

## CR Air Vent Kit Installation Instructions

1. **WARNING:** Do not exceed the maximum allowable working pressure noted on the air vent label.
2. Attach the enclosed lock nuts to both ends of the air escape pipe. Thread the nuts as far as the threads allow but leave them loose.
3. Apply Teflon tape (5 – 7 turns) to the male threads at both ends of the air escape pipe.
4. Apply pipe dope to the threads of the pump head port. Thread one end (see step 4 a-c) of the air escape pipe into the pump head port leaving the other end of the pipe facing vertically upwards. Tighten the lock nut to hold the air escape pipe firmly.
  - a. CR 1s to 20,  $\leq 3$  HP: Install short end of pipe in pump head port.
  - b. CR 1s to 20,  $\geq 5$  HP: Install long end of pipe in pump head port.
  - c. CR 1s to 20, Horizontal: Install either end of pipe in pump head port.
  - d. CR 32 to 90, All: Install long end of pipe in pump head port.
5. **WARNING:** When tightening a pipe into either the inlet or discharge fittings of CR air vent use only the hex-shaped fittings as wrenching surfaces. Do not use other parts of the vent for wrenching as unnecessary stress may be placed on the vent body.
6. Apply pipe dope to the threads of the air vent and attach the air vent to the air escape pipe being sure to place the end with the off center fitting and label at the highest point. Tighten the lock nut firmly to hold the air vent in place.
7. The ½" BSPT air vent discharge should be plumbed to drain. It is best if the drain line is open to atmosphere and viewable where leakage can be detected. The diameter of the discharge piping can be reduced if necessary. Keep the discharge line as short as possible, with a minimum of valves and fittings for optimum venting.
8. Air vents should be installed so that they can be checked periodically.
9. **CAUTION:** Do not install air vents with an open discharge where a malfunction can cause damage or injury (i.e. above false ceilings, near walk way, etc...).



## Troubleshooting – CR Air Vent

1. To check the air vent, disconnect the outlet piping and observe the discharge from the unit. If the vent is working correctly, a little air should escape, followed by a small amount of liquid.
2. When a CR Air Vent is not operating properly, remove it from service and force water or air through the discharge fitting. Back-flushing to remove scale and dirt often restores the air vent to its normal operating condition.
3. When a CR Air Vent cannot be made to operate properly, replace it with a new one.

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