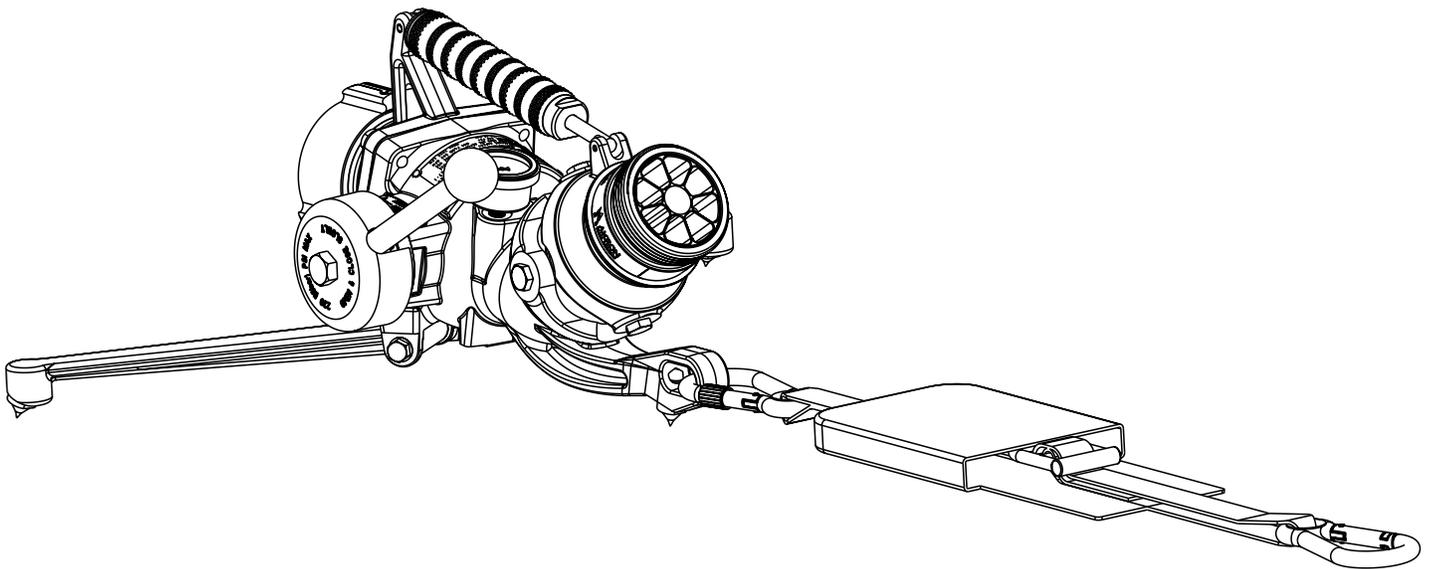




STYLE 3444 MERCURY™ QUICK ATTACK LE PORTABLE MONITOR INSTALLATION, OPERATING, & MAINTENANCE INSTRUCTIONS

The following is intended to provide the basic instructions for installation, operation, and maintenance. Read and understand these operating instructions before use.



⚠ WARNING Read and follow the operating instructions before use.

⚠ WARNING For firefighting use only.

Product Ratings

Mechanical Specifications:

Parameter	US Measure	Metric Measure
Maximum Flow Rate	500 GPM	2000 LPM
Maximum Pressure	230 PSI	16 Bar
Mass	15.5 Lbs.	7 kg

Product Warnings

- | | |
|------------------|--|
| ⚠ 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 | • Addresses practices not related to personal injury. |

⚠ CAUTION • Do not exceed the maximum pressure or flow rating of the monitor

⚠ CAUTION • Make sure both legs are fully deployed, all three spikes are in contact with the ground and safety strap is secure before use.

⚠ CAUTION • Charge the unit slowly. Rapid charging may cause a pressure surge with the potential to cause injury or damage to the unit.

⚠ CAUTION • Make sure the monitor is pointed in a safe direction before flowing water.

⚠ CAUTION • The Mercury is supplied with a 2-1/2" ball valve. Open and close the valve slowly. Opening and closing the valve too quickly may result in damage to other equipment which can result in injury to the operator or others.

