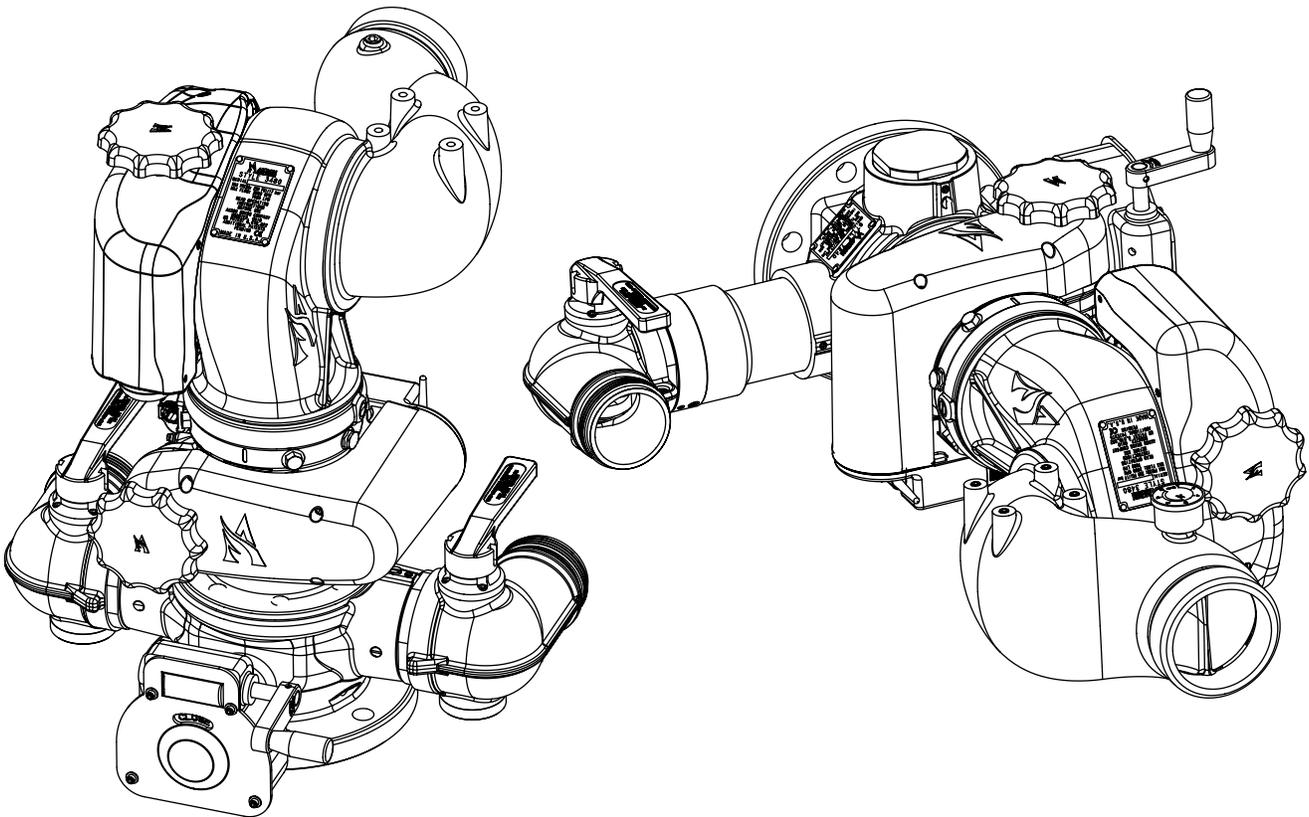




STYLE 3486 StreamMaster II with Integrated AERIAL VALVE MANIFOLD (AVM) INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

⚠ DANGER

The following is intended to provide the basic instructions for installation, operation and maintenance of the aerial valve manifold. For monitor operation, follow the instructions outlined in the appropriate manual. For Style 3486, follow the instructions for monitor operation contained in the Style 3480 operating manual. Read and understand these operating instructions before use.



