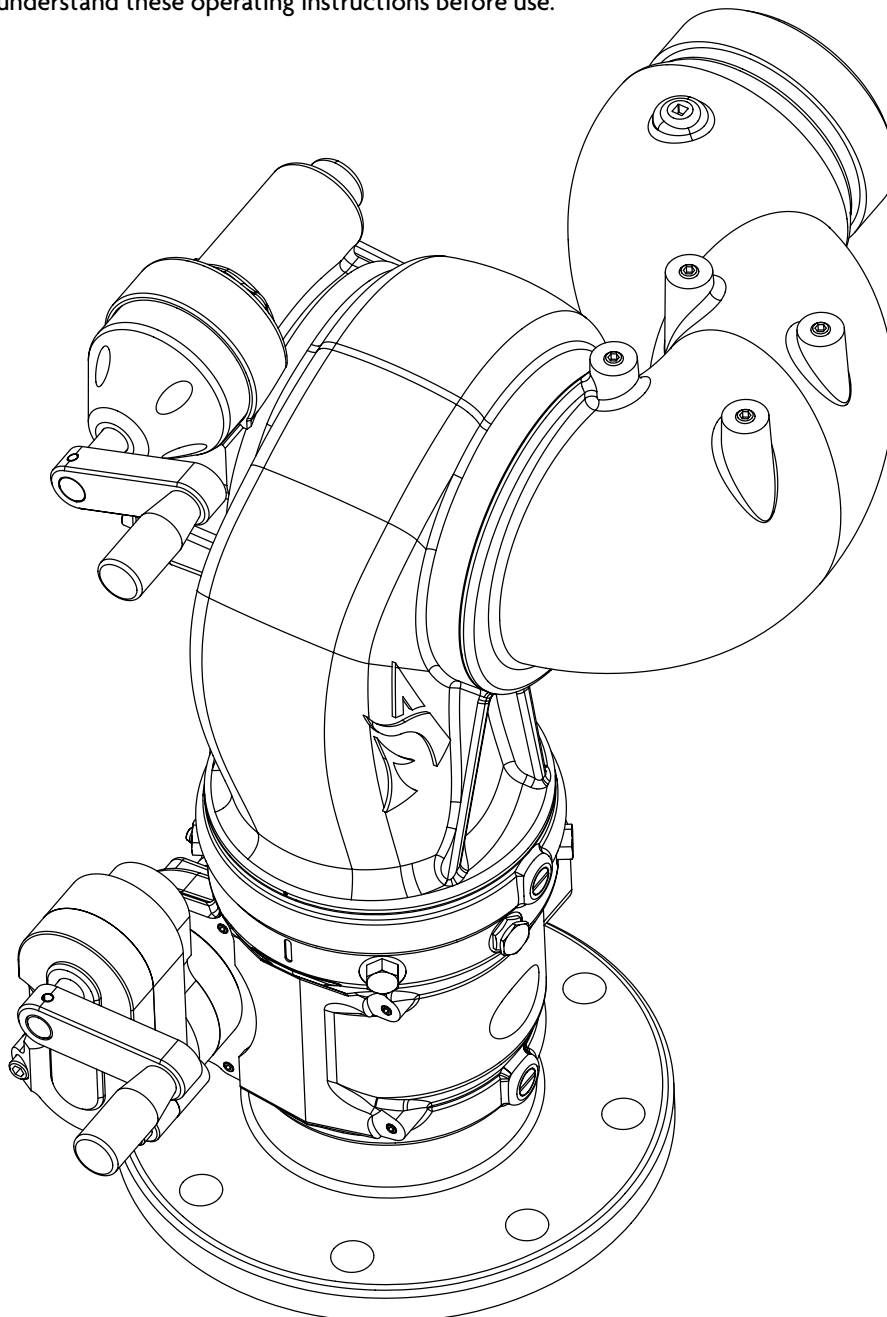




STYLE 3481 STREAMMASTER II™ HANDWHEEL MONITOR INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

⚠ DANGER 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

Parameter	US Measure	Metric Measure
Flow Rate	2000 GPM	7600 LPM
Max Operating Pressure	250 PSI	17 Bar
Mass	33.3 Lbs	15.1 kg

Mechanical Specifications 2-1/2" Outlet

Parameter	US Measure	Metric Measure
Flow Rate	1500 GPM	5700 LPM
Max Operating Pressure	250 PSI	17 Bar
Mass	31 Lbs	14.1 kg

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.

