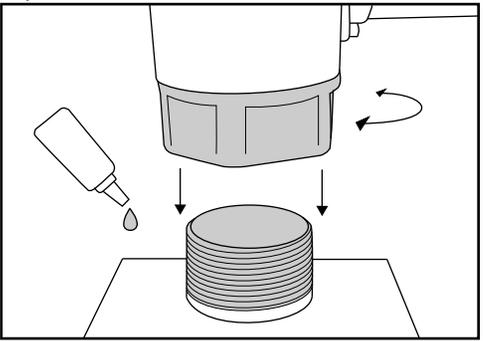
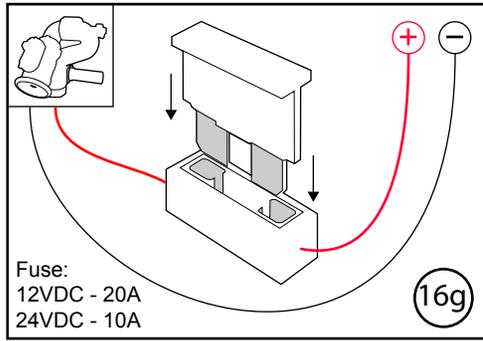


1. A. Tighten Sidewinder EXM monitor to base using Loctite 592 thread sealant or equivalent.



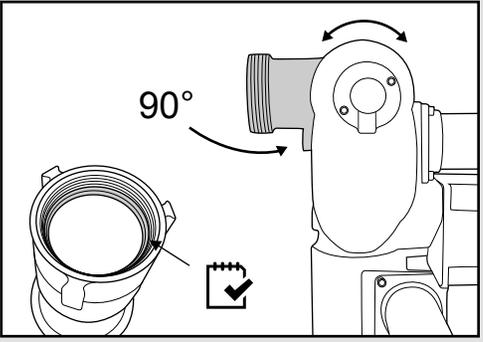
B. Supply power to components. Install a fuse in the positive power lead.



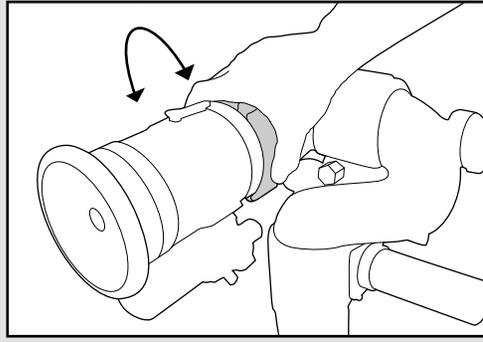
NOTE: We recommend using 16 AWG for monitor power and ground. See installation instructions section of the Sidewinder EXM manual (98317000) for length to gauge recommendations.

MONITOR

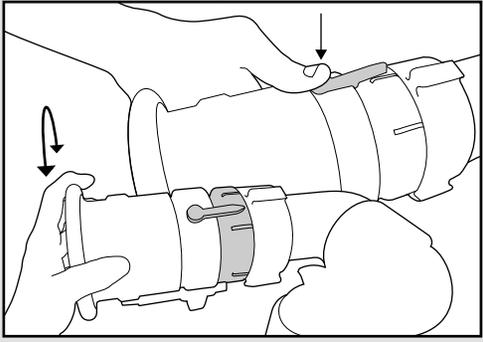
2. A. Position monitor discharge elbow parallel to ground. Ensure gasket is inside nozzle swivel.



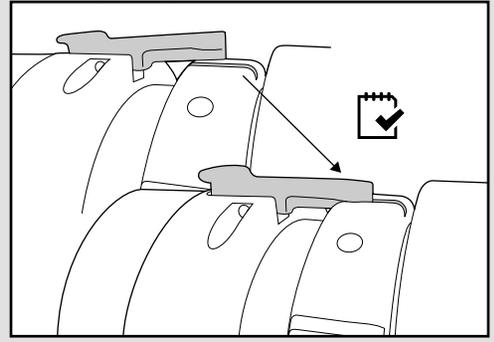
B. Hand tighten nozzle to monitor using swivel end piece.



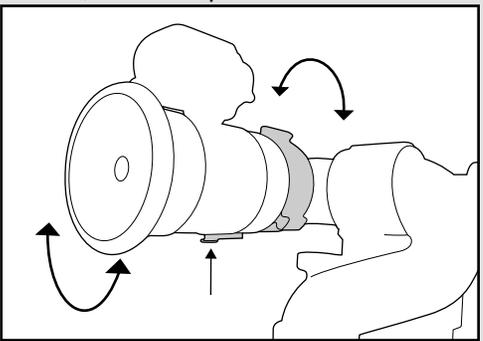
C. Adjust flow by pressing down on locking lever and rotating nozzle to desired flow setting.