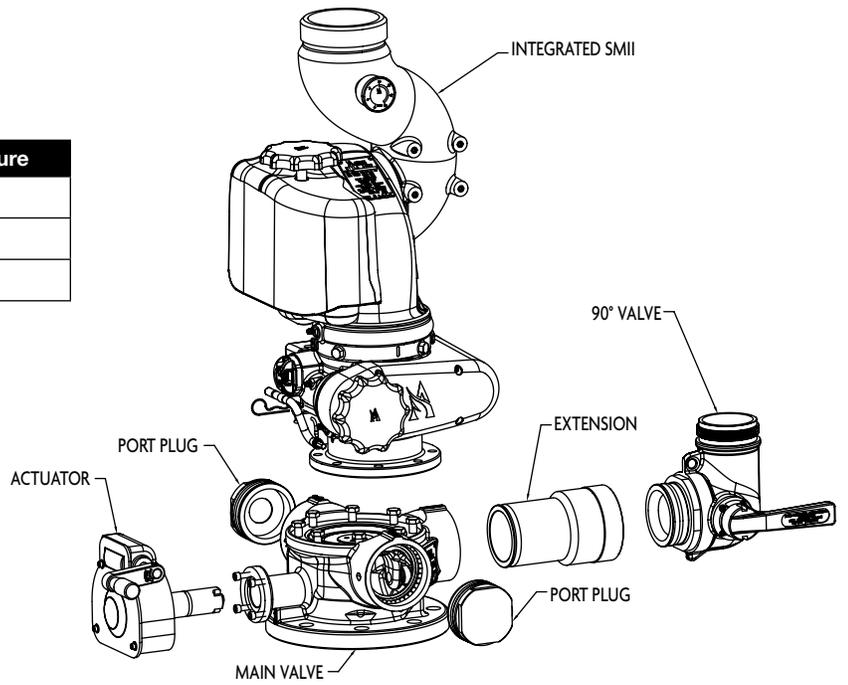
Product Ratings

Mechanical Specifications

Parameter	US Measure	Metric Measure
Maximum Flow Rate	2000 GPM	7600 LPM
Maximum Pressure	250 PSI	17 Bar
Operating Pressure	100 PSI	7 Bar

Mass

Component	US Measure	Metric Measure
Main Valve	10 lbs	4.5 kg
Actuator	4.5 lbs	2 kg
90° Valve	3.25 lbs	1.5 kg
Extension (5-1/4")	2.3 lbs	1 kg
Port Plug	.5 lbs	.2 kg
Integrated SMII	-2.4 lbs	-1.1 kg



The integrated StreamMaster II will subtract 2.4 lbs from the weight of the StreamMaster II.

Tools Required

- Wrench for flange mounting bolts

Safety Symbols

⚠ DANGER Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury

⚠ WARNING Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

NOTICE Address practices not related to personal injury

Product Warnings, Cautions and Notices

- ⚠ WARNING** Charge the unit slowly. Rapid charging may cause a pressure surge that has the potential to cause an injury, or damage the valve manifold.
- ⚠ WARNING** Aim the unit in a safe direction before pumping water through it, e.g., away from power lines.
- ⚠ WARNING** Do not exceed the maximum pressure or flow ratings of the aerial valve manifold. Exceeding these ratings may lead to an injury or may cause damage to the aerial valve manifold.
- ⚠ WARNING** Keep all personnel out of the Danger Zone, in front of the outlet of the monitor when the water source is attached. Dangerous flow velocities can cause serious injury.
- ⚠ WARNING** Not designed for explosive environments.
- ⚠ WARNING** Use only for firefighting by trained operators.
- ⚠ WARNING** Ensure the thread on the nozzle swivel matches the thread on the monitor outlet. Do not over-tighten the nozzle onto the unit.
- ⚠ WARNING** Insufficient structural support at the inlet flange can lead to failure, which has potential to cause an injury.
- ⚠ CAUTION** The aerial valve manifold contains moving parts. Keep hands, fingers and objects away from pinch points.
- ⚠ CAUTION** Closing a valve too quickly with water flowing can cause a water hammer which can damage equipment or cause injury.
- ⚠ CAUTION** Extending or retracting a telescoping pipe with the main valve closed will damage seals or equipment in the system or cause injury. Make sure a pressure relief valve and a vacuum relief valve are installed in the system.
- NOTICE** During freezing conditions, the valve must be drained to prevent damage.
- NOTICE** The valve, monitor, nozzle, control box, tether controller and field adjustable stops are made for optimal performance. Do not alter in any manner.
- NOTICE** Replace the identification tags if they should become worn or damaged.
- NOTICE** Designed for use in fresh water applications. After use with salt water, flush with fresh water.
- NOTICE** For use with water or standard firefighting foams only. After use with foam, flush with fresh water.
- NOTICE** Not recommended to mount onto a raised face flange. This may cause damage to the AVM flange when tightening bolts.
- NOTICE** Use fittings of the same material as the valve manifold to eliminate the effects of galvanic corrosion.