⚠ CAUTION • Make sure the valve is closed when advancing the monitor. Do not move or lift the monitor while flowing.

⚠ CAUTION • Read and follow the tip pressure and flows in the operating instructions before use.

⚠ CAUTION • Inspect the ball valve for correct operation after each use.

⚠ CAUTION • Inspect the rotation and elevation range after each use for proper movement.

⚠ CAUTION • During freezing conditions the monitor must be drained to prevent damage.

⚠ CAUTION • Do not use larger than a 3" hose.

⚠ CAUTION • Replace any tags on the monitor that have become worn or damaged.

⚠ CAUTION • Do not apply any lubrication to the rotation/elevation outlet ball.

General Instructions

The Mercury monitor has a carrying handle for easy handling and a 2-1/2" Ball valve for advancing or extending a line (Figure 2). The inlet and outlet have 2-1/2" threads and the spikes are made of carbide for better wear resistance. The safety strap can be used as a carrying strap by shortening the strap to its smallest length and attaching the hook into the hole at the back of the handle.

The monitor is supplied with three carbide tipped spikes that imbed into the surface on which it is operating. These spikes will not grip on metal, marble or similar hard surfaces. Do not operate on these surfaces without securing the unit with the safety strap (Figure 6).

Operating Instructions

A. Setup

To deploy the Mercury monitor, remove the unit from the mounting bracket, hose bed or storage compartment and advance the monitor and line to a safe operating position. Fully deploy both legs by rotating both legs down and back into the fully deployed position (Figure 3). Set the monitor down with all three spikes in contact with the ground.

B. Safety Strap

An adjustable safety strap with hook is mounted on the front leg of the monitor. Adjust the strap by pulling the strap through the D-ring to the required length. Connect the hook to a ground spike (AB part # 34430084) or rigid object that is located in front of the legs. Pull the safety strap taut or wrap the strap taut around a fixed object in front of the legs and secure the hook to the strap. **DO NOT OPERATE THE UNIT WITHOUT THE SAFETY STRAP SECURED.** The monitor can generate reaction forces over 250 lbs. Make sure the object the safety strap is secured too can withstand these forces.

C. Valve

With the valve closed, charge the line and then slowly open the valve to avoid any damage. The monitor has an indicator that directs the open and closed position of the handle. To open the valve, pull the handle back and to close the valve, push the handle forward (Figure 1).

D. Rotation and Elevation

The monitor can be used manned or unmanned at the specified angles (Figure 1). The rotation range is $\pm 20^\circ$. The elevation range is from 50° to 30° unmanned and from 30° to 10° manned. To lower the outlet below the 30° elevation range while manned, simply push down on the outlet to the desired elevation. The carrying handle has a spring loaded elevation arm that returns the outlet to 30° if the operator releases his grip on the outlet or the monitor is unmanned.

E. Flow and Pressure

When using with a fog nozzle do not exceed the maximum rated flow of 500gpm (2000 lpm). When used with smooth bore tips, do not exceed the following discharge pressures.

Tip Size (mm)	PSI	Kpa	GPM
1 1/2" (38 mm)	55	380	500
1 3/8" (35 mm)	80	550	500
1 1/4" (32 mm)	100	690	464
1 1/8" (28 mm)	120	830	412
1" (25 mm)	150	1035	364

When finished, drain all water from the line, close the valve, fold the legs and secure the monitor in the mounting bracket, hose bed or storage compartment.

F. Mounting Bracket

An optional mounting bracket is available for storing the monitor. The mounting bracket will accommodate a monitor with all accessories available from Akron Brass Company. Figure 4 shows the bracket dimensions for mounting to any horizontal or vertical surface. Figure 5 shows a general horizontal and vertical storage orientation. The mounting bracket should not be secured such that the monitor will hang upside down. **DO NOT FLOW THE MONITOR WHEN SECURED IN THE MOUNTING BRACKET. ONLY FLOW THE MONITOR AS OUTLINED IN THE PREVIOUS INSTRUCTIONS.**

FOR USE WITH CAFS

- For optimal CAFS Bubble Structure place the nozzle pattern in straight stream and turn the flow control ring to FLUSH.

