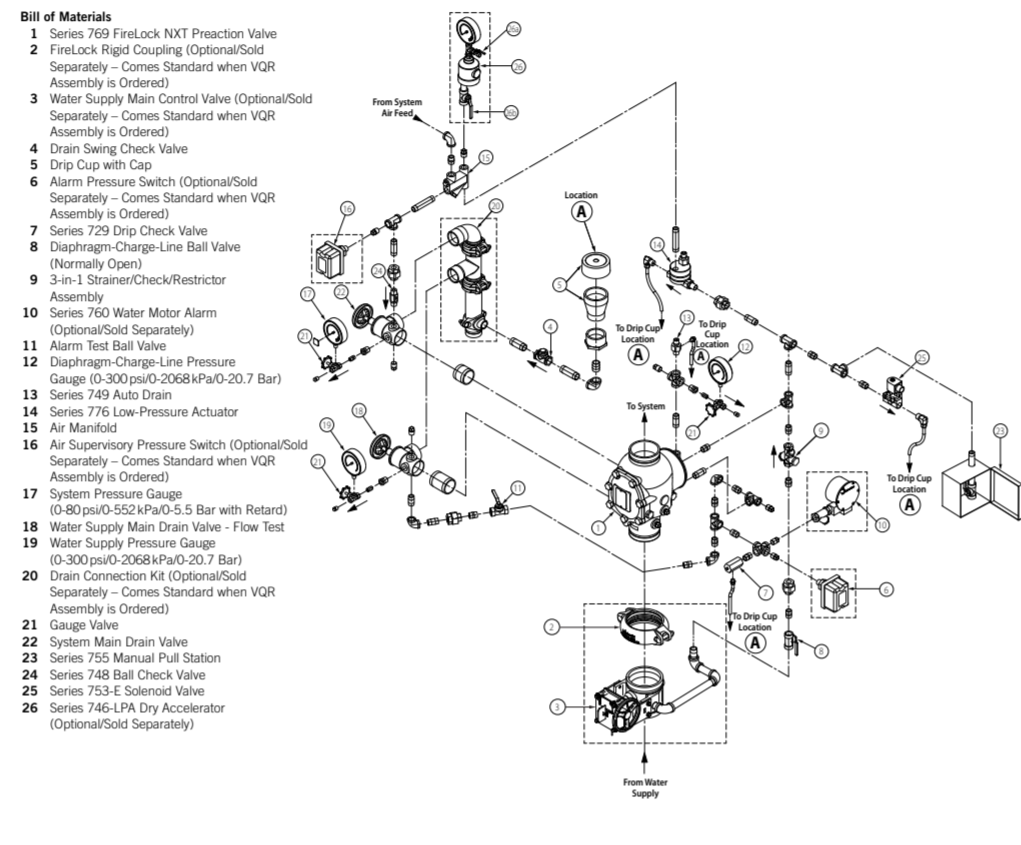
NOTE: THIS WALL CHART IS A GUIDE FOR PLACING THE SYSTEM IN SERVICE AND FOR PERFORMING WATER FLOW ALARM TESTS.

ALWAYS REFER TO THE INSTALLATION, MAINTENANCE, AND TESTING MANUAL FOR COMPLETE INFORMATION.