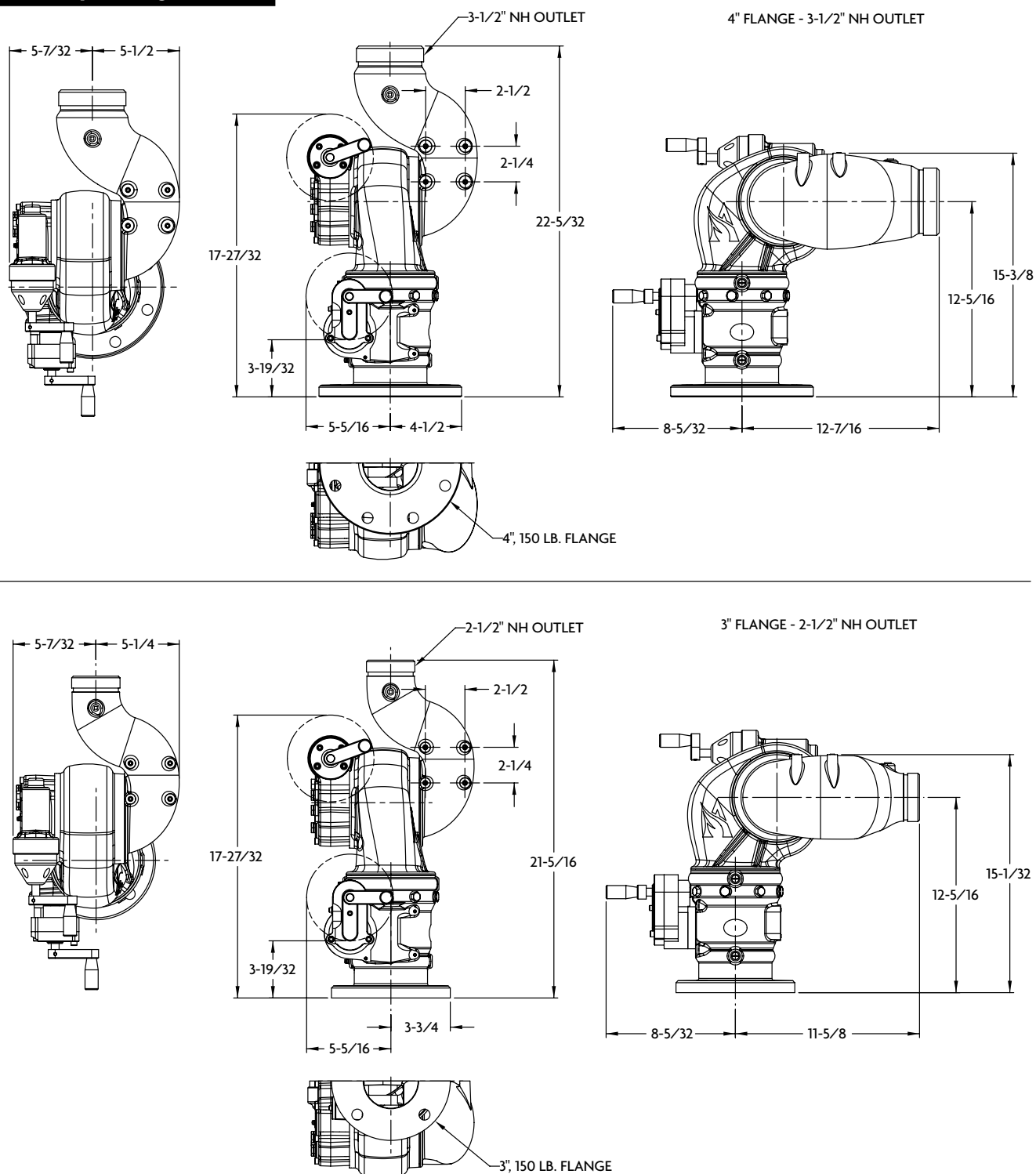
NOTICE Not recommended for use in salt water applications.

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.

Figure 1 – Operating Window



Mechanical Monitor Attachment

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).

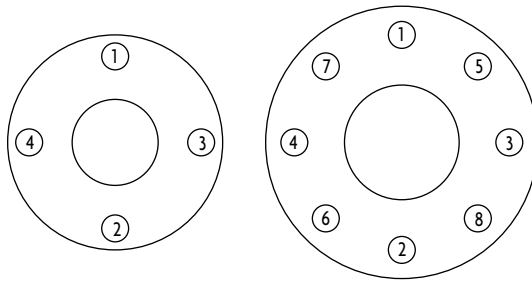
⚠ WARNING Insufficient structural support at the inlet flange can lead to failure, which has potential to cause an injury.