FIGURE: 1a – Operating Window - Typical Ladder Configuration

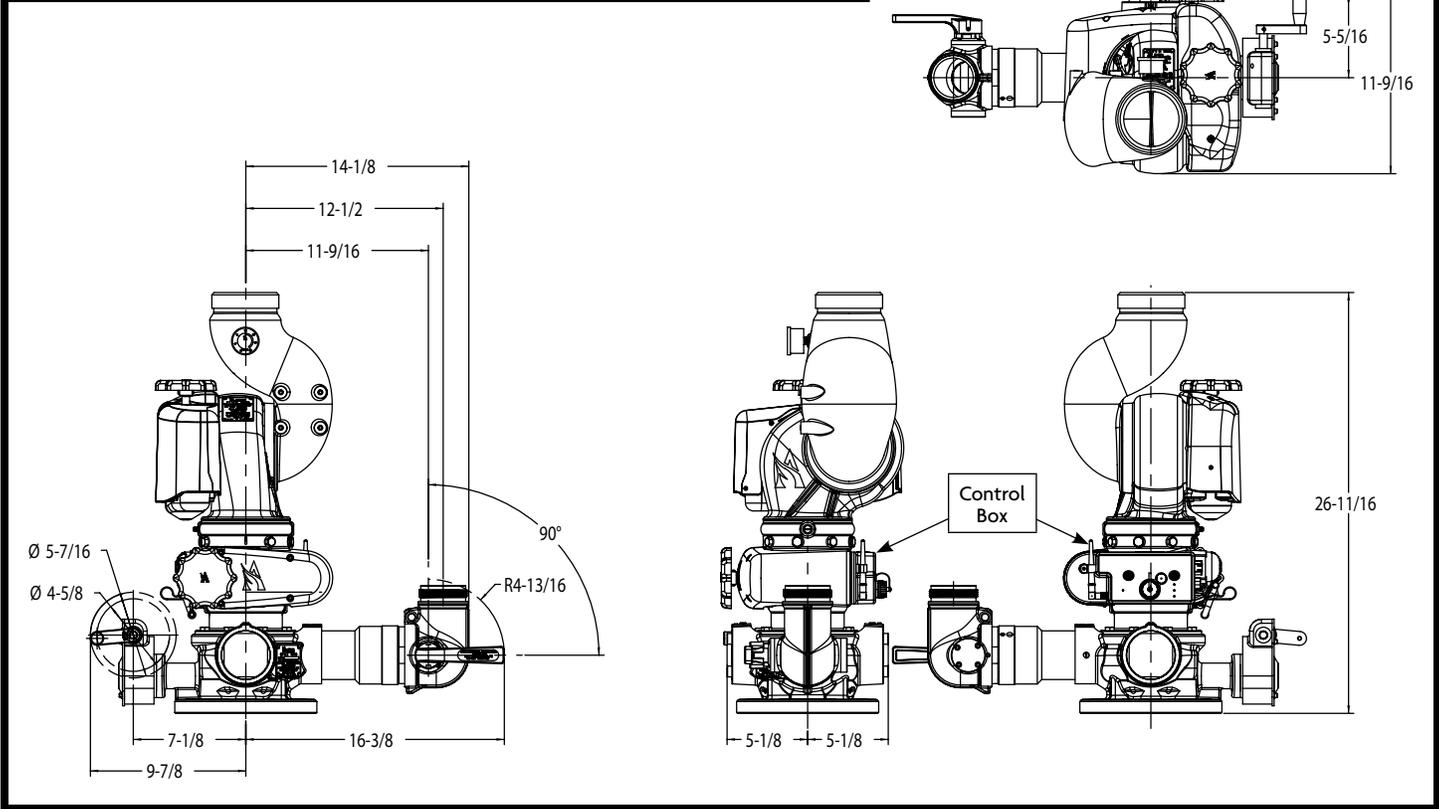
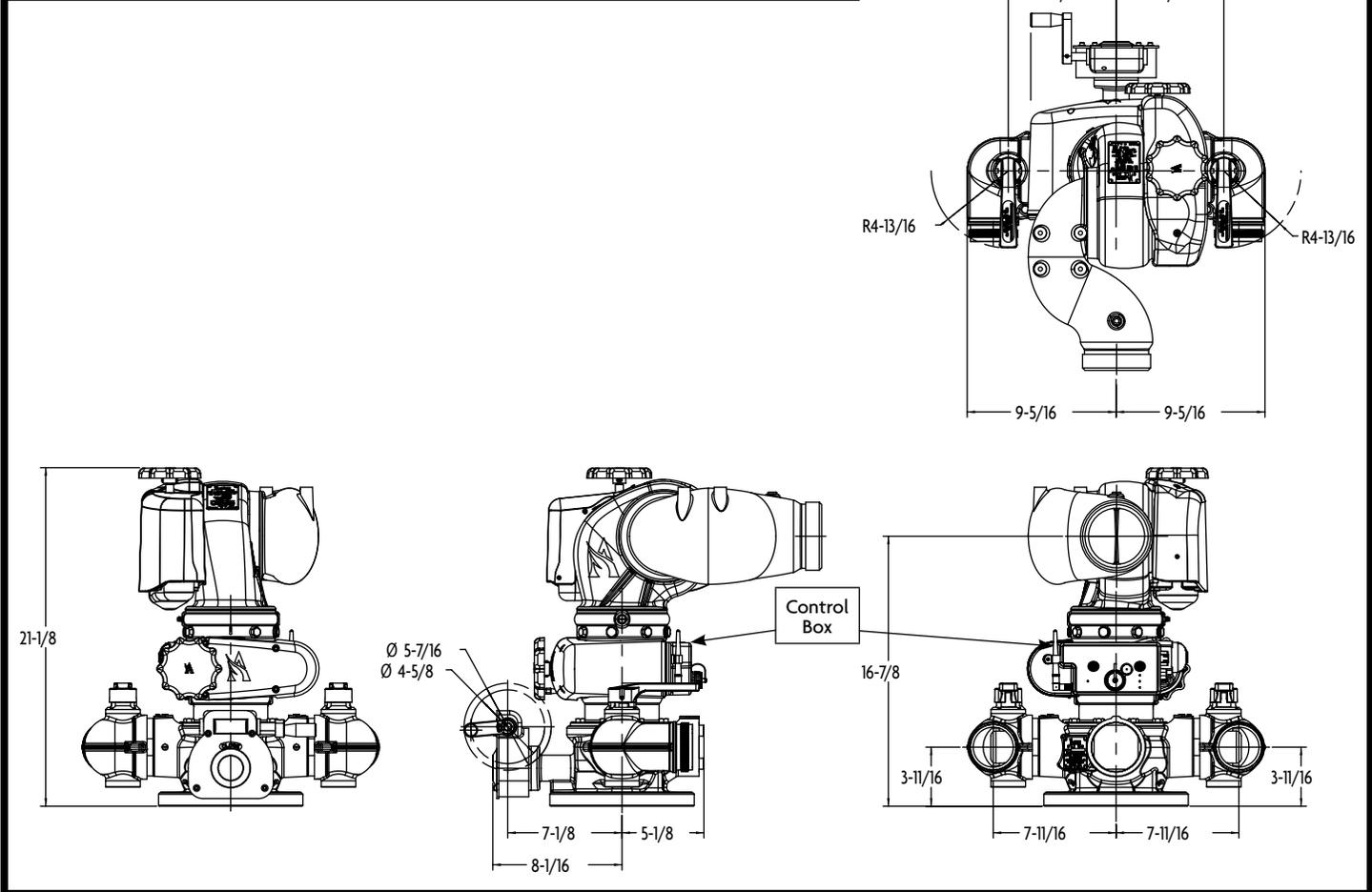