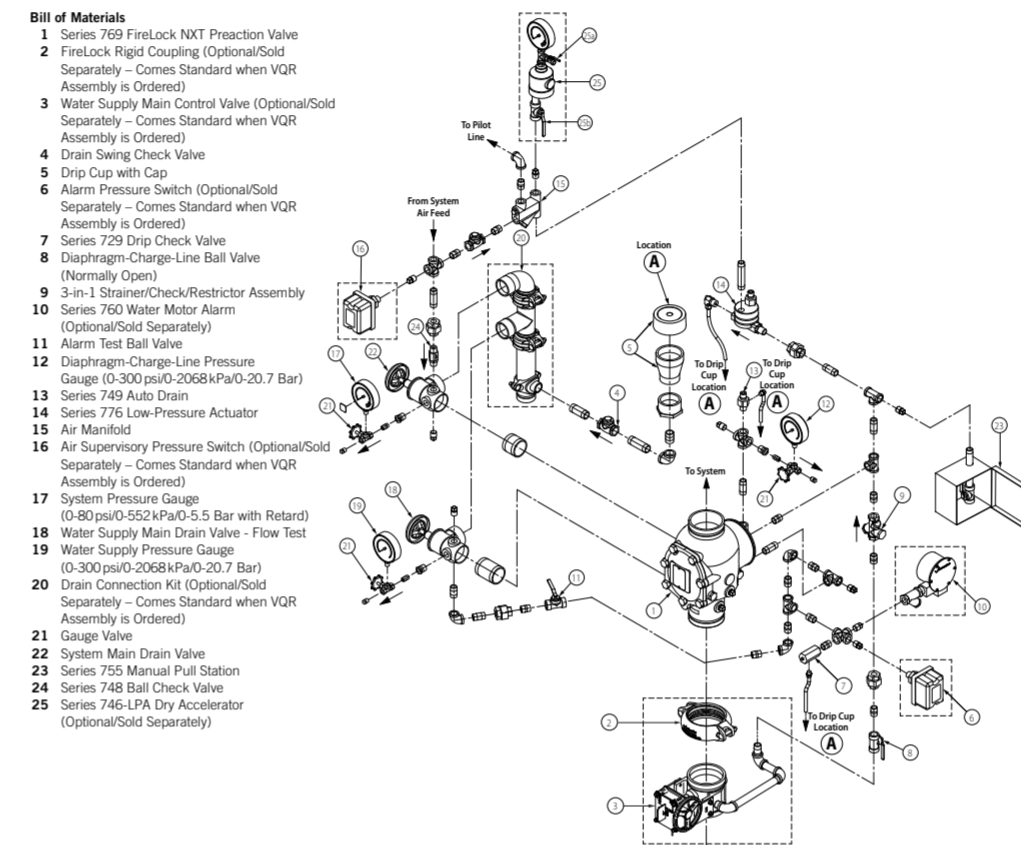
NON-INTERLOCKED, PNEUMATIC RELEASE



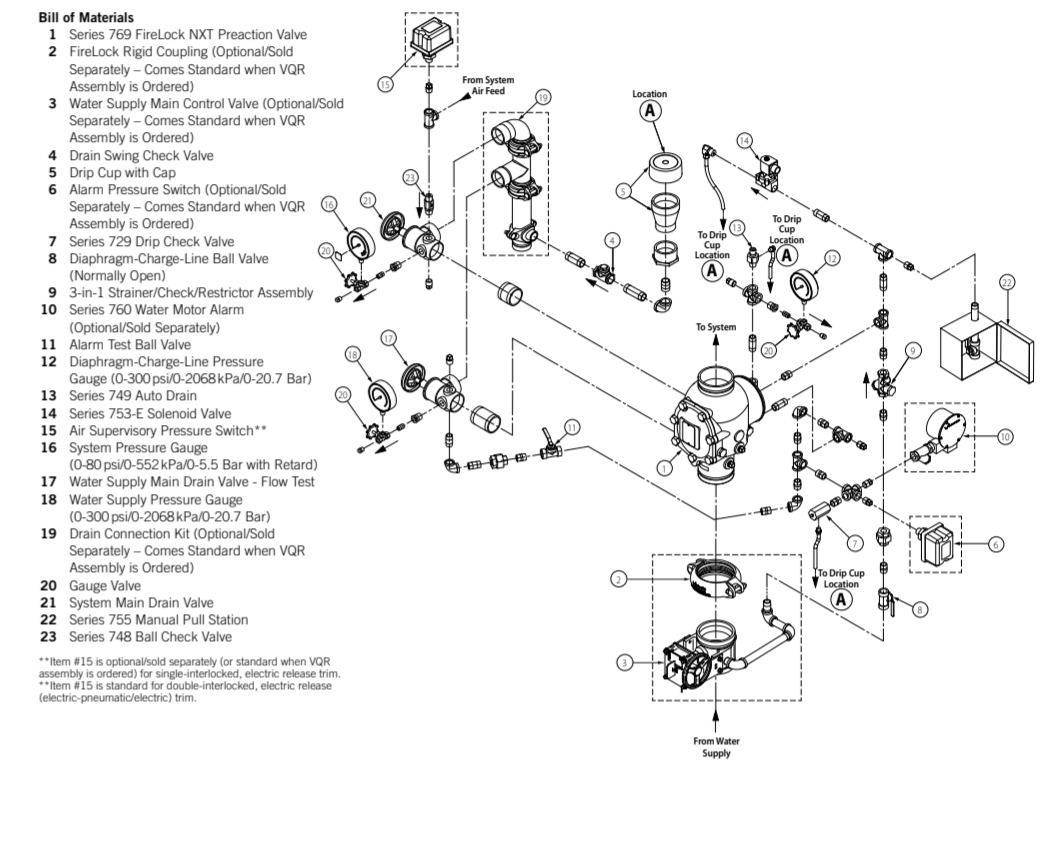
NON-INTERLOCKED, PNEUMATIC/ELECTRIC RELEASE



SINGLE-INTERLOCKED, PNEUMATIC RELEASE TRIM



SINGLE-INTERLOCKED, ELECTRIC RELEASE AND DOUBLE-INTERLOCKED ELECTRIC (ELECTRIC-PNEUMATIC/ELECTRIC) RELEASE



PLACING THE SYSTEM IN SERVICE

- Open the system main drain valve (Items 22, 22, 22, 21 left to right). Confirm that the system is drained.
- Close the system main drain valve (Items 22, 22, 22, 21 left to right).
- Confirm that all system drains are shut and that the system is free of leaks.
 - Confirm that the system has been depressurized. The gauges should indicate zero pressure.
- FOR SYSTEMS INSTALLED WITH A SERIES 746-LPA DRY ACCELERATOR (Items 26, 25 in center graphics):** Confirm that the isolation ball valve (Items 26b, 25b in center graphics) to the accelerator is closed.
 - FOR SYSTEMS INSTALLED WITH A SERIES 746-LPA DRY ACCELERATOR (Items 26, 25 in center graphics):** Open the ¼-turn vent ball valve (Items 26a, 25a in center graphics).
- Open the diaphragm-charge-line ball valve (Item 8).
- Confirm that water is flowing steadily from the Auto Drain (Item 13). Pull up on the Auto Drain Sleeve (Item 13).