NOTE: Changing the flow control ring without adjusting the pressure will affect your actual flow rate i.e, if you change to a higher flow setting, your inlet pressure will decrease and your flow will be less than shown on the flow control ring. If you change to a lower flow setting, your inlet pressure will increase and your flow will be more than shown on the flow control ring. Changing the flow changes the reaction force. Pump curves, hose size and length, elevation, etc., will affect actual results.

Maintenance Instructions

- After use, flush the monitor with clean water to clean grit, dirt or foam from around exterior moving parts. Doing so will allow the monitor to operate as designed.
- Examine the points of the spikes on all three legs. If the flat of any spike exceeds 1/16" (1,5mm) diameter, it must be replaced. The spikes are assembled with a thread locking agent. When replacing the spikes use a thread locking agent such as Loctite #222, Permabond LM 113 or equivalent.
- The shut off valve may need to be serviced with a new ball and seat if the valve becomes difficult to operate. Contact Customer Service for a replacement kit if required.
- If the spring loaded elevation mechanism becomes difficult to operate clean internal components with rubbing alcohol. Do NOT use any type of lubrication. This will have an adverse effect on the operation of the elevation mechanism.

FIGURE 1

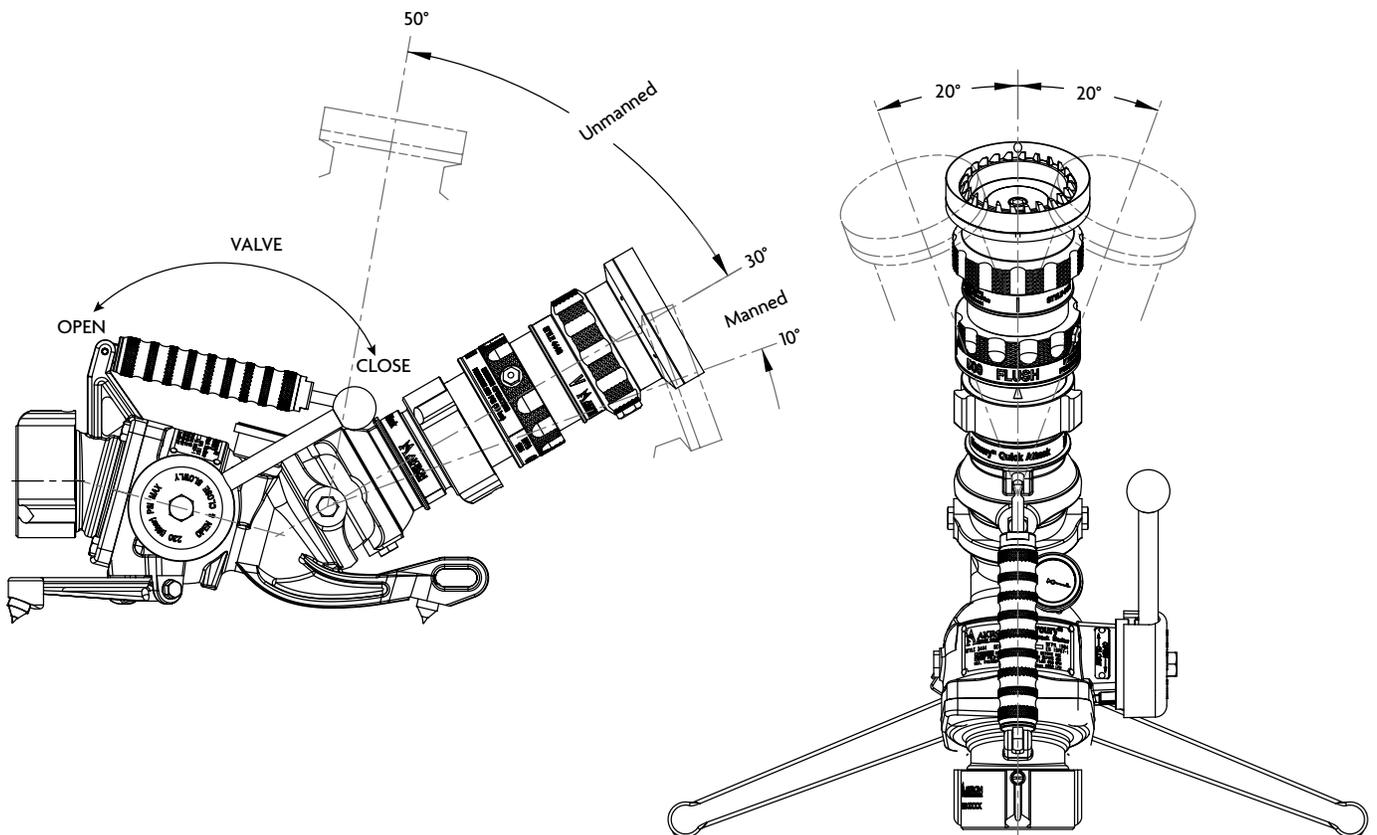


FIGURE 2

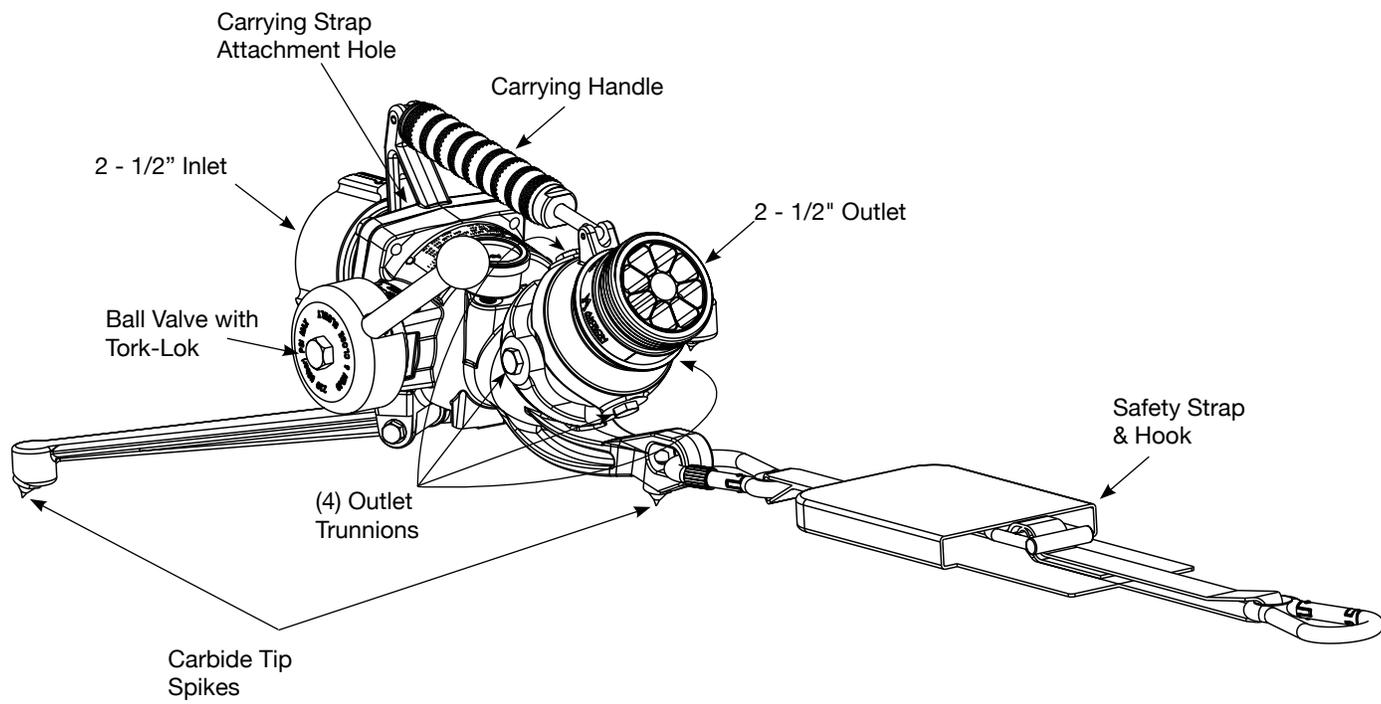


FIGURE 3

DIMENSIONAL LAYOUT

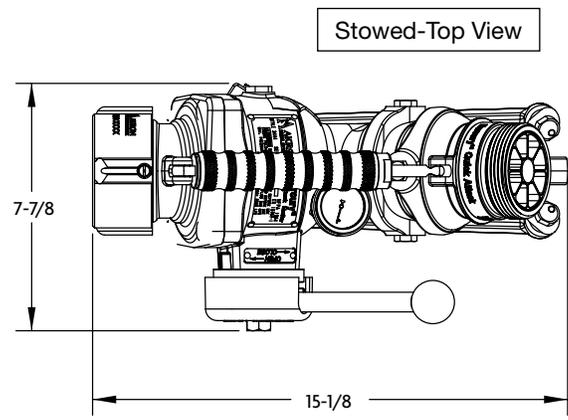
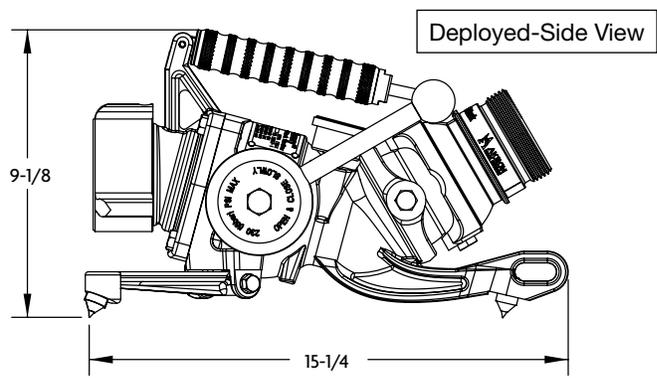
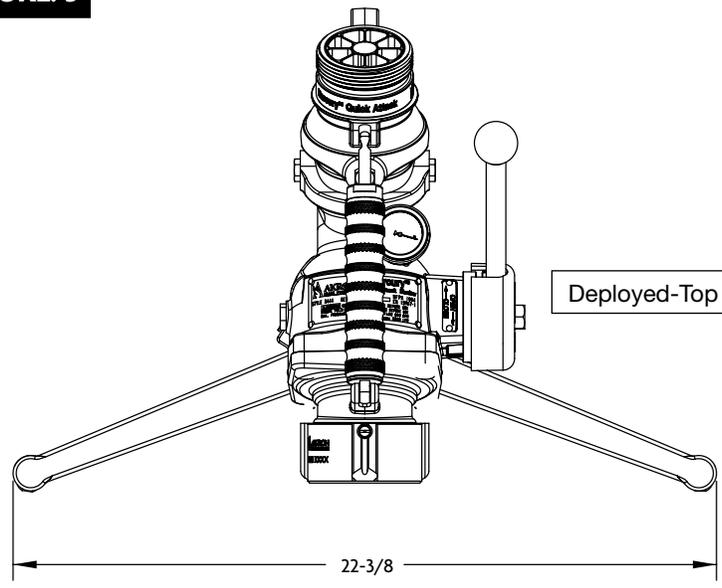