FIGURE: 1b – Operating Window - Typical Platform Configuration



Mechanical AVM Attachment

The AVM is to be mounted on a waterway which is capable of withstanding the pressure applied to the monitor as well as the reaction force and resulting bending moment of the nozzle (1700 lbs at 250 PSI and 2000 GPM).

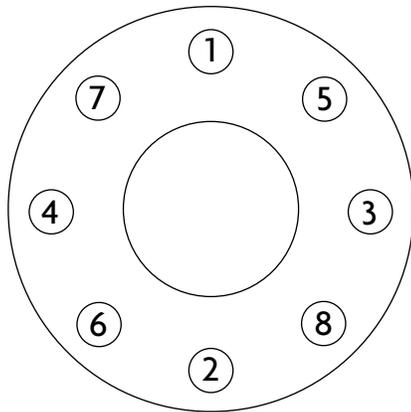
⚠ WARNING Insufficient structural support at the inlet flange can lead to failure, which has potential to cause an injury. Contact Akron Brass Customer Service for assistance.

Use 5/8" bolts and nuts of grade five minimum. Use suitable washers with a minimum of six thread engagements. Use a ring gasket conforming to ASME 16.21. The electronic control box on the StreamMaster II is considered the front of the monitor. Use Figure 1 to position the monitor to function within the desired operating window.

Bolt Tightening Procedure

Start the tightening procedure by lubricating the nuts and bolts. Hand tighten the nuts until they are snug against the flange.

FIGURE: 2 – Bolt Torque Order



The final torque of the bolts should be 85–90 ft-lbs. Following the correct sequential order, tighten the bolts to 30% of the final torque. Repeat the tightening sequence to 60% of the final torque. Repeat a third time to 100% of the final torque. Finally, repeat the sequence at the final torque.

NOTICE Not recommended to mount onto a raised face flange. This may cause damage to the AVM flange when tightening bolts.

