

COMBINATION AIR VALVE FOR WASTEWATER MODEL D-025L



A. Installation

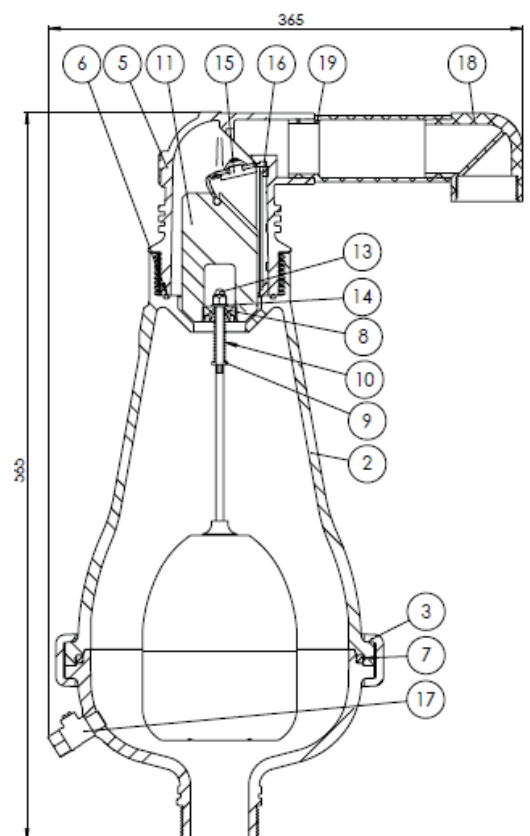
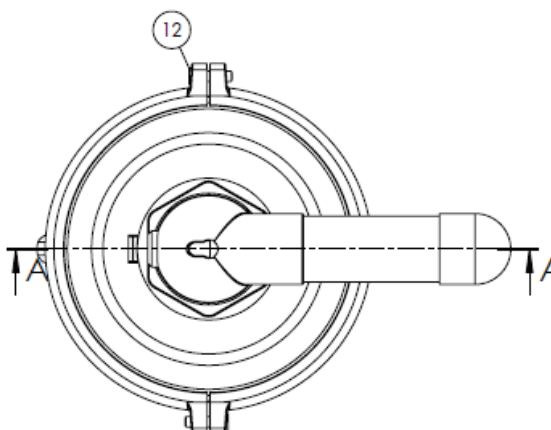
1. The SAV (sewage air valve) should be installed vertically on a riser on the crown of the pipeline.
2. An inlet isolating valve should be installed underneath the SAV.
3. Do not turn the plastic head (5) of the SAV, separately. It can cause a leakage.
4. To change the direction of drainage outlet, open the main body-clamp and turn the air valve upper body.
5. For flanges, fit protective washer for each bolt.

Warning! Do not remove or disassemble the air valve from pipeline before performing the following steps:

1. Turn off riser shut off valve.
2. Open up pressure release valve located on the base of the D-025L and the shut off valve.
3. Remove valve from line only after ensuring that internal pressure in the valve has been released.

B. Periodic Maintenance for SAV without back wash assembly (Each 6 months and according to liquid quality).

1. Shut the isolating valve underneath the air valve.
2. Open pressure relief valve (17) and make sure that internal pressure inside the SAV body is released.
3. Open and remove the two parts of the clamp.(3)
4. Pull out the top part, wash the mechanism and the inside of the SAV.
5. Reassemble the two parts and tighten the screws (3 - 12)
Pay attention to correct placement of the seal's O-Ring (7)
6. Re-open the inlet isolating valve.



TROUBLE SHOOTING

SYMPTOM	CAUSE	CORRECTIVE ACTION
Cam-lock broken	Valve was hit or thrown around	This does not hurt the function of the valve. Order replacement part .
Valve leaking from middle of body	O-ring seal not in place, or the clamps are not properly tightened	Often the maintenance people open the valve to see what is inside and do not close it properly or lose the o-ring or do not put the o-ring back in place. Check for debris in this area and wash out valve and return to service.
Valve leaking from the top, at connection of D040 to valve body	If leaking from the Cam-lock then shut off valve, release pressure from the ball valve and open to clean. If liquid is getting to the top section there is something that is preventing the valve from closing properly.	Close shutoff and release static pressure, then open the valve at clamps. Fully clean out the insides, with hot water if possible. Check the top float assembly and the rolling seal. Replace parts as necessary.
Threaded pipe connection is leaking	The nylon thread was compromised in installation	Suggest a double threaded nipple fitting for future use. Replace the bottom section and O-ring.
Valve body exploded	Line pressure spikes, and water-hammer/surge Incorrect valve selection or placement.	Obtain field report from end-user, and check position of valve on line. D-025L is not recommended for the pump stations due to the design of the float, which can close under air pressure and cause water hammer and surges. This is a system problem, so contact A.R.I. immediately, for analysis of issue and recommendations.
Valve spits and then seals	The liquid is entering the valve at high velocity and the lighter material on top of the water is thrown past the float and out the top before the water arrives. The D025L is used as first valve after pump, and placed at some distance.	Recommend to switch to a D-020. This happens at start up and is common when there is a half full pipe with light material floating on top of the liquid when the pump turns on and the valve is attached to the flat portion of the pipe.

