**1.** A. Tighten Sidewinder EXM monitor to base or Quick Connect using Loctite 592 thread sealant or equivalent.
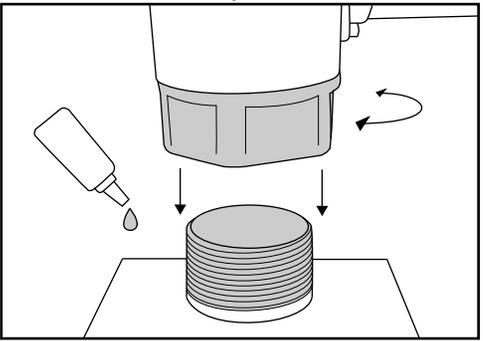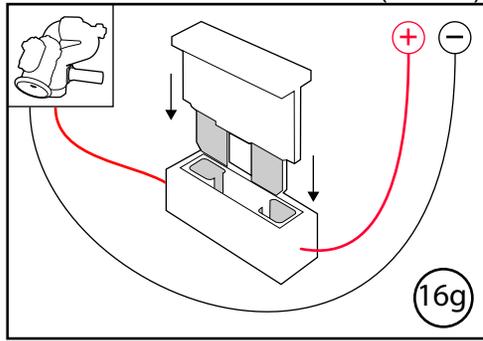
B. Add a 20A(12VDC)* fuse between RED controller lead and positive power lead.   *10A(24VDC)

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.

NOTE: If a Quick Connect is being installed, please refer to the Quick Connect Install Guide. Guide can be found under the Sidewinder EXM manual section at www.elkhartbrass.com.
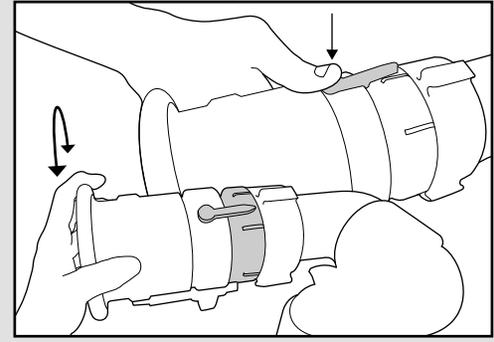
MONITOR

**2.** A. Position monitor discharge elbow parallel to ground. Ensure gasket is inside nozzle swivel.
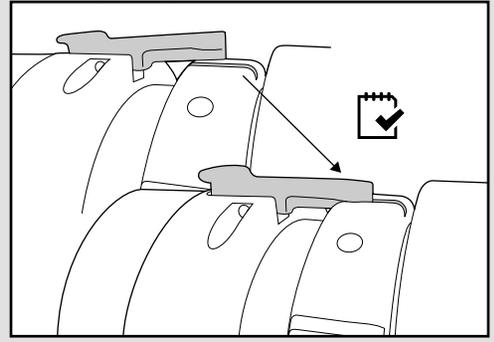
90°
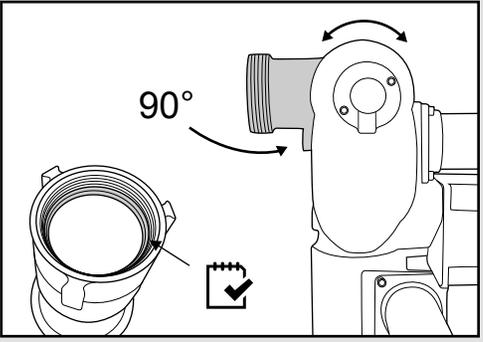
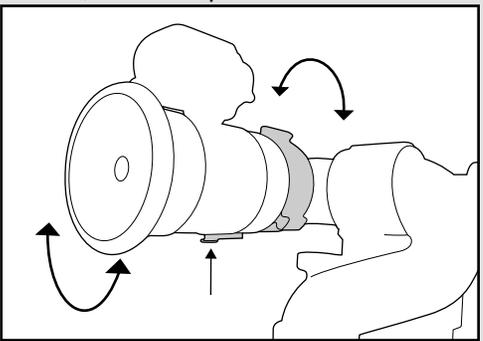B. Hand tighten nozzle to monitor using swivel end piece.
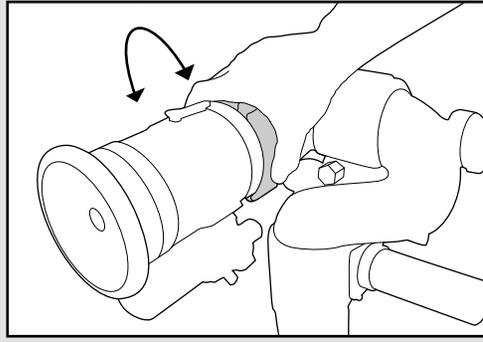
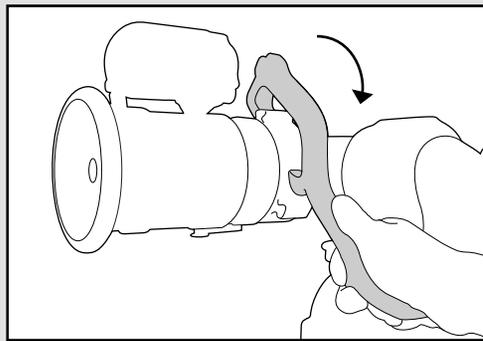C. Adjust flow by pressing down on locking lever and rotating nozzle to desired flow setting.

