

AUTOMATIC AIR RELEASE VALVE MODEL S-014, S-016, S-100

GENERAL

1. The periodic maintenance of the air valve is an integral part in the proper regimen of water pipeline maintenance.
2. The air valve should be maintained at least once a year in accordance with the quality of the water and the types of fluid composition in the system.

INSTALLATION

1. The air valve will be mounted on a riser, connected to the top of the pipe.
2. An isolating valve will be installed below the air valve.

OPERATION

The Automatic Air Release Valve continuously releases entrapped air from peaks in the pipeline and along pressurized systems.

PERIODIC MAINTENANCE (Fig. 1)

1. Shut the isolating valve below the air valve.
2. **WARNING: Air Valve under Pressure.** Slowly unscrew the cover Bolts (9), using the crossover method in order to release the accumulated pressure from the air valve.
3. Separate the Cover (4) from the Body (13).
4. Wash the Cover and the Orifice Assembly - Orifice (5), Rolling Seal (7), Lever (10) and Float (12) - under clean running water. Use a burst of compressed air to dislodge any debris caught in the Orifice.
5. Check to make sure the Rolling Seal is not damaged (not torn or cracked). If the Rolling Seal needs to be replaced, proceed to: Instructions for Replacing the Rolling Seal.
6. Wash the Body and O-Ring (8) under clean running water. Make sure the O-Ring sits securely in its groove in the Body.
7. Reinstall all parts in the correct reverse order, fasten and tighten all Bolts.
8. Open the isolating valve beneath the air valve.

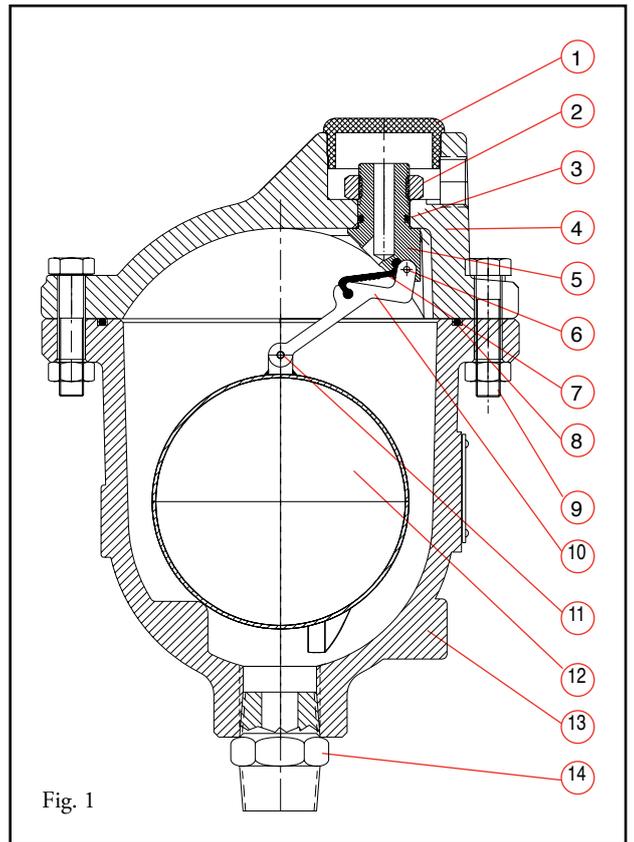
INSTRUCTIONS FOR REPLACING THE ROLLING SEAL (Fig. 1)

1. Begin with Step 4 above in Periodic Maintenance.
2. Pry open and remove the Orifice Cover (1) with the aid of a small flat screwdriver.
3. Unscrew the flat Nut (2) from inside the Orifice Cover housing.
4. Push down on the Orifice and Float Assembly (5) (12) from the top of the Cover (4) and separate it from the Cover.
5. Remove the damaged Rolling Seal (7) by extracting from both ends of the Lever (10).
6. Replace with a new Rolling Seal by inserting the ends of the seal into each side of the Lever.
7. Reinsert the Orifice and Float Assembly into the Cover by pushing the threaded end of the assembly up through the bottom hole in the Cover.
8. Align the 2 pins in the Cover with the slots in the threaded end of the assembly.
9. Screw the flat Nut on to the threaded part of the assembly.
10. Insert the Orifice Cover into the top of the Cover.
11. Place the Cover with the attached assembly on the air valve Body (13).
12. Insert the 4 Bolts and Washers (9) into the Cover holes and tighten with the Nuts.



PARTS LIST

| No. | Part |
|-----|-------------------|
| 1. | Orifice Cover |
| 2. | Nut |
| 3. | O-Ring |
| 4. | Cover |
| 5. | Orifice |
| 6. | Rollpin |
| 7. | Rolling Seal |
| 8. | O-Ring |
| 9. | Bolt, Nut, Washer |
| 10. | Lever |
| 11. | Rollpin |
| 12. | Float |
| 13. | Body |
| 14. | Adapter |



TROUBLESHOOTING GUIDE

| PROBLEM | REASON | SOLUTION |
|--------------------------|--|--|
| Leaking from the orifice | a. Dirt particles stuck in the orifice | a. Close the shutoff valve, wait a minute and quickly open again. If leaking continues, follow the instructions for: PERIODIC MAINTENANCE. |
| | b. Rolling Seal torn or cracked | b. Follow instructions above for: INSTRUCTIONS FOR REPLACING THE ROLLING SEAL. |

