



PURGE_nVENT™

Models

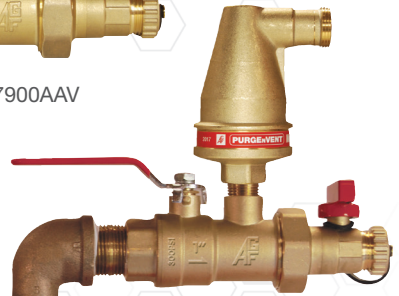
7900AAV • 7930ECA • 7950ILV



Model 7900AAV



Model 7930ECA



Model 7950ILV



Owner's Manual

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PURGENVENT™

Models **7900AAV • 7930ECA • 7950ILV** **Air Venting Valves**

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INSTALLATION LOCATIONS

M7900AAV:

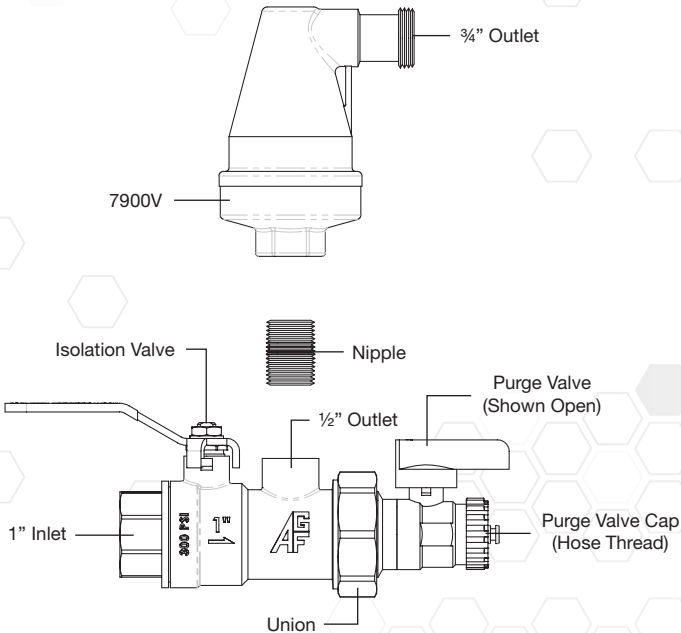
- Near high points in the system per NFPA 13. Examples are at the top of a vertical riser, elevated branch lines, and under roof peaks.
- At the end of branch lines.
- Locations which have previously experienced internal pipe corrosion due to pockets of trapped air.

M7930ECA:

- At the end of branch lines.

M7950ILV:

- Near the floor control assembly.



Model 7900AAV

Minimum PSIG: 2.9 • Maximum PSIG: 175



INSTALLATION INSTRUCTIONS

To help prevent corrosion NFPA 13 standard requires a venting valve be installed on all wet fire sprinkler systems that utilize metallic pipe.

Optional Installation Steps:

- The purge valve may be repositioned by loosening (not removing) the union and rotating the valve handle to its desired position. After the desired position is confirmed tighten the union.
- A moisture collection assembly (see page 7) or drain line may be connected to the ¾" outlet of the 7900V air vent.

M7900AAV:

NOTE: For the 7900V to vent properly it must be installed in a plumb, vertical position. Before installing confirm that the installation area has sufficient space.

1. Remove plastic shipping plug from the ½" outlet.
2. Apply a proper sealant to the system's pipe thread where the M7900AAV will be mounted.
3. Install the valve using a wrench on the valve's inlet flats. Confirm that the ½" outlet port is oriented in the vertical position.
4. Apply a proper sealant to both halves of the nipple provided. Then, install the nipple into the ½" outlet port of the valve.
5. Thread the inlet of the 7900V air vent onto the nipple. Tighten using a 1¼" wrench on the air vent's flats, and position as desired.

M7930ECA:

NOTE: For the 7900V to vent properly it must be installed in a plumb, vertical position. Before installing confirm that the installation area has sufficient space. The Model 7930ECA (End Cap Assembly) is shipped fully assembled and ready to be installed onto the end of a properly prepared pipe using a standard, appropriately sized grooved coupling.

1. Attach the M7930ECA to a prepared pipe end with the 7900V in a plumb, vertical position.
2. Install coupling. Follow manufacturer's installation instructions regarding tightening and torque requirements.

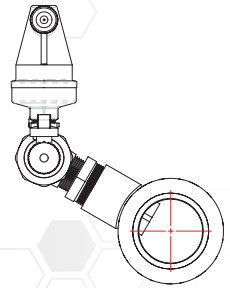
M7950ILV:

NOTE: For the 7900V to vent properly it must be installed in a plumb, vertical position. Before installing confirm that the installation area has sufficient space. For additional space the M7950ILV Separation Chamber can be rotated 45° (see alternate installation instructions below).