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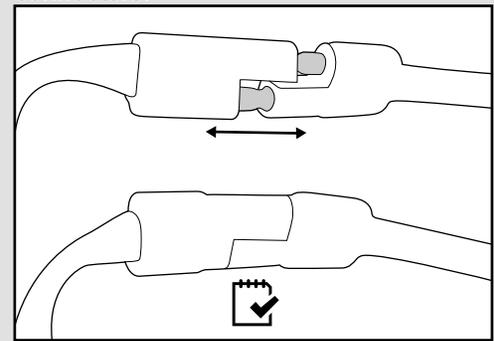
**3.** Confirm that all connections are tight and all electrical connections have been reconnected. If installing additional components, such as controllers, you may choose to double check the connections after everything has been installed.

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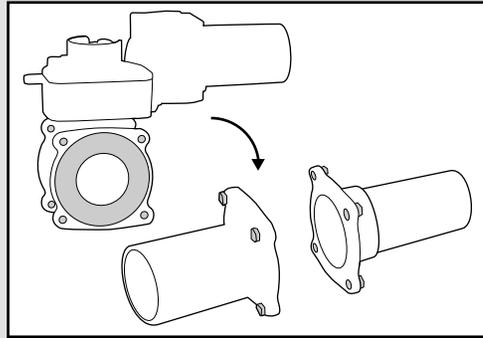| □ (green) | - Joystick Controller | □ (yellow) | - OEM Interface Module | □ (orange) | - Position Feedback Display |

**4.** A. Install valve into plumbing. Torque adapter bolts to spec using **Figure 1.**

B. Add a 30A(12VDC)* fuse between RED controller lead and positive power lead. *15A(24VDC)

**NOTE:** If you need to change the orientation of the electric actuator on top of the valve, follow the instructions on page 16 of the Unibody Valve Manual (98311000). Manual can be found at: www.elkhartbrass.com/downloads/manuals
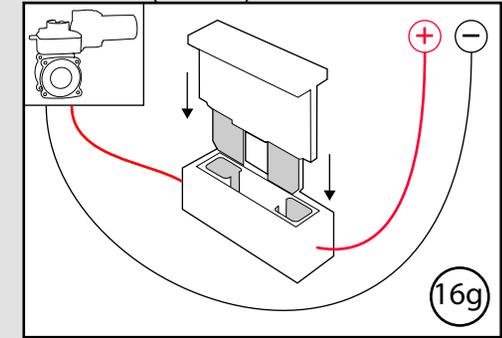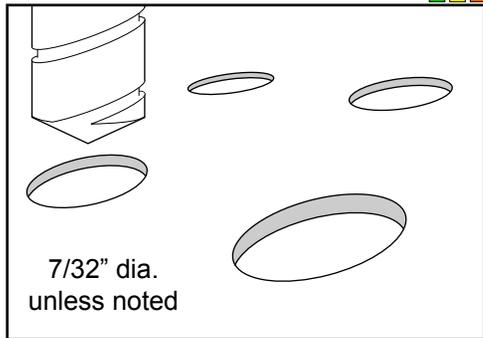
Tighten Adapter Bolts using a cross pattern