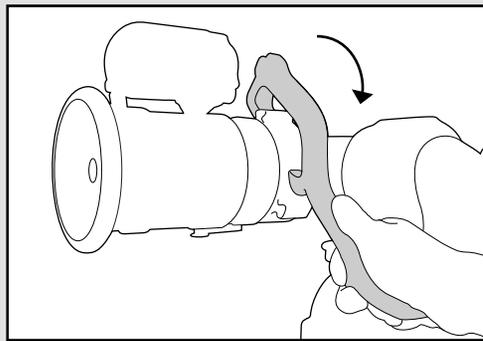
D. Confirm that locking lever is snapped securely into position.



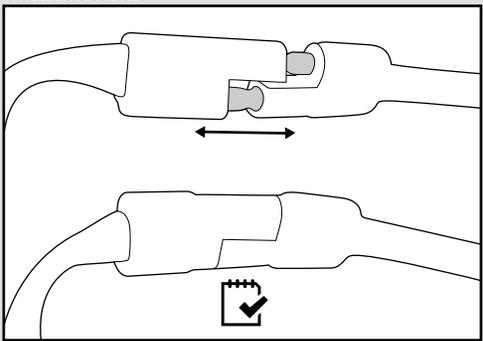
E. Loosen swivel and reposition nozzle so the locking lever is on the very bottom; 6 o'clock position.



F. Tighten swivel using a spanner wrench to ensure a secure connection.



G. Connect nozzle and monitor two-way connectors.

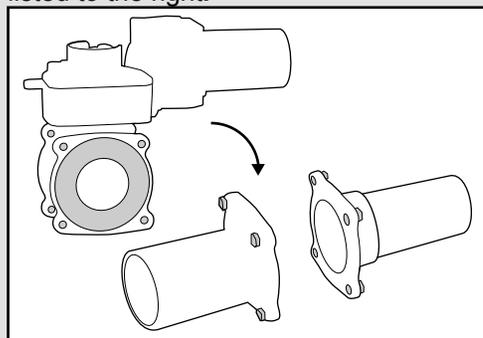


NOZZLE

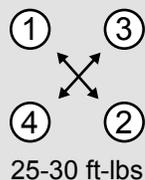
3. Confirm that all connections are tight and all electrical connections have been reconnected. If installing additional components, such as controllers, you may choose to double check the connections after everything has been installed.

■ - Joystick Controller
 ■ - OEM Interface Module
 ■ - Handheld Controller / Docking Station

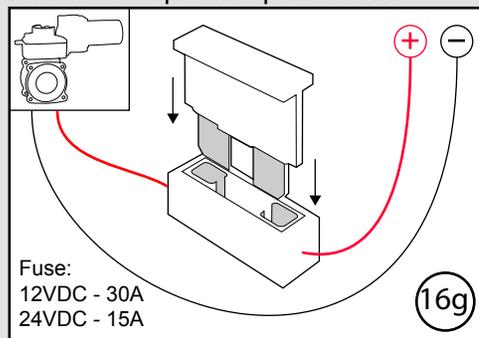
4. A. Install valve into plumbing. Torque adapter bolts to spec using torque specs listed to the right.



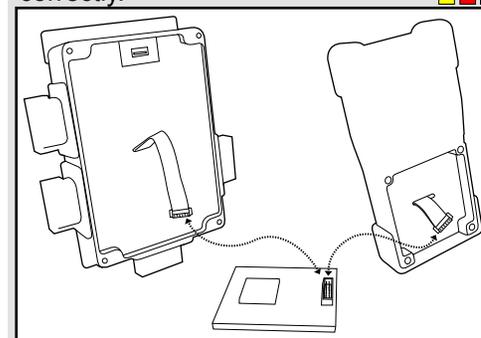
Tighten Adapter Bolts using a cross pattern



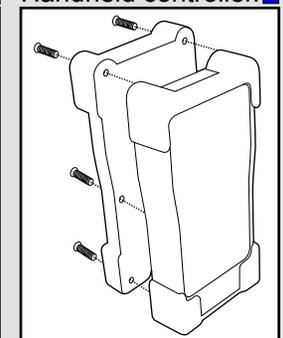
B. Supply power to components. Install a fuse in the positive power lead.



