



Metraflex MVC Automatic Air Release Valve - MetraVent

OPERATION, INSTALLATION AND MAINTENANCE INSTRUCTIONS

General: Metraflex Automatic Air Release Valves are fully automatic, and don't require any regular maintenance. They are designed to release air which accumulates in a pipeline during operation. Please consult the factory submittals for specific performance specifications.

Application:

The valve, as shipped, is a normally open valve. As the system is being filled, air is vented through the small orifice. When the fluid enters the valve, the float raises and shuts off the orifice, preventing any leakage. As air accumulates and enters the valve, displacing fluid, the float drops, allowing the venting orifice to open. This cycle is repeated as often as necessary during the pumping cycle.

For quicker air release when filling a system remove the pipe plug from the cap of the MetraVent.

Installation:

Air Release Valves must be installed in a vertical position at high points on a piping system. The valve's inlet must face downward. A shut-off valve should be installed below each valve in the event servicing is required. A drain line is recommended, as the valve may "spit" a small amount of fluid during venting. To vent air quickly during initial start-up, remove the ½-inch pipe plug in the cap of the MetraVent. CAUTION: If PTFE tape is used to form the seal on the inlet piping, keep the excess tape from entering the valve. The excess tape could interfere with proper venting or sealing of the valve.

Testing:

MetraVent may be one-time pressure tested to 1-1/2 times the product's maximum operating pressure. Do not exceed maximum pressure or temperature during operation.

Precautions:

1. Connectors should not be installed in inaccessible areas where inspection is impossible.
2. Make sure proper drainage is available in the event of leakage when operating personnel are not available.
3. If welding near a braided connector, cover the unit with a weld blanket to keep weld splatter from damaging the braid cover.
4. Don't use excessive flux when installing the connector.
5. The connector should be flushed after installation to remove residual flux.

Maintenance:

No regular maintenance is necessary; however, periodic inspection for leakage and function can be performed. Close the inlet service valve and slowly remove the ½ -inch pipe plug. The water level within the valve should be within 1" of the top of the opened drain plug. If not, the valve may not be functioning properly and the valve should be removed and inspected for wear and/or possible damage from foreign matter.