① ③
④ ②
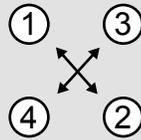
| Valve | Torque |
|-------|--------|
| EB15 | 25-30 ft-lbs |
| EB20 | 25-30 ft-lbs |
| EB25 | 25-30 ft-lbs |
| EB30 | 38-40 ft-lbs |
| EB35 | 38-40 ft-lbs |
| EB40 | 60-70 ft-lbs |

**Figure 1: Torque Specs**

(16g)

**5.** A. Follow mounting templates on page 30 of the instruction manual for hole diameters and dimensions.
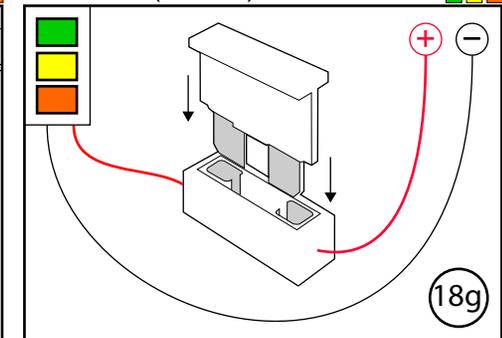
7/32" dia. unless noted

B. Drill holes for CAN network and power cables for each components' leads behind each component.
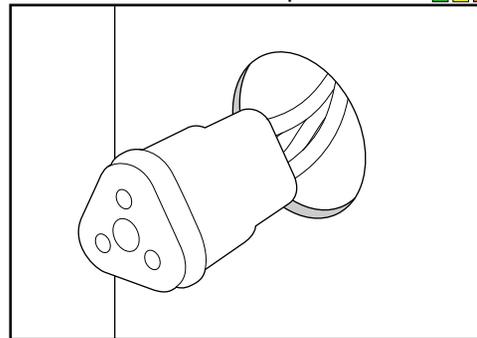
C. Mount components to panel using 10-24 x 1/2" screws. Use Loctite 242 or equivalent.
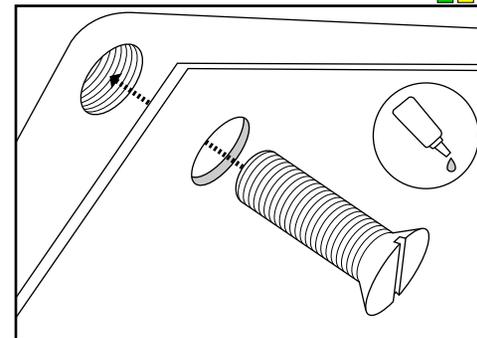
D. Add a 1A (12VDC)* fuse between red component lead and positive power lead. *.5A (24VDC)

(18g)

**6.** A. Connect entire CAN network together using 18-22 AWG. Ensure every component connected to the CAN network is connected in between 2 end components that have CAN termination. Please refer to the BLUE, GREEN, and BLACK lines as the CAN wires below.

CAN Network Wires
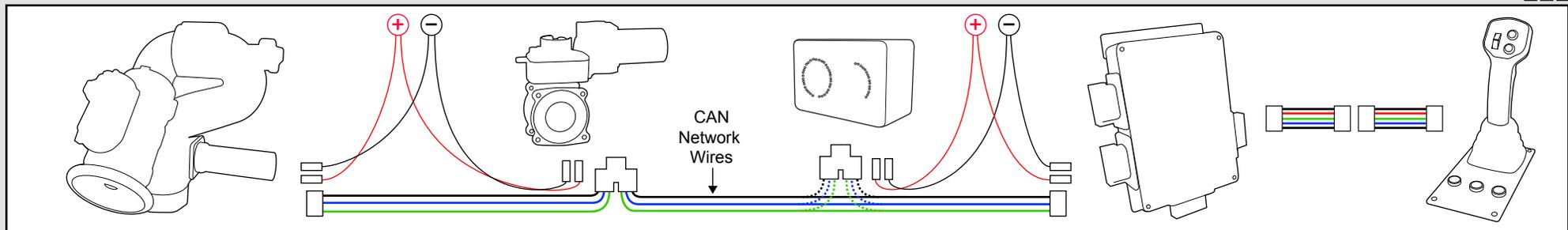
**Before continuing, please refer to the EXM Configuration Tool Manual (98510000) to configure the EXM system.**