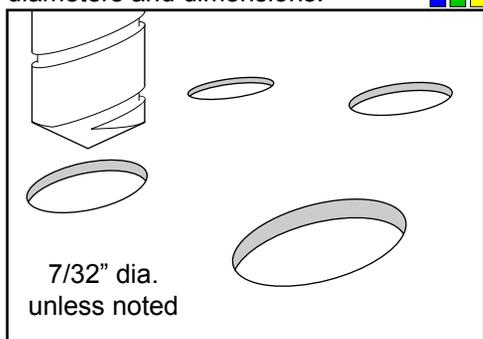
RF Installation - The cable will run the length of the RF Module when installed correctly.



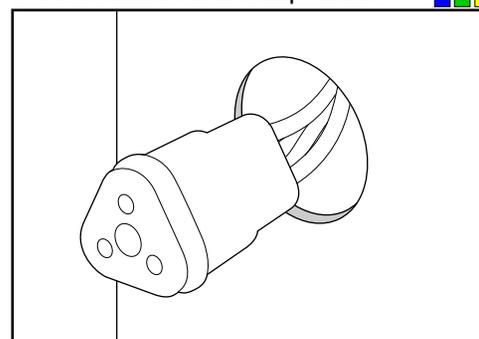
Connect power and attach battery pack to Handheld controller.



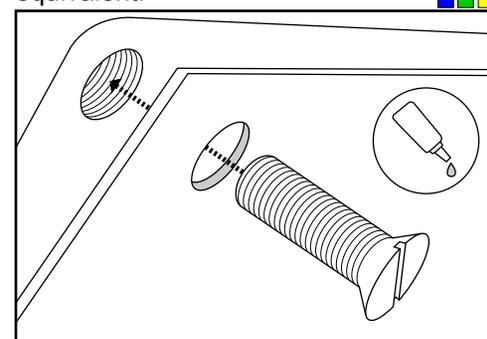
5. A. Follow mounting templates on page 41 of the instruction manual for hole diameters and dimensions.



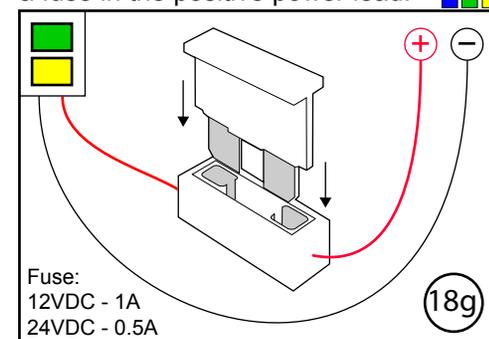
B. Drill holes for CAN network and power cables for each components' leads behind each component.



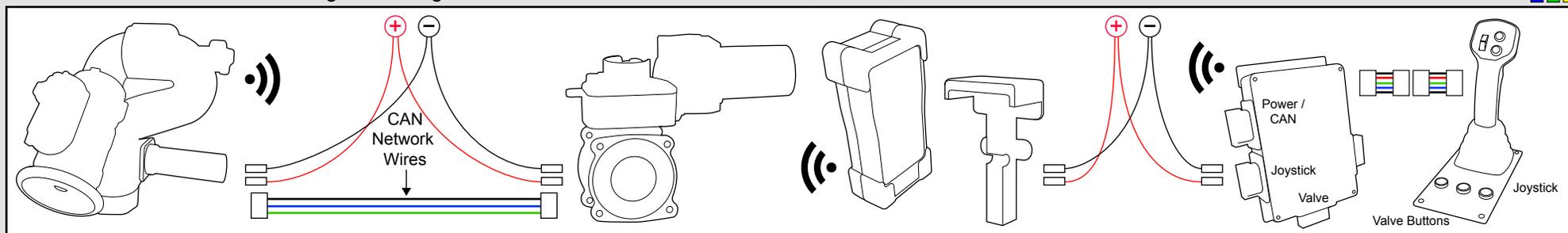
C. Mount components to panel using 10-24 x 1/2" screws. Use Loctite 242 or equivalent.