FIGURE: 4

BRACKET DIMENSIONS

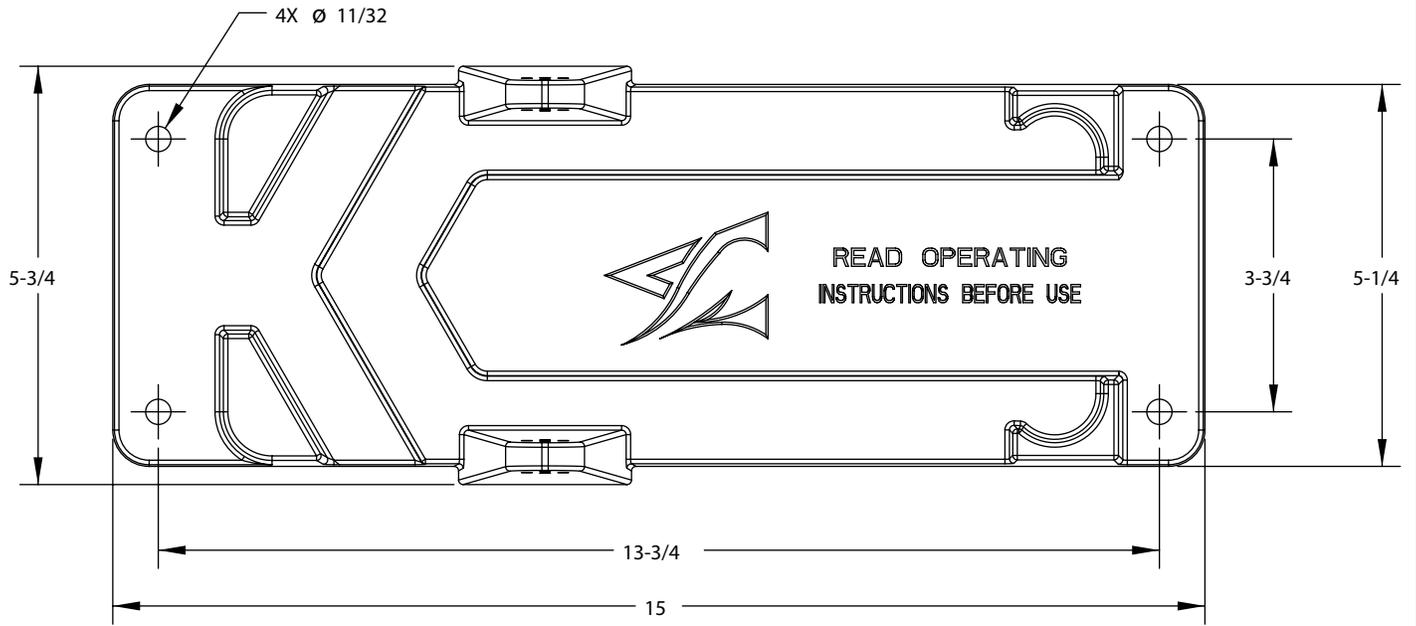
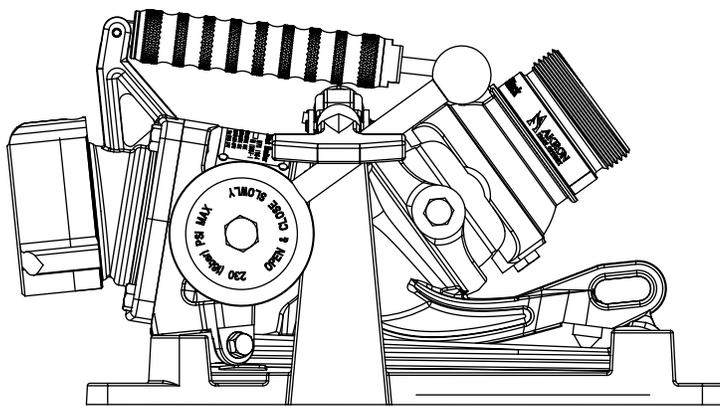
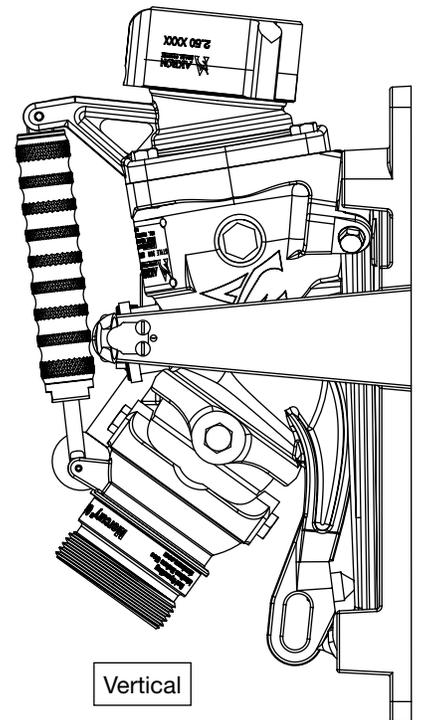