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.

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 again.

NOTICE

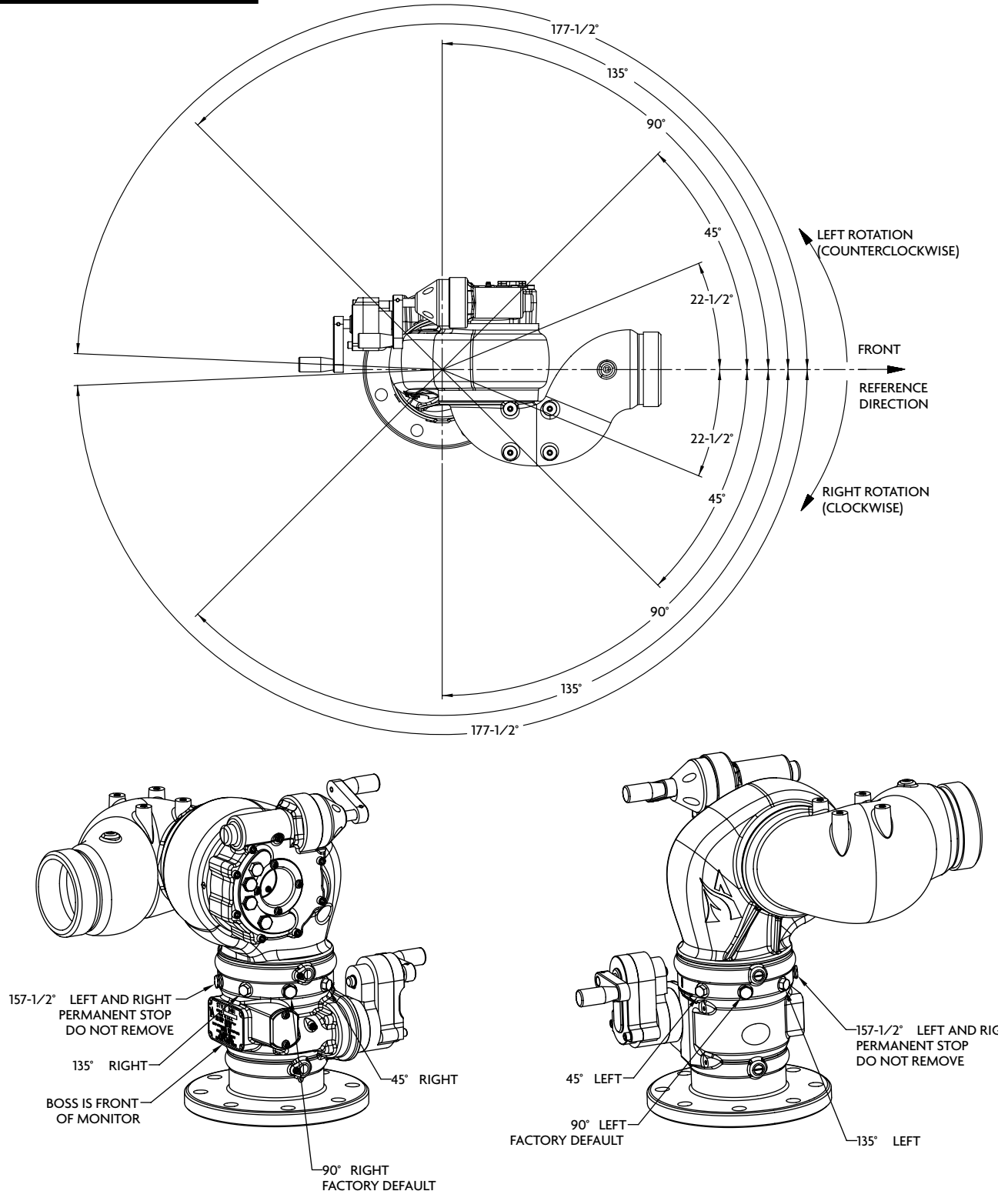
Not recommended to mount onto a raised face flange. This may cause damage to the monitor's flange when tightening bolts.