D. Supply power to components. Install a fuse in the positive power lead.



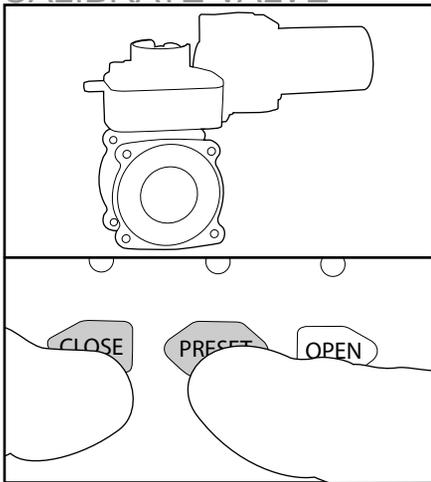
6. A. Connect entire CAN network together using 18-22 AWG. Please refer to the BLUE, GREEN, and BLACK lines as the CAN wires below.



7. Before continuing, please refer to the EXM Configuration Tool Manual (98510000) to configure the EXM system.

CALIBRATE VALVE

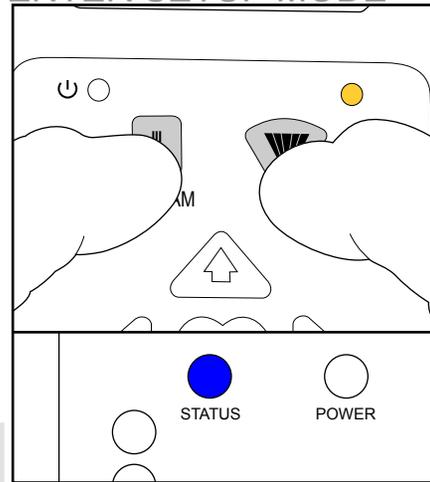
NOTE: You will need to calibrate the valve before use. While you are **NOT** in setup mode, press and hold <Preset> and <Close> for approximately 5 seconds. The valve will automatically start to calibrate itself.



Press and hold <Stream> and <Fog> until yellow status LED on controller and blue status LED on monitor box turn on.

From a Joystick Controller, press and hold <Aux> and <Preset> until LEDs turn on.

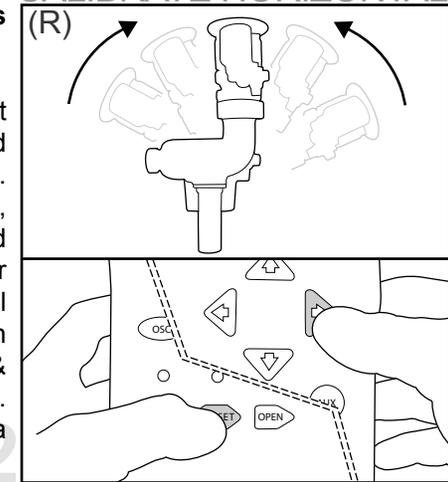
ENTER SETUP MODE



This step is required (R).

Aim monitor at center forward "zero" position. Hold <Preset>, then press and hold <Left> or <Right> until status LED on monitor blinks & returns to solid. Takes about a second.

CALIBRATE HORIZONTAL

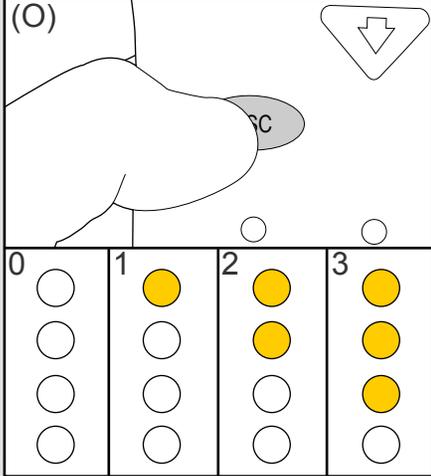


The following steps are optional (O).

Pressing the <Osc> button will cycle through the monitor speed options:

LEDs - Ver / Hor
 0 - Fast / Fast
 1 - Slow / Fast
 2 - Fast / Slow
 3 - Slow / Slow

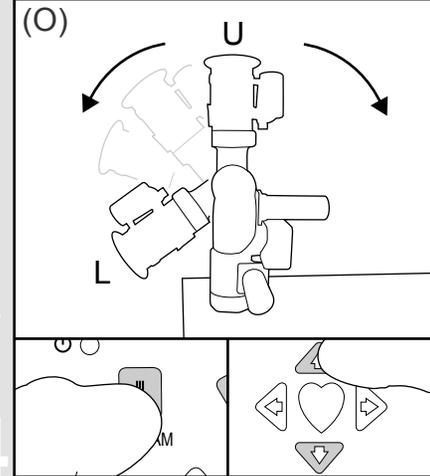
SET MONITOR SPEED



Move monitor to a travel limit position. Hold <Stream>, and press the down arrow to set the lower limit, and up arrow to set the upper limit.