 - FOR SYSTEMS INSTALLED WITH A SERIES 776 LOW-PRESSURE ACTUATOR (Item 14 left to right):** Confirm that water is flowing through the Series 776 Low-Pressure Actuator after opening the diaphragm-charge-line ball valve (Item 8) and pulling up on the Auto Drain Sleeve (Item 13).
 - FOR SYSTEMS INSTALLED WITH A SERIES 753-E SOLENOID VALVE (Items 25, 14 in second and fourth graphics):** Make sure no water flows through the solenoid after opening the diaphragm-charge-line ball valve (Item 8). DO NOT pull up on the Auto Drain Sleeve (Item 13).
- Close the diaphragm-charge-line ball valve (Item 8).
- Confirm that the alarm test ball valve is closed.
- Charge the system with air by turning on the compressor or by opening the fast-fill ball valve on the optional air maintenance trim assembly (AMTA).
 - The minimum air pressure for a Series 769 FireLock NXT Preaction Valve installed with or without a Series 746-LPA Dry Accelerator shall be 13 psi/90 kPa/0.9 Bar. The maximum air pressure shall be 18 psi/124 kPa/1.2 Bar.
 - Confirm that the system is charging by observing the air pressure gauge. If the gauge is not showing an increase in air pressure, there is a leak or an opening in the line. Repair any leaks or openings and restart the setup procedures.

