Introduction:

Flomatic Air Release Valves have been designed to be reliable and low maintenance, due to the use of stainless steel internal components and fasteners. Following the information in this manual will insure that the valve will operate correctly throughout its lifespan.

Air Release valves are typically mounted at the high points of a piping system to relieve pockets of air as they collect in a system. These valve can also be used to release air in tanks and pump casings.

> ⚠️ **CAUTION:**
> ***These valves are designed for use on clean water systems. They are not intended for fuel service or for fluids containing suspended solids. For waste water or solids refer to Sewair Valves.***
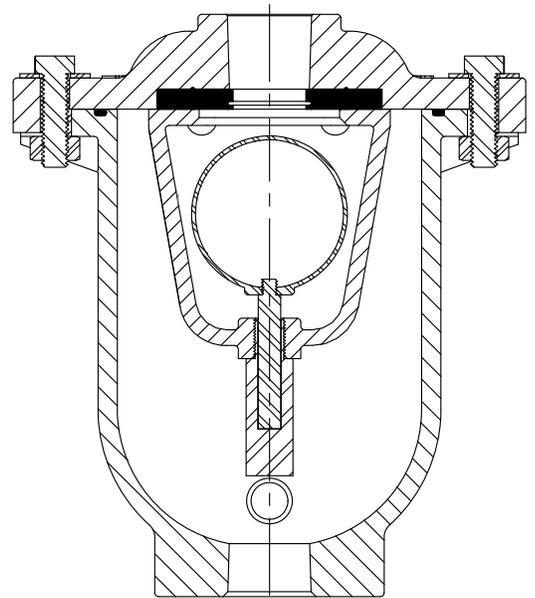
Flomatic Maxiair® Valves are float-operated, resilient-seated valves designed to operate in clean water systems. The model number, serial number, and size are listed on the name plate of each individual valve for reference.

Note: Softer Rubber Seats are available upon request for low pressure applications.

Upon receipt inspect valves for damage that may have occurred during shipment. Valves should remain boxed and in a clean and dry environment until installed to prevent rust and damage. For storage longer than six months, valve must be stored indoors, boxed, out of direct sunlight.

Operation:

Flomatic Maxiair® valves are designed to release air from the system while filling and allow air to enter the system during shut down or if there is a break in the line. When water enters the valve the float rises and closes the orifice. When the fluid level drops the float drops away from the orifice and allows air to enter the system to prevent possible damage.

> ⚠️ **CAUTION**
> Install valve with "Inlet" port down or leakage will occur

Installation:

Installation must be performed by qualified, licensed personnel only.
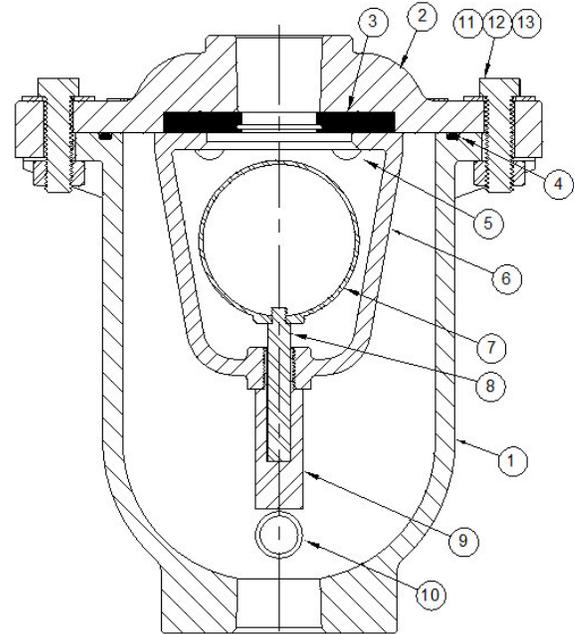***Remove all plastic protection plugs that are covering inlet and outlet threads.***
The Flomatic Maxiair® should be installed at the high points in the system in a vertical position above the water main. If they are not installed directly over the water main, the inlet piping to the valve should always be angled upwards towards the valve with the valve being vertical. To facilitate servicing and repairs it is strongly recommended that an isolation valve be installed on the inlet side of the valve. Proper supports for the valve and piping are required as needed.

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FLOMATIC® VALVES

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These valves should never be buried. In warm climate areas installing them above grade is acceptable as long as precautions are taken to keep people away from them and protect them from being tampered with (these precautions should be determined by the project engineer). Freeze protection is a necessity in colder areas. Manholes should be adequately sized to allow safe access to the valve by service personnel.

Valve Construction:

The Flomatic Maxiair® valves have a Ductile Iron cover and body. All internal components are stainless steel, with the exception of the Seat (#3) and O-Ring (#4).

Item Number	Description
1	Body
2	Cover
3	Seat
4	O-Ring
5	Cap Screw
6	Guide
7	Float
8	Stem
9	Bushing
10	Pipe Plug
11	Bolt
12	Washer
13	Nut

Maintenance:

The Maxiair® requires no scheduled maintenance, but should be inspected periodically for leakage in the orifice area on top. If the valve is found to be leaking maintenance is required.

Disassembly / Reassembly:

The Maxiair® can be disassembled without removing it from the line. No special tools are required and all work should be performed by qualified, licensed personnel.

1. Close isolation valve on the inlet of the valve or shut system down if there isn't a valve. Be sure system pressure is relieved.
2. Remove bolts (#11), washers (#12) and nuts (#13) and lift cover (#2) off.
3. Examine float (#7) for damage. Replace is there is any wear or damage.
4. Examine seat area (underside of cover) for wear or damage to the rubber seat (#3).
5. If the rubber seat is damaged, you will need to remove the guide (#6) by first removing the cap screws (#5). Remove and replace the rubber seat and then reassemble.
6. Clean the flange surfaces, inspect the O-ring (#4) for damage, apply silicone grease to the O-ring and reinstall cover assembly.
7. Put valve back in service and check for leaks.

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Trouble Shooting Guide	
Problem:	Possible Solutions:
Leaks when closed	1. Inspect seat for wear or damage and replace if needed. 2. If valve is more the 5 years old replace seat. 3. Inspect the float for damage and replace if needed. If float is damaged contact factory to review possible sizing or position problems.
Leaking at inlet connection	Tighten valve connection. If valve still leaks remove valve from system and re-attach with new Teflon tape or liquid Teflon.
Leaking around the cover	Tighten bolts Inspect O-ring

Testing:

1. Make sure the valve is isolated from the system, by closing the shut-off valve.

2. Install a drain valve where the bottom drain plug is located.

3. Open the shut-off valve.

4. Slowly open the drain valve until flow can be heard. If water is released the valve is working properly, if air is released the valve should be tested further (follow steps below).

5. Close the shut-off valve.

6. Open the drain valve to allow fluid to drain (if it is hard to get the valve to drain see trouble shooting guide) & then close the drain valve.

7. Slowly open the shut-off valve to fill the valve.

8. Note the actions of the valve as it closes, if leakage take place see the trouble shooting guide.

Information needed to order repair parts:

Valve Model Number
Valve Size
Valve working Pressure

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