

SERIES 769N FIRELOCK NXT™ PREACTION ACTUATED VALVE WITH ELECTRIC AUTOCONVERT DRY RELEASE "FG" TRIM

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

AN EXPERIENCED, TRAINED INSTALLER SHALL READ AND UNDERSTAND THE FULL CONTENTS OF THE INSTALLATION, MAINTENANCE, AND TESTING MANUAL AND ALL WARNING MESSAGES BEFORE ATTEMPTING TO PLACE THE SYSTEM INTO SERVICE.

INITIAL SYSTEM SETUP

NOTICE
Before proceeding with initial system setup, verify that the following steps have been completed:
• Verify that the system air feed piping is connected to the location indicated on the trim drawing.
• Verify that an approved control panel is installed for proper system operation.

THE FOLLOWING INSTRUCTIONS APPLY TO SOLENOIDS THAT ARE CLOSED (DE-ENERGIZED). IF THE SOLENOIDS ARE OPEN (ENERGIZED), RESET THE CONTROL PANEL BEFORE ATTEMPTING TO PLACE THE SYSTEM IN SERVICE.

Step 1:

Confirm that all system drains are shut and that the system is free of leaks.

Step 2:

Confirm that the system has been depressurized. The gauges should indicate zero pressure.

Step 2a: If a Series 746-LPA Dry Accelerator (Item 8) is installed, confirm that the isolation ball valve (Item 8b) is closed.

Step 2b: If a Series 746-LPA Dry Accelerator is installed (Item 8), open the ¼-turn vent ball valve (Item 8a).

Step 3:

Confirm that the alarm test ball valve (Item 18b) of the priming manifold assembly (Item 18) is closed.

Step 4:

Charge the system with air by turning on the compressor or by opening the fast-fill ball valve (Item 23b) on the Victaulic Air Maintenance Trim Assembly (AMTA – Item 23). Charge the system to 13 psi/90 kPa/0.9 Bar minimum.

Step 5:

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 (Item 13a) of the Series 776 Low-Pressure Actuator (Item 13). **NOTE:** The Auto Vent Screw should seal and remain in the set ("UP") position.

Step 6:

When system air pressure is established, close the fast-fill ball valve (Item 23b) on the AMTA (Item 23).

Step 7:

Open the slow-fill ball valve (Item 23a) on the AMTA (Item 23). **NOTE:** Failure to leave the slow-fill ball valve (Item 23a) open may allow system pressure to drop, resulting in valve operation in the event of a system leak.

Step 8:

Open the charge line ball valve (Item 18a) of the priming manifold assembly (Item 18). Allow water to flow through the auto drain tube.

Step 9:

Open the manual pull station (Item 16) valve to bleed off any air that is present, then close the manual pull station valve. Verify that the charge line pressure (Item 14) is equal to the supply pressure and that the auto drain is set by pulling up on the auto drain sleeve (Item 18c) of the priming manifold assembly (Item 18). Verify that no water is draining from the Series 776 Low-Pressure Actuator (Item 13) or solenoid actuators (Item 15).

Step 9a: If a Series 746-LPA Dry Accelerator (Item 8) is installed, close the ¼-turn vent ball valve (Item 8a).

Step 9b: If a Series 746-LPA Dry Accelerator (Item 8) is installed, open the isolation ball valve (Item 8b). This will set the accelerator.

Step 10:

Open the water supply main drain valve (Item 5).

Step 11:

Open the water supply main control valve (Item 3) slowly until water flows steadily from the open water supply main drain valve (Item 5).

Step 12:

Close the water supply main drain valve (Item 5) when a steady flow of water occurs.

Step 13:

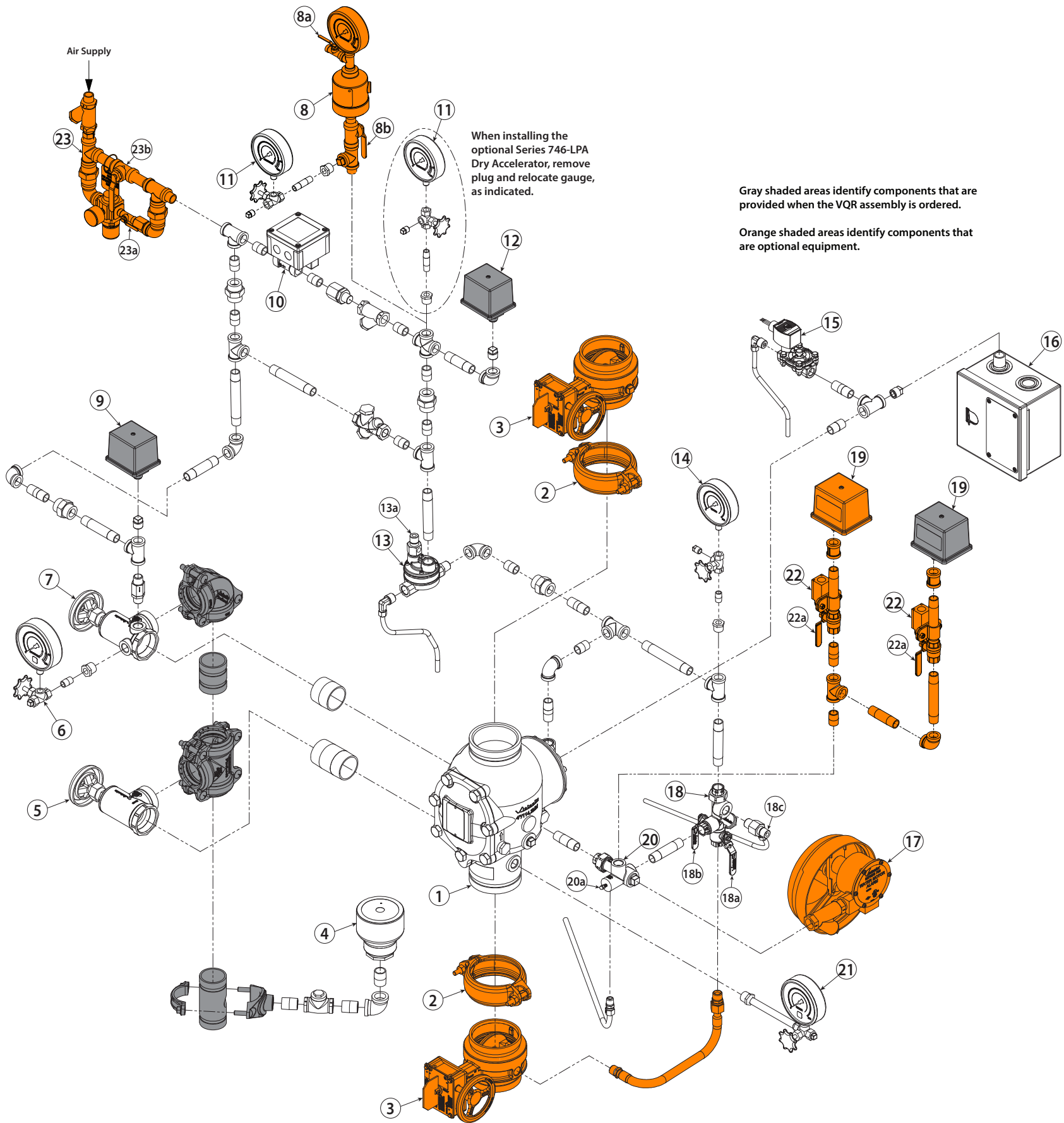
Open the water supply main control valve (Item 3) fully.

Step 14:

Confirm that all valves are in their normal operating positions (refer to the table below).

NORMAL OPERATING POSITIONS FOR VALVES

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



Item	Description
1	Series 769N FireLock NXT Actuated Valve
2	FireLock Rigid Coupling
3	Water Supply Main Control Valve
4	Drip Cup
5	Water Supply Main Drain Valve – Flow Test
6	System Pressure Gauge/Gauge Valve Assembly
7	System Main Drain Valve
8	Series 746-LPA Dry Accelerator
8a	Series 746-LPA Dry Accelerator ¼-Turn Vent Ball Valve
8b	Series 746-LPA Dry Accelerator Isolation Ball Valve
9	Air Supervisory Pressure Switch

Item	Description
10	Air Latching Solenoid Module
11	AutoConvert Air Pressure Gauge/Gauge Valve Assembly
12	AutoConvert Pre-Set Air Pressure Switch
13	Series 776 Low-Pressure Actuator
13a	Auto Vent Sleeve of Series 776 Low-Pressure Actuator
14	Charge Line Pressure Gauge/Gauge Valve Assembly
15	24 VDC Normally-Closed Solenoid Valve
16	Series 755 Manual Pull Station
17	Series 760 Water Motor Alarm Assembly
18	Priming Manifold Assembly
18a	Charge Line Ball Valve

Item	Description
18b	Alarm Test Ball Valve
18c	Auto Drain Sleeve
19	Alarm Pressure Switch
20	Alarm Manifold Assembly
20a	Ball Drip Plunger
21	Water Supply Pressure Gauge/Gauge Valve Assembly
22	Alarm Line Monitoring Limit Switch Assembly
22a	Alarm Line Monitoring Ball Valve
23	Victaulic Air Maintenance Trim Assembly (AMTA)
23a	Slow-Fill Ball Valve of the Victaulic AMTA
23b	Fast-Fill Ball Valve of the Victaulic AMTA

REQUIRED WATER FLOW ALARM TEST

Refer to NFPA 25, FM Datasheets, or any applicable local requirements to perform water flow alarm tests. The authority having jurisdiction in the area may require these inspections on a more frequent basis. Verify these requirements by contacting the authority having jurisdiction in the affected area.

1. Notify the authority having jurisdiction, remote station alarm monitors, and those in the affected area that the water flow alarm test will be performed.

2. Open the water supply main drain valve (Item 5) fully to flush the water supply of any contaminants.

3. Close the water supply main drain valve (Item 5).

4. Open the alarm test ball valve (Item 18b) of the priming manifold assembly (Item 18). Confirm that mechanical and electrical alarms are activated and that remote monitoring stations, if provided, receive an alarm signal.

5. Close the alarm test ball valve (Item 18b) of the priming manifold assembly (Item 18) after verifying proper operation of all alarms.

6. Push in the ball drip plunger (Item 20a) on the alarm manifold assembly (Item 20) to verify that there is no pressure in the alarm line.

7. Verify that all alarms stopped sounding, that the alarm line drained properly, and that remote station alarms reset properly.

8. Confirm that the ball drip on the alarm manifold assembly (Item 20) is not leaking water or air.

9. Provide test results to the authority having jurisdiction, if required.

