

INSTALLATION INSTRUCTIONS FOR AUTOMATED VALVE - HSSCRALVA1

Installation Details:

- Figure 1 shows the air valves used to redirect air to the scrubber. The sensor is to be mounted at either 9, 12 or 3 o'clock or anywhere in between as long as it is on the top half of the pipe.
- Figure 2 shows the parallel instrument tee for the scrubber inlet. Make sure that the 1" flange is installed above the 4" vapor piping so that any liquid drains into the scrubber.
- The control box contains two timers that will need to be adjusted. Both timers are initially set to 2 seconds for quick testing purposes. They must be set in the field after installation and testing the circuit. (See the Adjusting Timer Relays section for instructions.)

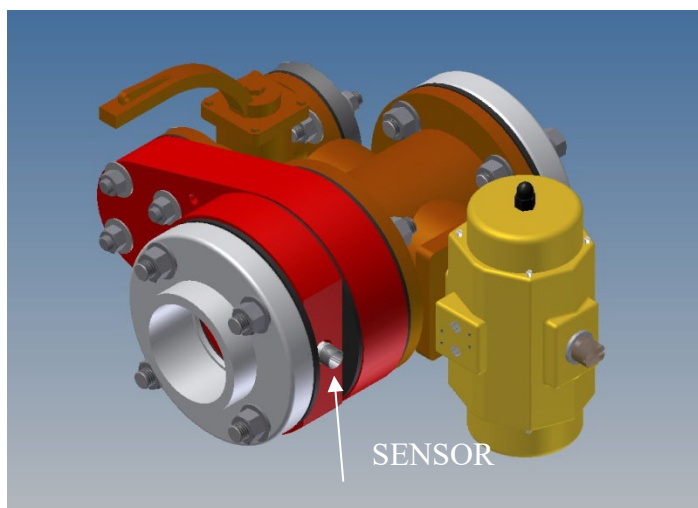


Figure 1

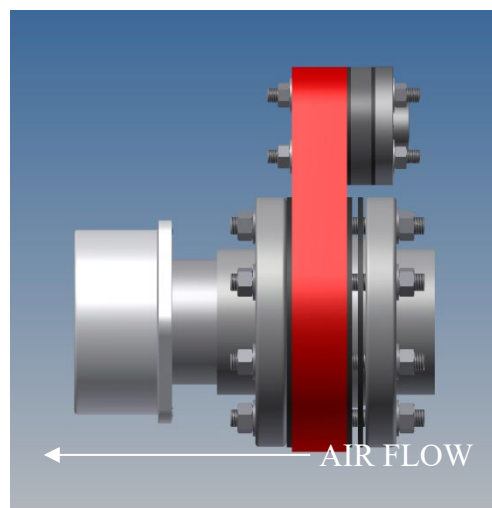
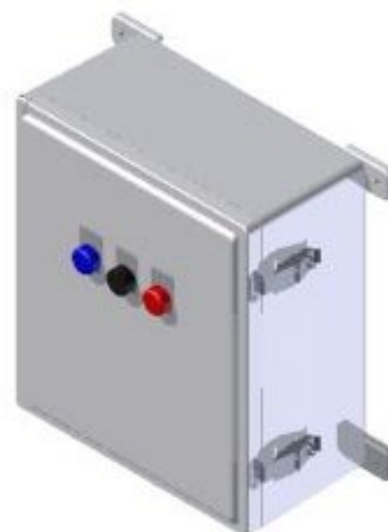


Figure 2

Basic Operation:

- Connect the fluid transfer hose and make sure that the control box has power (the blue "CLOSE" light should be illuminated).
- When ready press the "RUN" button to open the 3" valve. The red "OPEN" indicator light will turn on, indicating the valve is open. At this point, Timer Relay A is in time delay mode until the set time elapses or the sensor sees liquid. The valve will remain open until either Timer Relay A expires or loading is complete. For Timer Relay A, 15 minutes is a good initial setting.

NOTE: While the 3" valve is in the process of opening or closing, both the red and blue indicator lights will be illuminated. This simply indicates that the valve is between its open and closed positions.



- When the trailer begins to empty and air is pushed through the hose, the sensor will detect the air. Once air is detected the Timer Relay B is activated. After the set amount of time passes the relay will be tripped. The 3" valve will close and the blue "CLOSE" indicator light will illuminate. For Timer Relay B we suggest an initial setting of 10 to 15 seconds.

NOTE: The sensor must see air continuously for the set time. If the sensor sees liquid in the middle to the time delay, the timer is reset.

- After the 3" valve closes, manually open the 1" valve to depressurize the trailer through the scrubber.
- When the trailer has depressurized, close the 1" valve and disconnect the fluid transfer hose.

Adjusting Timer Relays:

- To adjust the timer settings a small Philips head screwdriver will be needed.
- The upper dial is numeric while the lower dial sets the time multiplier.

Example:

- For 4 minutes
 - set the upper dial for "4"
 - set the lower dial for "1m"
- For 8 seconds
 - set the upper dial for "8"
 - set the lower dial for "1s"