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## CALIBRATE VALVE

**NOTE: You will also 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.**
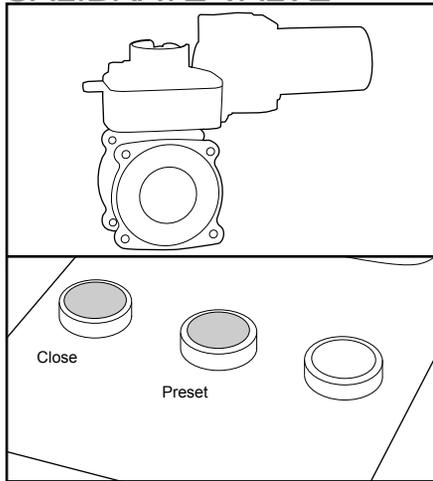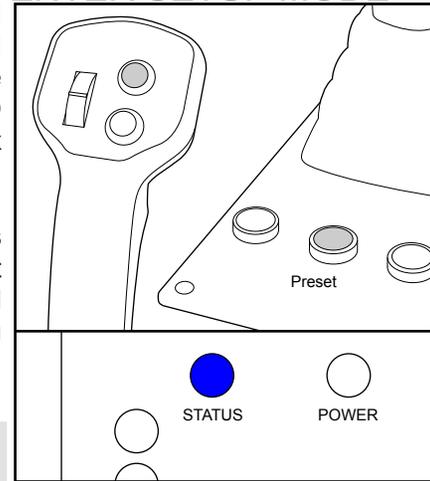
Close
Preset

## ENTER SETUP MODE

Press and hold <Aux> and <Preset> until the blue status LED on monitor box turns on.

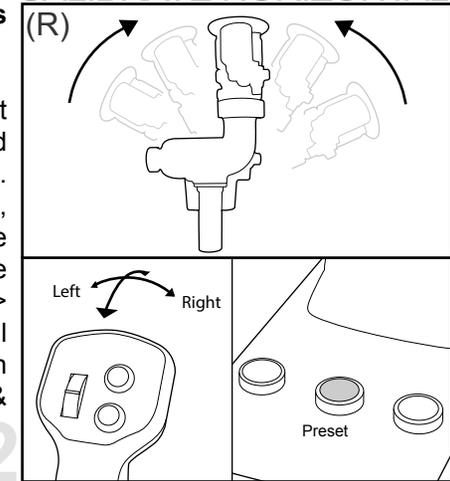NOTE: Changes made will not take effect until after exiting setup mode.

Preset

STATUS    POWER

**1**

## CALIBRATE HORIZONTAL

**This step is required (R).**

Aim monitor at center forward "zero" position. Hold <Preset>, then move the joystick to the <Left> or <Right> and hold until status LED on monitor blinks & returns to solid.
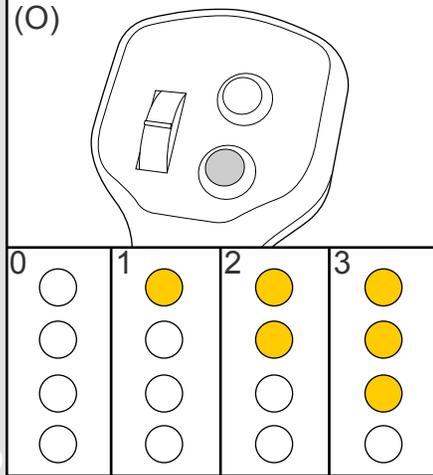
(R)

Left    Right

Preset

**2**

## SET MONITOR SPEED

The following steps are optional (O).

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

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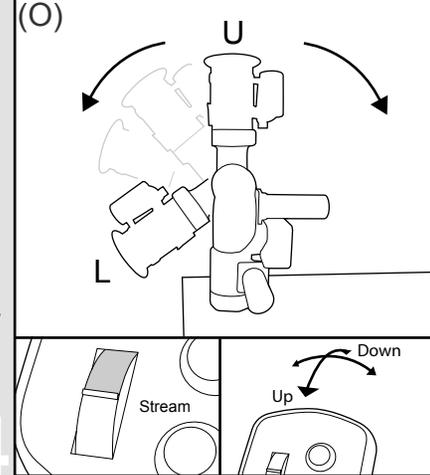0 - Fast / Fast
1 - Slow / Fast
2 - Fast / Slow
3 - Slow / Slow

(O)

0    1    2    3

**3**

## SET VER TRAVEL LIMIT

Move monitor to a travel limit position. Hold <Stream>, and move the joystick forward to set the lower limit, and pull back to set the upper limit.