MAX travel of 135° below the pre-calibrated "zero" position.

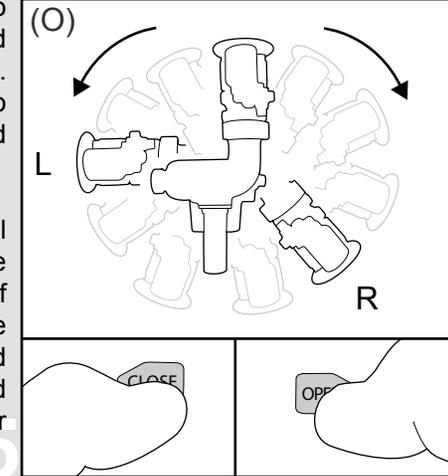
SET VER TRAVEL LIMIT



Move monitor to the left limit and press <Close>. Move monitor to the right limit and press <Open>.

Maximum Travel limits will give approx 175° of travel from the calibrated horizontal forward position in either direction.

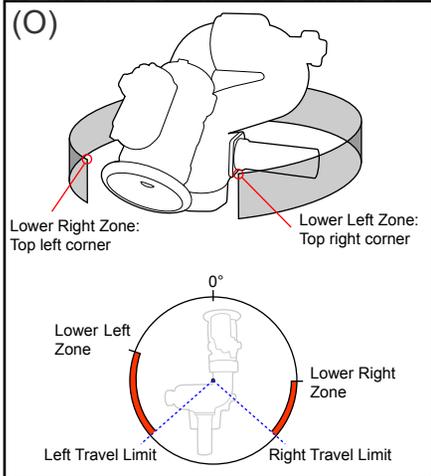
SET HOR TRAVEL LIMIT



Lower Left:
 Move to top/right corner of the lower left zone, hold <Preset>, press <Close>, and release both.

Lower Right:
 Move to top/left corner of the lower right zone, hold <Preset>, press, <Open>, and release both.

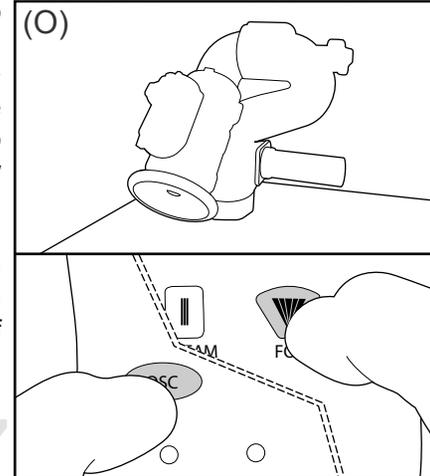
SET KEEP-OUT ZONES



Move monitor to desired position, then press <Fog> and <Osc> at the same time to store a stow position.

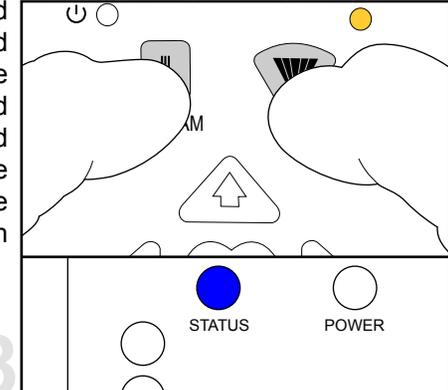
Stow position must be within allowed limits of travel.

SET STOW POSITION



Press and hold <Stream> and <Fog> on the panel mount and <Aux> and <Preset> on the joystick until the status LEDs turn off.

EXIT SETUP MODE



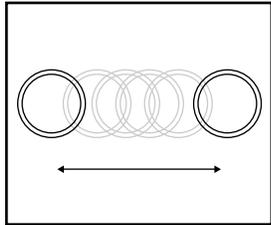
Button Press Logic: Panel Mount, Handheld, and Joystick

To Stow

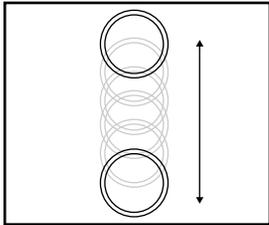
Hold <Fog> and <Osc> until monitor begins to stow.

To Oscillate

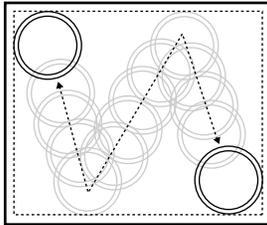
Press the <Osc> button at both extremities of the desired oscillation pattern.



