The following is intended to provide the basic instructions for installation, operation and maintenance. Read and understand these operating instructions before use.
### Mechanical Specifications 3-1/2” Outlet

<table>
<thead>
<tr>
<th>Parameter</th>
<th>US Measure</th>
<th>Metric Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>2000 GPM</td>
<td>7600 LPM</td>
</tr>
<tr>
<td>Max Operating Pressure</td>
<td>250 PSI</td>
<td>17 Bar</td>
</tr>
<tr>
<td>Mass</td>
<td>33.3 Lbs</td>
<td>15.1 kg</td>
</tr>
</tbody>
</table>

### Mechanical Specifications 2-1/2” Outlet

<table>
<thead>
<tr>
<th>Parameter</th>
<th>US Measure</th>
<th>Metric Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>1500 GPM</td>
<td>5700 LPM</td>
</tr>
<tr>
<td>Max Operating Pressure</td>
<td>250 PSI</td>
<td>17 Bar</td>
</tr>
<tr>
<td>Mass</td>
<td>31 Lbs</td>
<td>14.1 kg</td>
</tr>
</tbody>
</table>

### 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 monitor.
- **WARNING**: Do not exceed the maximum pressure or flow ratings of the monitor. Exceeding these ratings may lead to an injury or may cause damage to the monitor.
- **WARNING**: Do not install shutoffs on the outlet of the monitor. Shutoffs increase the potential for pressure surges due to water hammer, which have the potential to cause an injury or damage the monitor.
- **WARNING**: Disconnect power and disable flow before maintenance.
- **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.
- **WARNING**: Do not use monitor or nozzle as a forcible entry tool.
**CAUTION** Ensure that the monitor is returned to the Stow position after use.

**CAUTION** During freezing conditions, the monitor must be drained to prevent damage.

**NOTICE** The monitor, nozzle, and field adjustable stops are made for optimal performance. Do not alter in any manner.

**NOTICE** The monitor was designed for use with Akron nozzles. Use of any other nozzles could affect the speed or operation of the unit and should be tested before being put into service.

**NOTICE** Replace the identification tags if they should become worn or damaged.

**NOTICE** The monitor uses current limiting for both the monitor and nozzle. Use only appropriate Akron Brass Company nozzles.

**NOTICE** Not recommended for use in salt water applications.

**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 flange. This may cause damage to the monitor’s flange when tightening bolts.

**NOTICE** Use a nozzle of the same material as the monitor to eliminate the effects of galvanic corrosion.
Installation

**Figure 1 – Operating Window**

The monitor 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.

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 rotation hand wheel is considered the back 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.

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 again.

**NOTICE** Not recommended to mount onto a raised face flange. This may cause damage to the monitor’s flange when tightening bolts.
Rotational Stops
The StreamMaster II™ has 355° of total rotation. Stops can be inserted to limit travel to the left or to the right according to figure 3. Factory default stops are set at 90° to the right and left. The permanent stop must not be removed. The stops and plugs have a ½” hex head. If a hole does not have a stop, it should have a plug.

**CAUTION** Operating the monitor without the permanent travel limit stops in place could cause damage to the monitor and could potentially injure the operator.

Figure 3 – Rotational Stops

NOTE: +/- 22.5° OPERATION REQUIRES SPECIAL INTERNAL COMPONENT IN ADDITION TO STOPS INSTALLED IN THE +/- 45° LOCATIONS.
Elevation Stops
The StreamMaster II™ has 90° of travel above horizontal and 45° below horizontal, which is limited by the permanent stop. These stops should not be removed. Stops can be inserted to limit travel above and below horizontal according to figure 4. Factory default stops are set at 45° above horizontal and 45° below horizontal. The stops and plugs have a 5/8" hex head. If a hole does not have a stop, it should have a plug.

⚠️ CAUTION ⚠️ Operating the monitor without the permanent travel limit stops in place could cause damage to the monitor and could potentially injure the operator.

**Figure 4 – Elevation Stops**

Nozzle Installation
The nozzle should be threaded onto the outlet of the monitor. Verify that the actuator orientation does not interfere with the monitor.

⚠️ WARNING ⚠️ Ensure the thread on the nozzle swivel matches the thread on the monitor outlet. Do not over-tighten the nozzle onto the unit.

⚠️ NOTICE ⚠️ Use a nozzle of the same material as the monitor to eliminate the effects of galvanic corrosion.
Maintenance Instructions

- The monitor should be kept clean and free from dirt.
- Inspect for damaged components and repair or replace as needed.
- The monitor should move freely and smoothly without hesitating.
- Inspect monitor 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 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.