

Installation and Maintenance of A.R.I.'s D-014, D-016 , D-100 Combination Air Valves

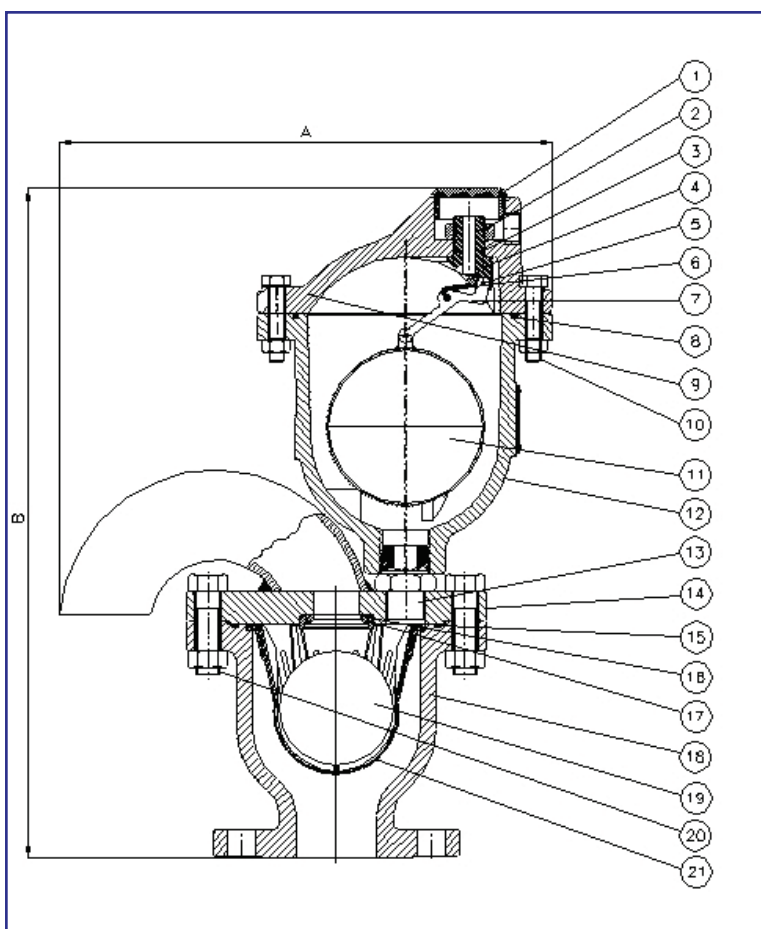
A. Installation

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



B. Basic, Periodic, Maintenance

- B.1 Shut the isolating valve below the air valve.
- B.2 Unscrew the cover's bolts of the automatic air valve (10) slowly, to release accumulated pressure .
- B.3 Remove the plastic cover of the automatic a.r.v. (1) with screwdriver , clean the orifice (4) with flowing water and with thin copper wire . Wash the inside of the body(12), the float(11), and the Rolling Seal (6), with clean water .
- B.4 Check to make sure the Rolling Seal is unharmed (not torn or cracked) .
- B.5 Reinstall in reverse order and fasten and tighten all bolts. Make sure to re-assemble all the components correctly.
- B.6 Unscrew the bolts (20) that connect the main valve cover (14) to its body (18).
- B.7 Wash the body and the cover in clean water in order to remove coarse grime or accumulated scale.
- B.8 Reinstall in reverse order and fasten and tighten all bolts. Make sure to re-assemble the upper air valve correctly:
- B.9 Open the isolating valve beneath the air valve.



D. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Leak From the Small Orifice	a. Dirt particles stuck in the orifice b. Rolling Seal torn	a. Shut the isolating valve, wait a minute, and open it again, very fast. If leaking continues, go to b. b. Shut the isolating valve, Unscrew the cover bolts of the automatic air valve, slowly, to release accumulated pressure. Remove the plastic cover with a screwdriver and clean the orifice with flowing water and with a thin copper wire. Wash the inside of the body, the float, and the Rolling), with clean water c. Check to make sure the Rolling Seal is unharmed (not torn or cracked). Replace the Rolling Seal if needed.
Leak From the Large Orifice	Dirt particles stuck on the orifice seal, on the orifice seat, or on the float.	a. Shut the isolating valve, wait a minute, and open it again, very fast. If leaking continues, go to b. b. Shut the isolating valve, unscrew the air valve cover bolts, remove the cover, and remove float. Check if the seal, the seat, or the float are dirty, and clean them.



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