Horizontally



Vertically



Two Axis Oscillation

NOTE: You can manually control nozzle position while in a single axis oscillation. Example: Up and Down will allow you to manually control the vertical axis while in a horizontal oscillation. Any direction in a two axis oscillation will stop the oscillation.

Left, Right, Up, Down

These function normally

Fog & Straight Stream

These function normally

Valve Open & Close

These function normally

Valve Preset

Opens or closes valve to a predetermined position

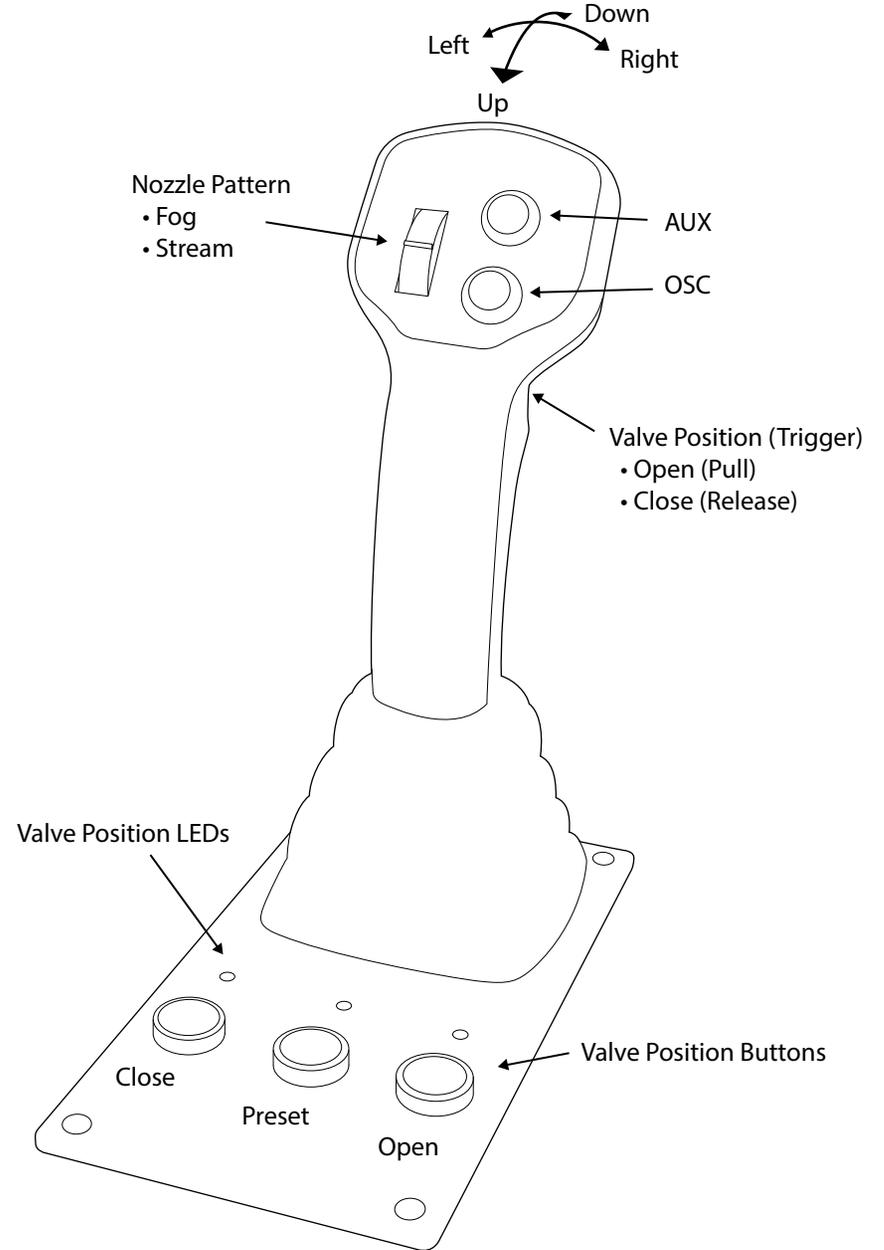
To Change Valve Preset

Open or close the valve to the desired position. Press and hold the <Preset> button until the preset light blinks (approx 10 seconds).

Valve Auto Travel

To auto travel OPEN, hold the <Open> button, then press <Close>, and release both. The valve should fully open automatically. To CLOSE, hold the <Close> button, then press <Open>, and release both.

Joystick Layout:



BUTTON LOGIC

JOYSTICK