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

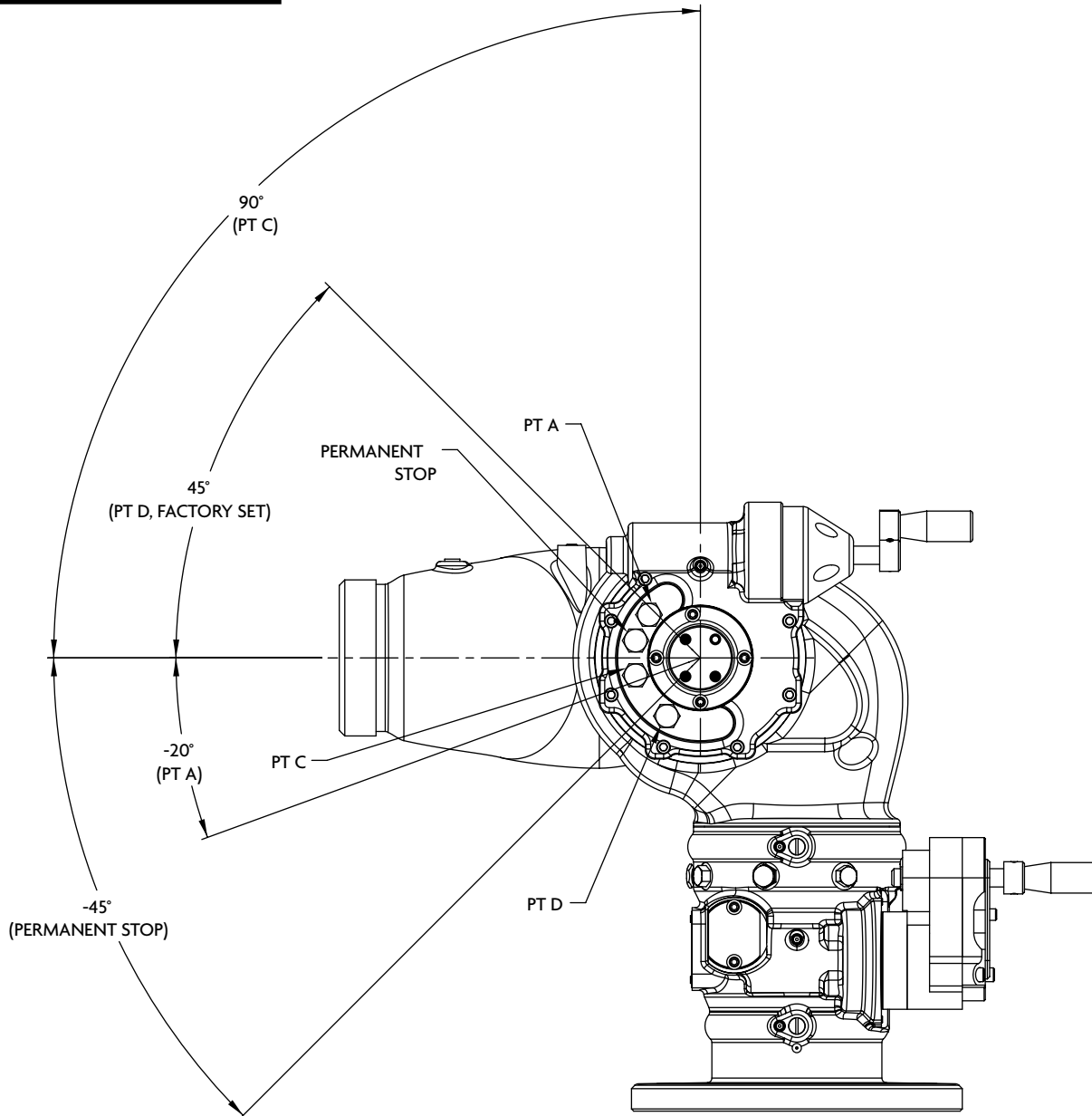


Elevation Stops

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.



PHONE: 330.264.5678 or 800.228.1161 | FAX: 330.264.2944 or 800.531.7335 | akronbrass.com

REVISED: 5/18

WARRANTY AND DISCLAIMER: We warrant Akron Brass products for a period of five (5) years after purchase against defects in materials or workmanship. Akron Brass will repair or replace product which fails to satisfy this warranty. Repair or replacement shall be at the discretion of Akron Brass. Products must be promptly returned to Akron Brass for warranty service.

We will not be responsible for: wear and tear; any improper installation, use, maintenance or storage; negligence of the owner or user; repair or modification after delivery; damage; failure to follow our instructions or recommendations; or anything else beyond our control. WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, OTHER THAN THOSE INCLUDED IN THIS WARRANTY STATEMENT, AND WE DISCLAIM ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Further, we will not be responsible for any consequential, incidental or indirect damages (including, but not limited to, any loss of profits) from any cause whatsoever. No person has authority to change this warranty.

© Akron Brass Company. 2018 All rights reserved. No portion of this can be reproduced without the express written consent of Akron Brass Company.