STYLE 3358 HANDWHEEL TRIDENT HFRT-10 Monitor
OPERATING INSTRUCTIONS

INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTION:

The following is intended to provide the basic instructions for installation, operation and maintenance of the Trident HFRT-10 and assist in attaining the best possible performance from the unit. Read and understand these operating instructions before use.

PRODUCT RATINGS
Mass: 70lbs. (31.75 kg) (less nozzle)
Maximum Flow: 2650 gpm (10000 lpm) maximum @ 150 psi (10 bar) maximum
2000 gpm (7600 lpm) maximum @ 250 psi (17 bar) maximum

PRODUCT WARNINGS:
⚠️ WARNING: Charge the unit slowly. Rapid charging may cause a pressure surge that has the potential to cause an injury, or damage to the turret.
⚠️ WARNING: Aim the unit in a safe direction before pumping water through it. (i.e. Away from power lines)
⚠️ WARNING: Use only appropriate Akron Brass Company nozzles.
⚠️ WARNING: Replace the identification tags if they should become worn or damaged.
⚠️ WARNING: DO NOT exceed the maximum pressure or flow ratings of the turret. Exceeding these ratings may lead to an injury or may cause damage to the turret.
⚠️ WARNING: DO NOT install shutoffs on the outlet of the turret. Shutoffs increase the potential for pressure surges due to water hammer, which have the potential to cause an injury or damage to the turret.
⚠️ WARNING: The Trident HFRT-10, nozzle, and field adjustable stops are made for optimal performance. Do not alter in any manner.
⚠️ WARNING: The Trident HFRT-10 was designed for use with specific Akron Brass nozzles. Use of any other nozzles could affect the speed or operation of the unit and should be tested before being put into service.
⚠️ WARNING: The Trident HFRT-10 contains moving parts. Keep hands, fingers and objects away from pinch points.
⚠️ WARNING: Disable flow before maintenance.
⚠️ WARNING: Keep all personnel out of the Danger Zone in front of the outlet of the nozzle when the water source is attached. Dangerous flow velocities can cause serious injury.
⚠️ WARNING: Not designed for explosive environments.
GENERAL INSTRUCTIONS

- Review the instructions, component layout and rotational stops diagram before installing this unit.
  - The turret does not act as a ground.
- Not recommended for use in salt water applications.
- For firefighting by trained firefighters only.
- For use with water or standard fire fighting foams only. After use with foam, flush with fresh water.
- Do not use the nozzle as a forcible entry tool.
- Drain the Trident after use to prevent “freeze damage”.
- Ensure that the thread in the nozzle swivel, if applicable, matches the thread on the monitor outlet. Do not over tighten the nozzle onto the monitor.
- Do not install the Flanged Inlet version of the Trident Directly on a Butterfly Valve. The Butterfly Valve disc will not clear the vane in the Trident Waterway.

MECHANICAL MONITOR ATTACHMENT

The Trident is to be mounted on either a 4"150# Inlet Flange or the optional Rear Inlet Elbow with eight 5/8 inch bolts and nuts used on the 150# inlet flange and four 5/8 inch bolts and nuts used on the optional inlet elbow, all are of grade five minimum with suitable washers and a minimum of six threads engagement. The bolts must be tightened in a criss cross pattern progressively increasing tightening torque to a maximum of 100 foot pound dry. The optional Rear Inlet Elbow has three versions available, a 4" 150# flange inlet, 4" Victaulic inlet, and 5" Victaulic inlet.

The angles for the hard rotational stops are with respect to the “reference direction” illustrated in fig.2. The turret is shipped with the stop points 2, and 5 on rotation which stop the monitor at 135° right, clockwise and at 135° left, counterclockwise. All other positions are achieved by switching the factory set stops and plugs in the desired stop location, the horizontal rotation can move up to 380°. Both the stops and plugs have a 5/8 inch hex head. Refer to fig.3 to determine which stop location is needed for the desired right, clockwise or left, counterclockwise rotation. The elevation stop sets the upper and lower limits of the elevation. The monitor is shipped with the upper limit at 70° above horizontal and the lower limit at -30° below horizontal. All other vertical positions are achieved by switching plugs and stops to the desired locations as indicated in fig.1.
Elevation Travel Fig.1.

135° left, counter clockwise
Reference (Front) permanent stop (do not remove)

Rotation Travel Fig.2.

PT. 2 - FOR 270° ROTATION
135° left, counter clockwise

PT. 1
Reference (Front) permanent stop (do not remove)

PT. 5 - FOR 270° ROTATION
135° right, clockwise

View looking down from top of monitor

<table>
<thead>
<tr>
<th>Rotation limit</th>
<th>Pt.1</th>
<th>Pt.2</th>
<th>Pt.3</th>
<th>Pt.4</th>
<th>Pt.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>270°</td>
<td>stop</td>
<td>stop</td>
<td>plug</td>
<td>plug</td>
<td>stop</td>
</tr>
<tr>
<td>180°</td>
<td>stop</td>
<td>plug</td>
<td>stop</td>
<td>stop</td>
<td>plug</td>
</tr>
<tr>
<td>360°</td>
<td>stop</td>
<td>plug</td>
<td>plug</td>
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<td>plug</td>
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PT.3 BLANK PLUG
PT.4 BLANK PLUG
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.

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<table>
<thead>
<tr>
<th>Flow</th>
<th>PSI (bar)</th>
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<tbody>
<tr>
<td>750 GPM (3000 LPM)</td>
<td>4 (.28)</td>
</tr>
<tr>
<td>1000 GPM (3800 LPM)</td>
<td>6 (.40)</td>
</tr>
<tr>
<td>1500 GPM (6000 LPM)</td>
<td>17 (1.2)</td>
</tr>
<tr>
<td>2000 GPM (7600 LPM)</td>
<td>29 (2)</td>
</tr>
<tr>
<td>2650 GPM (10,000 LPM)</td>
<td>51 (3.5)</td>
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