FIGURE: 5

STORAGE ORIENTATIONS

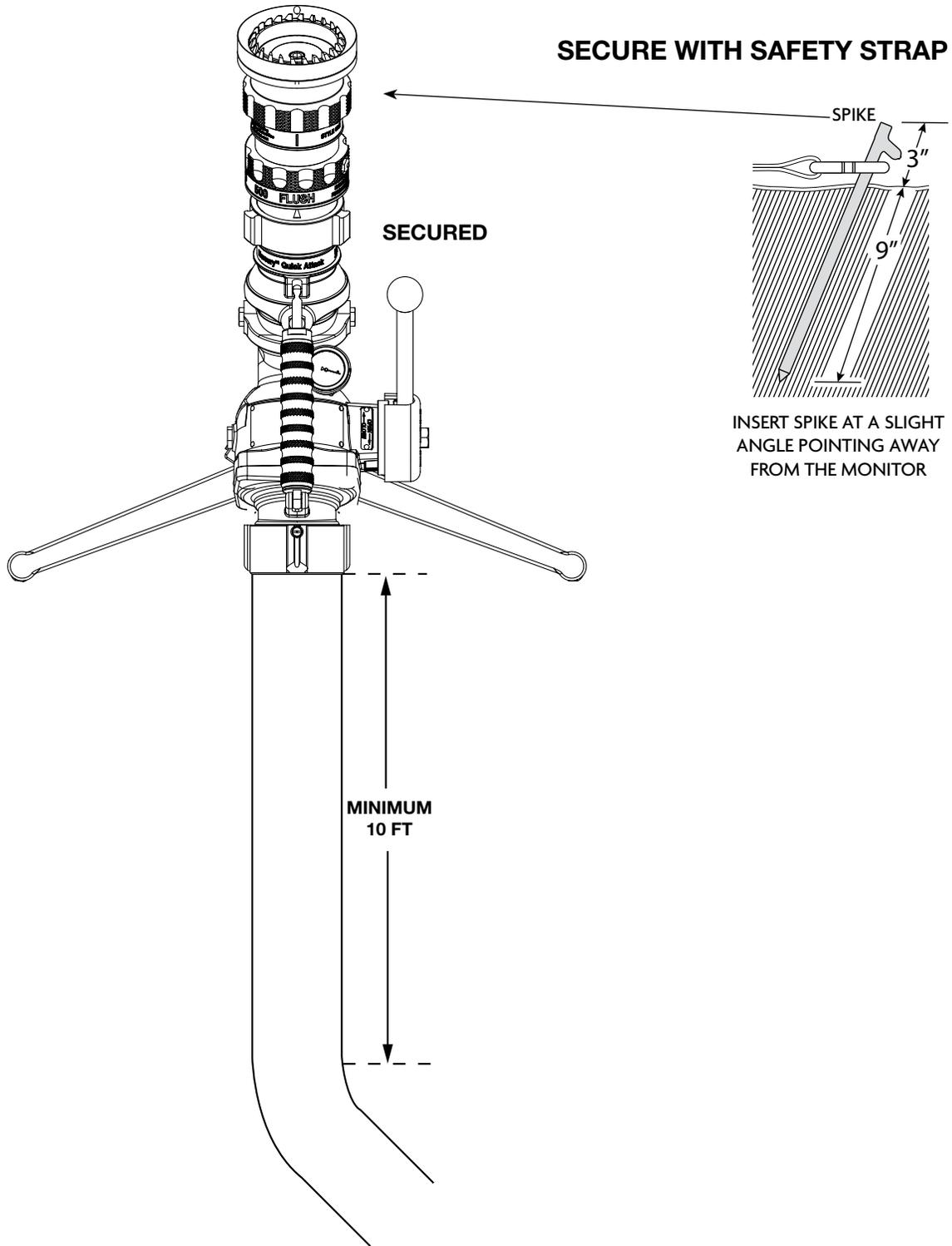


Horizontal



Vertical

FIGURE: 6



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