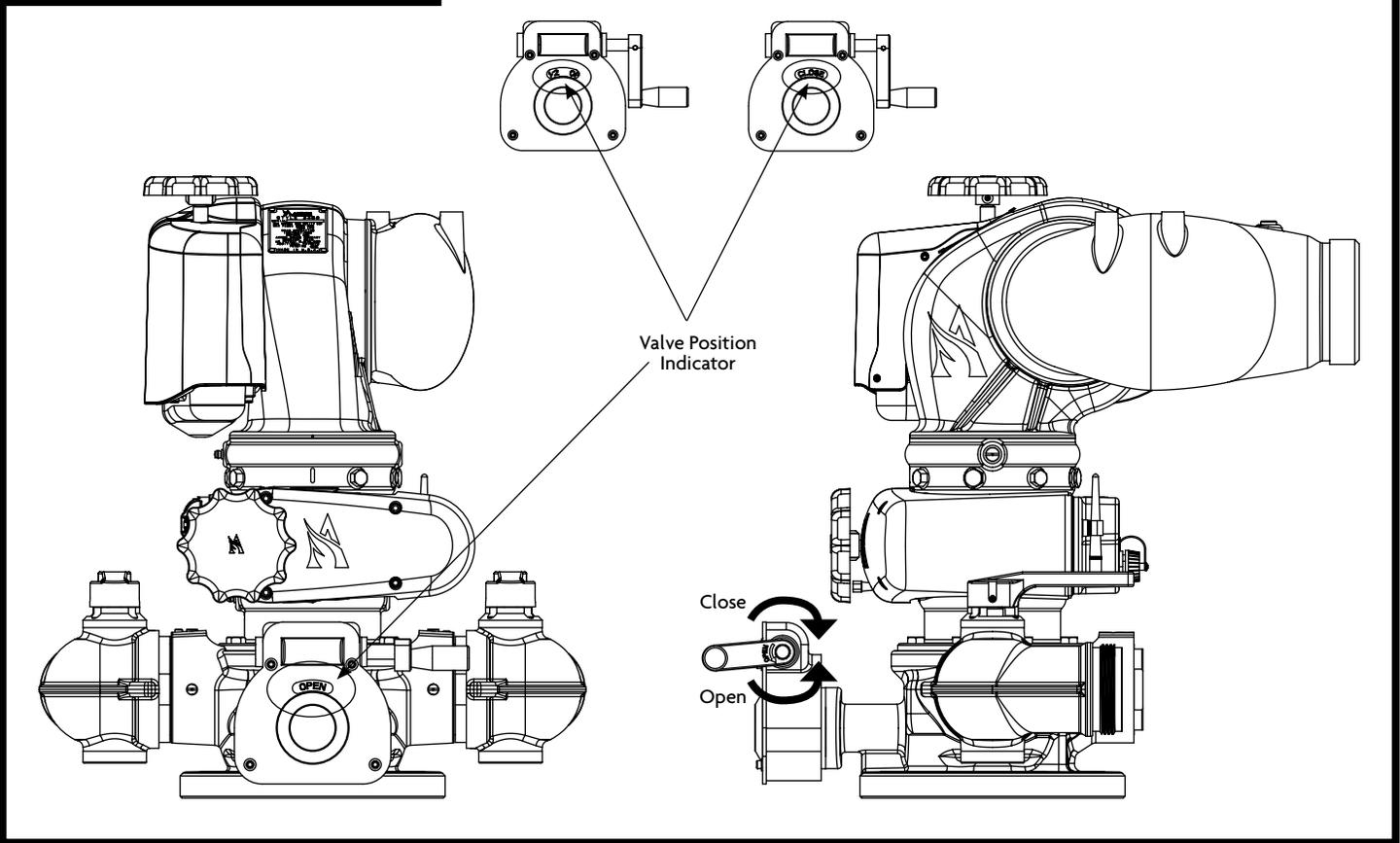
Operation of Main Valve

The crank handle will shut off the water to the monitor. Turning the crank clockwise will stop water flowing through the monitor. Turning the crank counterclockwise will start flowing water to the monitor. It is possible to flow water to the monitor and through the auxiliary valves at the same time. It is also possible to flow water through the auxiliary valves while the main valve is closed. The valve position indicator on the side of the actuator will move as the crank is turned, indicating whether the main valve is opened or closed.

⚠ CAUTION Closing a valve too quickly with water flowing can cause a water hammer which can damage equipment or cause injury.

⚠ CAUTION Extending or retracting a telescoping pipe with the main valve closed will damage seals or equipment in the system or cause injury. Make sure a pressure relief valve and a vacuum relief valve are installed in the system.

Figure 3 – Main Crank Operation



Maintenance Instructions

- The aerial valve manifold should be kept clean and free from dirt.
- Inspect for damaged components or wiring and repair or replace as needed.
- The valve actuator should move freely and smoothly without hesitating.
- Inspect valve for leaks. Replace seals as needed. Use Parker O-Ring lubricant on O-Rings.
- Grease fittings are installed at worm gear and ball bearing joints. If motor is laboring or movement of the joint is not smooth, grease until normal operation is restored. Do not over-apply grease using a grease gun. Pressure will build in the monitor cavity and could cause damage to the monitor. The elevation joint bearings do not require grease.
- Refer to Style 3480 operating and maintenance instructions for monitor maintenance.



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