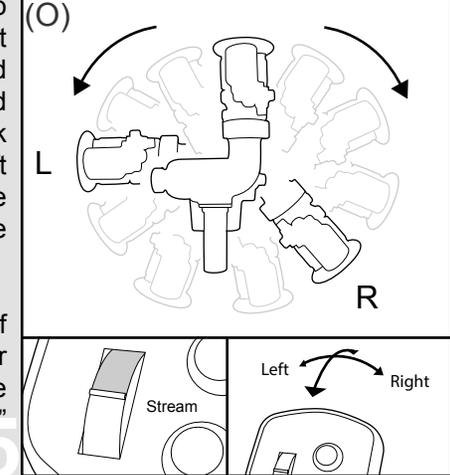MAX travel of 135° below the pre-calibrated "zero" position.

(O)

U

L

Stream    Up    Down

**4**

## SET HOR TRAVEL LIMIT

Move monitor to a travel limit position. Hold <Stream>, and move the joystick left to set the left limit, and to the right to set the right limit.

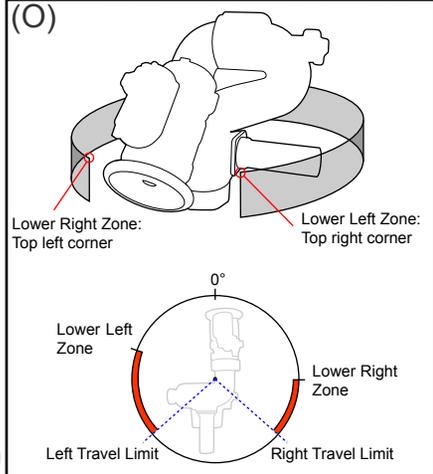MAX travel of 175° in either direction from the calibrated "zero" position.

(O)

L

R

Stream    Left    Right

**5**

## SET KEEP-OUT ZONES

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

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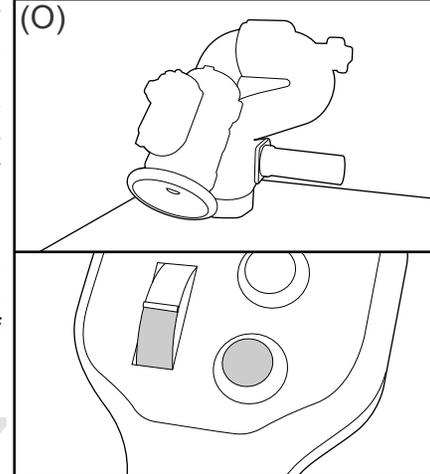Move to top/left corner of the lower right zone, hold <Preset>, press, <Open>, and release both.

(O)

Lower Right Zone: Top left corner
Lower Left Zone: Top right corner

0°
Lower Left Zone
Lower Right Zone
Left Travel Limit    Right Travel Limit

**6**

## SET STOW POSITION

Move monitor to desired position, then press <Fog> and <Osc> at the same time to store a stow position.
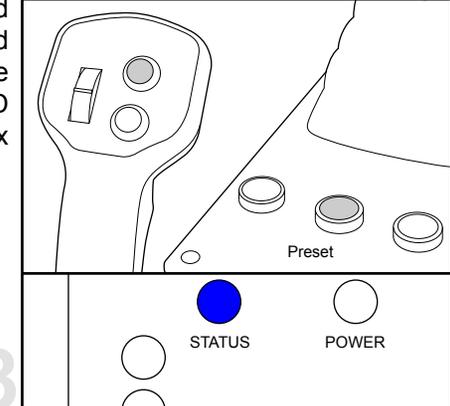
Stow position must be within allowed limits of travel.

(O)

**7**

## EXIT SETUP MODE

Press and hold <Aux> and <Preset> until the blue status LED on monitor box turns off.