- FOR SYSTEMS INSTALLED WITH A SERIES 776 LOW-PRESSURE ACTUATOR (Item 14 left to right):** Confirm that no water is being exhausted from the Auto Vent of the Series 776 Low-Pressure Actuator. If water is being exhausted from the Auto Vent, continue to run air through the system in order to remove moisture from the upper chamber of the Series 776 Low-Pressure Actuator. If a Series 746-LPA Dry Accelerator is installed, make sure the accelerator is not flooded.
 - FOR SYSTEMS INSTALLED WITH A SERIES 776 LOW-PRESSURE ACTUATOR (Item 14 left to right):** When the system reaches approximately 10 psi/69 kPa/0.7 Bar, and no additional moisture is being released from the Auto Vent, pull up on the Auto Vent Sleeve of the Series 776 Low-Pressure Actuator. **NOTE:** The Auto Vent Screw should seal and remain in the set ("UP") position.
- FOR SYSTEMS INSTALLED WITH A SERIES 753-E SOLENOID VALVE (Items 25, 14 in second and fourth graphics):** Confirm that the solenoid is closed.
- When system air pressure is established, close the fast-fill ball valve on the optional AMTA.
- Open the slow-fill ball valve on the optional AMTA. **NOTE:** Failure to leave the slow-fill ball valve open may allow system pressure to drop, resulting in valve operation in the event of a system leak.
- Open the diaphragm-charge-line ball valve (Item 8). Allow water to flow through the Auto Drain (Item 13) tube.
- Open the manual pull station (Items 23, 23, 22 left to right).
- Close the manual pull station (Items 23, 23, 22 left to right).
- Pull up on the Auto Drain Sleeve (Item 13) until the screw is in the set ("UP") position. Verify that there is pressure on the gauge to the diaphragm charge line (Item 12).
- When the diaphragm charge line is pressurized, temporarily close the diaphragm-charge-line ball valve (Item 8). Confirm that the diaphragm charge line is maintaining pressure by observing the diaphragm-charge-line pressure gauge (Item 12).
 - If pressure in the diaphragm charge line drops, the diaphragm must be replaced and/or any leaks in the diaphragm charge line must be corrected.
 - If pressure in the diaphragm charge line does not drop, re-open the diaphragm-charge-line ball valve (Item 8), and proceed to the following step.
- FOR SYSTEMS INSTALLED WITH A SERIES 746-LPA DRY ACCELERATOR (Items 26, 25 in center graphics):** Close the ¼-turn vent ball valve (Items 26a, 25a in center graphics) on the accelerator.
- FOR SYSTEMS INSTALLED WITH A SERIES 746-LPA DRY ACCELERATOR (Items 26, 25 in center graphics):** Open the isolation ball valve (Items 26b, 25b in center graphics). This will set the accelerator.
- Observe the system air pressure over a 24-hour period to confirm system integrity. If there is degradation in system air pressure, find and correct all leaks.
- Open the water supply main drain valve (Items 18, 18, 17 left to right).
- Open the water supply main control valve (Item 3) slowly until water flows steadily from the open water supply main drain valve (Items 18, 18, 17 left to right).
- Close the water supply main drain valve (Items 18, 18, 17 left to right) when a steady flow of water occurs.
- Confirm that there is no leakage from the intermediate valve chamber. The drip check (Item 7) in the alarm line should not be leaking water or air.
- If water is flowing from the drip check (Item 7), close the water supply main control valve (Item 3), and start over at step 1.
- Open the water supply main control valve (Item 3) fully.
- Record the system air pressure and the water supply pressure.
- Confirm that all valves are in their normal operating positions (refer to table below).

NORMAL OPERATING POSITIONS FOR VALVES

Valve	Normal Operating Position
Diaphragm-Charge-Line Ball Valve	Open
Alarm Test Ball Valve	Closed
Water Supply Main Control Valve	Open
Water Supply Main Drain Valve	Closed
System Main Drain Valve	Closed
Slow-Fill Ball Valve of the Victaulic AMTA (If Applicable)	Open
Fast-Fill Ball Valve of the Victaulic AMTA (If Applicable)	Closed
Isolation Ball Valve for Series 746-LPA Dry Accelerator (If applicable)	Open
¼-Turn Vent Ball Valve for Series 746-LPA Dry Accelerator (If applicable)	Closed

NOTE: The minimum air pressure for a Series 769 FireLock NXT Preaction Valve installed with or without a Series 746-LPA Dry Accelerator shall be 13 psi/90 kPa/0.9 Bar. The maximum air pressure shall be 18 psi/124 kPa/1.2 Bar.

WATER FLOW ALARM TEST

Perform the water flow alarm test on a frequency required by the local authority having jurisdiction. Verify these requirements by contacting the authority having jurisdiction in the affected area.

- Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the water flow alarm test will be performed.
- Open the water supply main drain valve (Items 18, 18, 17 left to right) fully to flush the water supply of any contaminants.
- Close the water supply main drain valve (Items 18, 18, 17 left to right).
- Open the alarm test ball valve (Item 11). Confirm that mechanical and electrical alarms are activated and that remote monitoring stations, if provided, receive an alarm signal.
- Close the alarm test ball valve (Item 11) after verifying proper operation of all alarms.
- Push in the plunger of the drip check (Item 7) to verify that there is no pressure in the alarm line.
- Verify that all alarms stopped sounding, that the alarm line drained properly, and that remote station alarms reset properly.
- Confirm that there is no leakage from the intermediate valve chamber. The drip check (Item 7) in the alarm line should not be leaking water or air.
- Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the valve is back in service.
- Provide test results to the authority having jurisdiction, if required.

