

## COMBINATION AIR VALVE BARAK, MODEL D-040-C 2"

### GENERAL INSTRUCTIONS

1. Routine service is an integral part of the standard procedure for maintenance of a water supply system.
2. Recommended routine maintenance— once or twice a year, according to the quality and type of the fluids in the system.

### INSTALLATION

1. The D-040-C combination air valve should be installed vertically on a riser on the crown of the pipeline.
2. An inlet isolating valve should be installed underneath the D-040 air valve.

### PERIODIC MAINTENANCE

1. Routine service is an integral part of the standard procedure for maintenance of a water supply system.
2. Recommended routine maintenance - at least once a year, according to the type and quality of the liquids in the system.

### PROCEDURE

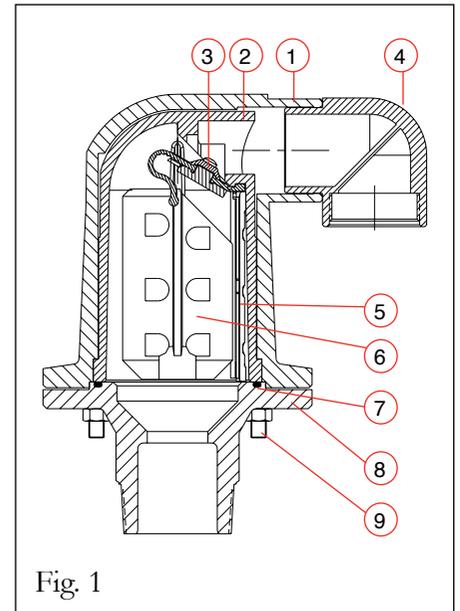
1. Close the service valve under the valve base before servicing.
2. Loosen and remove the four bolts and nuts (9).
3. Remove the metal shell (2) and enclosed valve body (1).
4. Remove the clamping stem (5) from the valve body (1) and carefully pull out the float (6) with the attached rolling seal assembly (3).
5. Check the soundness of the rolling seal assembly (3) by washing it with water and examining it. **Note:** Replace the seal assembly (3) in case it is torn.
6. Wash the body (1) and the float (6) with clean water and examine for damage. **Note:** Replace the float (6) if it is damaged.
7. Clean the drainage elbow (4) to remove insects and debris.
8. Return the float (6) with the attached rolling seal assembly (3) to its original position in the valve body (1) and lock them into place with the clamping stem (5).
9. Place the metal shell (2) and enclosed valve body (1) on the base (8). **Note:** First make sure the O-ring (7) is seated properly in the base of the valve (8).
10. Attach by inserting and tightening the four bolts and nuts (9).
11. Remember to open the service valve after the servicing.



## PARTS LIST (fig.1)

### No. Part

- |    |                       |
|----|-----------------------|
| 1. | Shell                 |
| 2. | Body                  |
| 3. | Rolling Seal Assembly |
| 4. | Discharge Outlet      |
| 5. | Clamping Stem         |
| 6. | Float                 |
| 7. | O - Ring              |
| 8. | Base                  |
| 9. | Bolt & Nut (x4)       |



## TROUBLESHOOTING GUIDE

PROBLEM	REASON	SOLUTION
Discharge Outlet is broken.	Valve was hit or mishandled.	Easy to replace: gently pry off the outlet with screwdriver Pressure insert the replacement part using a plastic hammer. Replacement part can be ordered from A.R.I. Note: The part is not mandatory for the function of the valve.
Outlet thread size needed in order to attach a vent/drain pipe.	End user needs to connect a vent/drain pipe from the discharge outlet.	1" D-040-C has 3/8" female thread. 2" D-040-C has 1/4" female thread. End of pipe must be left open in order for valve to function.
Valve spits water.	This is normal at start up and during pressure test. Could be debris in the sealing mechanism.	Perform <b>PROCEDURE</b>
Valve is continuously leaking.	Line pressure issues (inadequate pressure) or debris lodged in seal or o-rings.	Check line pressure. It needs at least 3 psi to seal tight. Is the valve on a booster pump? Can be installation issue if valve is level with the water level in a tank - there is no pressure to seal. Perform <b>PROCEDURE</b>
Valve leaks from threads.	Plastic threads stripped.	Check for cross-threading. Replace bottom of valve or offer the cast metal base.