Preset

STATUS    POWER

**8**

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**BUTTON LOGIC**

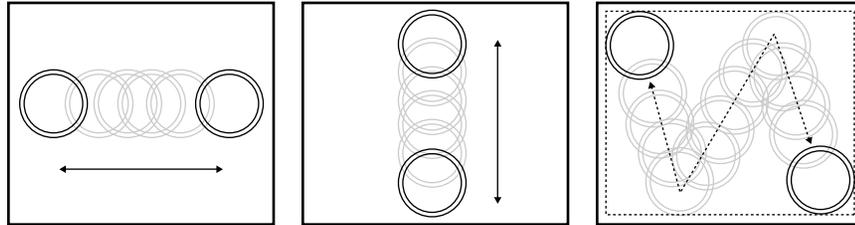**JOYSTICK**

## Button Press Logic: 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**

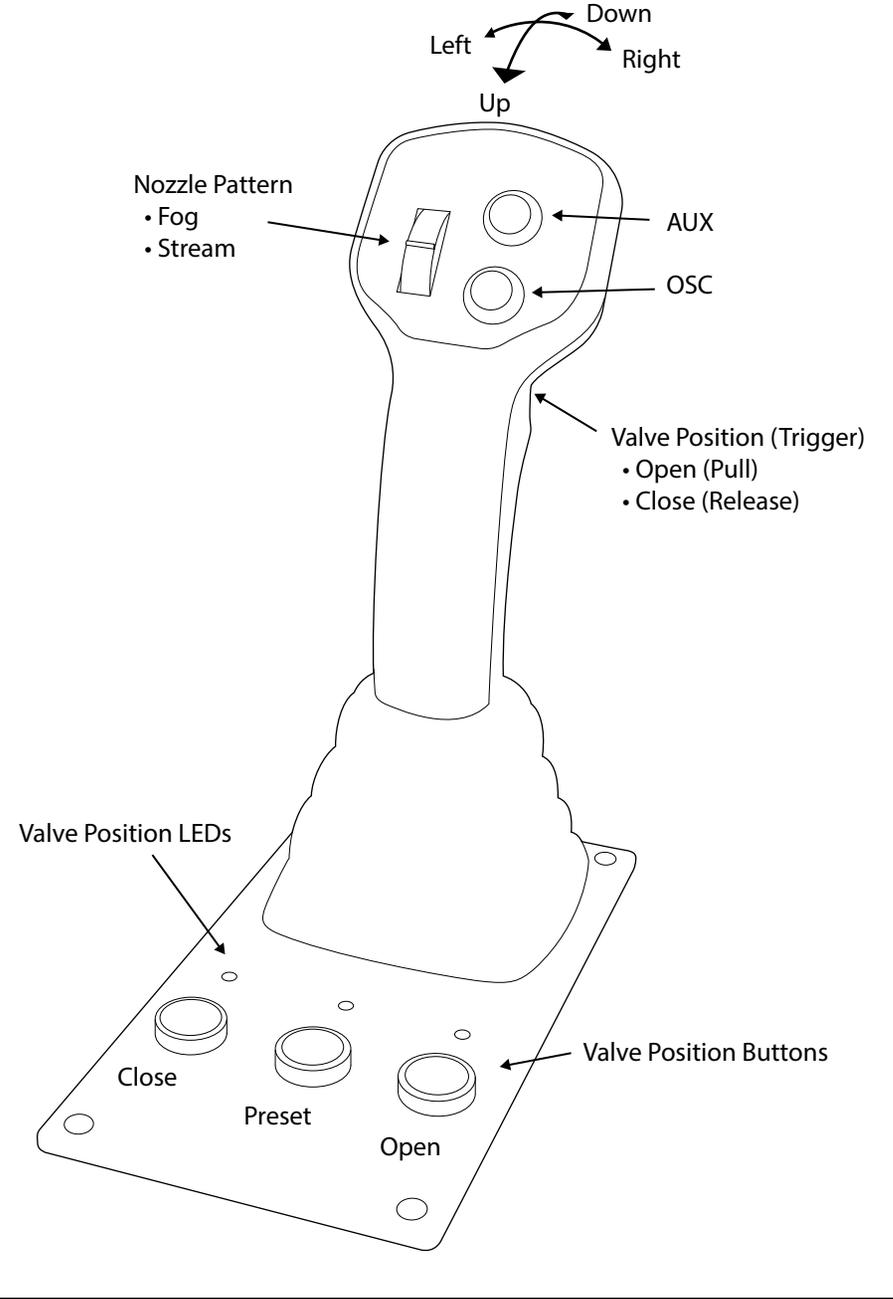Opens or closes valve to a predetermined position

**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:



Down
Left    Right
Up

Nozzle Pattern
• Fog
• Stream

AUX

OSC

Valve Position (Trigger)
• Open (Pull)
• Close (Release)

Valve Position LEDs

Close

Preset

Open

Valve Position Buttons

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