1. Cut out the required length of pipe from the section of the system where the M7950ILV is going to be installed.
2. Verify the flow direction of the M7900ILV by referring to the product label on the side of the Separation Chamber.
3. Install the M7950ILV into the system using two standard, appropriately sized couplings. Follow the coupling manufacturer's installation instructions regarding tightening and torque requirements.
4. Apply a proper sealant to both halves of the nipple provided. Then, install the nipple into the 1/2" outlet port of the M7900AAV valve.
5. Thread the inlet of the 7900V air vent onto the nipple. Tighten using a 1 1/16" wrench on the air vent's flats, and position as desired.

M7950ILV Alternate Installation:

1. Cut out the required length of pipe from the section of the system where the M7950ILV is going to be installed.
2. Verify the flow direction of the M7900ILV by referring to the product label on the side of the Separation Chamber.
3. Install the M7950ILV into the system vertically using two standard, appropriately sized couplings and turn the Separation Chamber 45°. Follow the coupling manufacturer's installation instructions regarding tightening and torque requirements.
4. Install the M7900AAV using a wrench on the valve's inlet flats. Confirm that the 1/2" outlet port is oriented in the vertical position.
5. Apply a proper sealant to both halves of the nipple provided. Then, install the nipple into the 1/2" outlet port of the valve.
6. Thread the inlet of the 7900V air vent onto the nipple. Tighten using a 1 1/16" wrench on the air vent's flats, and position as desired.



Alternate Installation

FILLING THE SYSTEM

NOTE: The Model 7900AAV includes both an automatic air vent and a purge valve. Both can be used to vent air from the system when filling the system.

Using the 7900V Air Vent:

1. Turn the M7900AAV isolation valve handle to the “VENT” position.
2. Open the system control valve to begin filling the system with water.
3. Keep the M7900AAV isolation valve in the “VENT” position while the system is in operation to allow residual and introduced air to automatically escape through the air vent.

Using the Purge Valve:

NOTE: Using the purge valve allows air to escape the system faster allowing it to be filled in a more timely manner.

1. Make sure the M7900AAV isolation valve and purge valve are both in the closed position.
2. Remove the cap from the purge valve and connect a temporary drain line (garden hose) to its outlet port.
3. Open the purge valve and turn the isolation valve to the “VENT” position.
4. Open the system control valve to begin filling the system with water.
5. Monitor the temporary drain line and close the purge valve when it is discharging a steady stream of water.
6. Disconnect the temporary drain line and tighten the purge valve cap.
7. Keep the M7900AAV isolation valve in the “VENT” position while the system is in operation to allow residual and introduced air to automatically escape through the air vent.

CLEANING THE VENT SCREEN

If the internal vent screen becomes clogged with debris it can be cleaned using on of the following procedures.

Quick Clean:

1. Close the M7900AAV isolation valve.
2. Remove the purge valve cap and connect a temporary drain line (garden hose) to its outlet port.
3. Open the purge Valve.

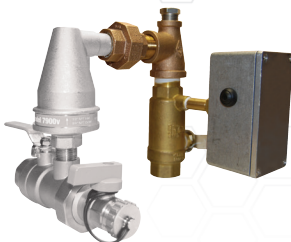
4. Flush the screen by quickly and repeatedly opening and closing the isolation valve on the M7900AAV.
5. Close the isolation on the Model 7900AAV and allow any residual water to drain out. Then, close the purge valve, disconnect the temporary drain line, and tighten the purge valve cap.
6. Slowly turn the isolation valve to the “VENT” position.

Full Clean:

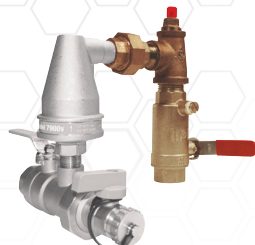
1. Close the M7900AAV isolation valve and place a bucket under it (if needed) to collect any residual that may come out during the following steps.
2. Using a wrench, loosen the purge valve union connection.
3. Remove the purge valve from the isolation valve and inspect the gasket for any damage. Place purge vent and gasket aside.
4. Remove the vent screen from the isolation valve and clean as needed.
5. Place the vent screen back into the isolation valve’s body. Making sure the screen is centered and the gasket is sitting properly in the union, position the purge valve as desired and reinstall. **DO NOT APPLY GREASE TO THE GASKET.**
6. Make sure the purge valve is closed.
7. Slowly turn the isolation valve to the “VENT” position. Check for leaks and tighten union if necessary.

MOISTURE COLLECTORS

Moisture collectors trap the mist that may be released from the PURGenVENT while venting air. They are available with either, an audible (7920AI) or visual (7925VI) alert. When the assembly senses water the audible collector sounds an alarm and the visual collector raises an indicator to notify personnel that the collection assembly needs to be drained. The 7920AI can be wired to the fire control panel or BMS for remote notification.



7920AI



7925VI



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