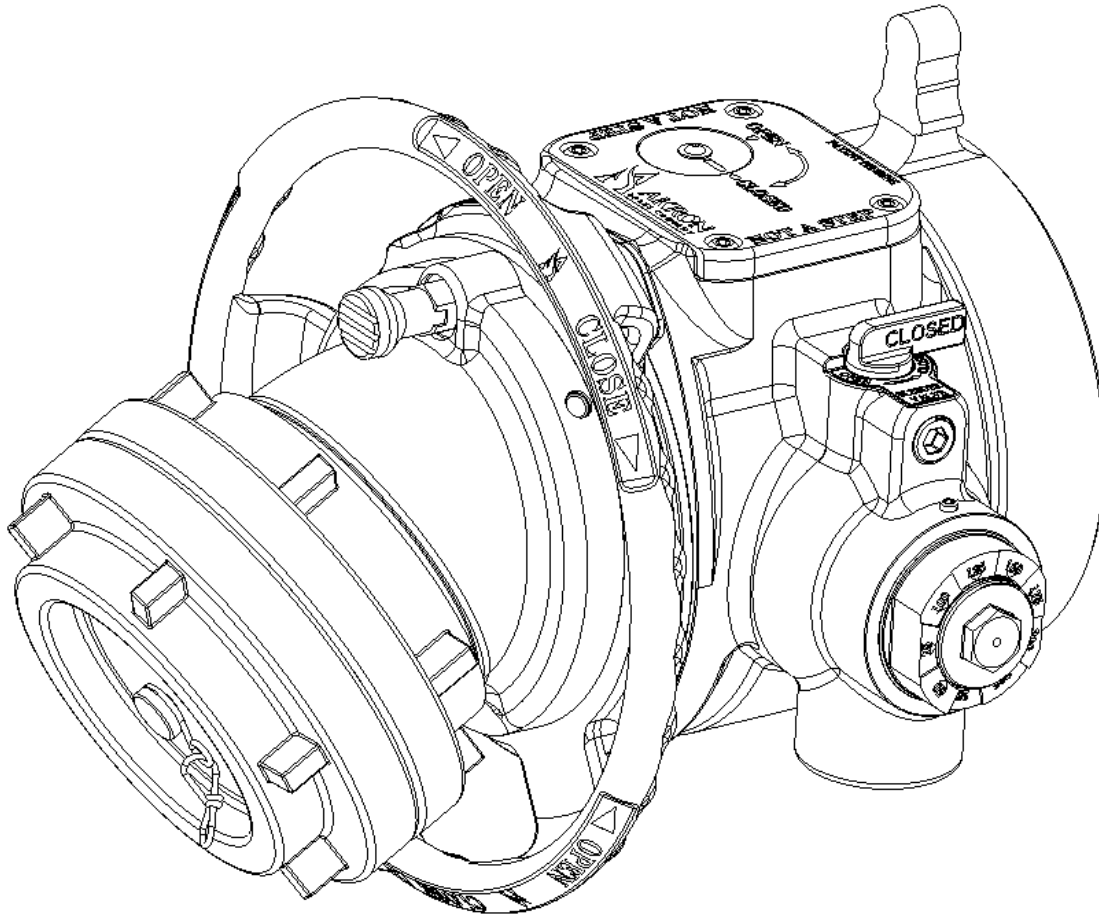




STYLE #7982, 7983 Ball Intake Valve INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

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



Read and follow the operating instructions before use.

For firefighting use only.























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Product Ratings

Parameter	US Measure	Metric Measure
Max. Flow Rate	2000 GPM	7600 LPM
Max. Operating Pressure	250 PSI	17 Bar
Weight	40 lbs	18 kg

Product Warnings

	<ul style="list-style-type: none"> Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.
	<ul style="list-style-type: none"> Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.
	<ul style="list-style-type: none"> Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
	<ul style="list-style-type: none"> Addresses practices not related to personal injury.
	<ul style="list-style-type: none"> Charge all lines slowly to facilitate a controlled water pressure build-up during start-up. Open and close slowly. Rapid opening and closing can cause water hammer.
	<ul style="list-style-type: none"> Do not exceed the maximum pressure or flow ratings of the valve <u>particularly when relay pumping</u>. Exceeding these ratings may lead to an injury or may cause damage to the valve.
	<ul style="list-style-type: none"> Use only for firefighting by trained operators.
	<ul style="list-style-type: none"> Ensure the thread or adapter on the water supply line matches the thread or adapter on the valve inlet. Do not over tighten the supply line onto the unit.
	<ul style="list-style-type: none"> Do not use the valve as a shut-off when testing hose.
	<ul style="list-style-type: none"> Do not use or pressurize valve if any factory installed pieces/parts are missing or damaged.
	<ul style="list-style-type: none"> Ensure relief valve is adjusted to the required setting prior to operation.
	<ul style="list-style-type: none"> Do not connect the hose to the valve until the full length of hose to be used is completely laid.
	<ul style="list-style-type: none"> The Intake Valve contains moving parts. Keep hand, finger and objects away from pinch points.
	<ul style="list-style-type: none"> Your valve should be inspected prior to and after each use, to ensure it is in good operating condition. Periodically, an unanticipated incident may occur where the valve is used in a manner that is inconsistent with standard operating practices and those listed in IFSTA. A partial list of potential misuses follows: <ul style="list-style-type: none"> Operating above maximum rated pressure and flow. Not draining, and allowing water to freeze inside the valve. Dropping the valve from a height where damage is incurred.
	<ul style="list-style-type: none"> There are many "tell tale" signs that indicate valve repair is in order, such as: <ul style="list-style-type: none"> Controls that are inoperable or difficult to operate. Excessive wear. Water leaks.
	<ul style="list-style-type: none"> If any of the above situations are encountered, the valve should be taken out of service and repaired and tested, prior to placing it back in service.
	<ul style="list-style-type: none"> During freezing conditions the valve must be drained to prevent damage
	<ul style="list-style-type: none"> Caution should always be used to insure the unit is not damaged while the truck is in motion.
	<ul style="list-style-type: none"> Replace the identification tags or warning labels if they should become worn or damaged.
	<ul style="list-style-type: none"> Intended to be used with fresh water; if salt water is used, thoroughly flush with fresh water.



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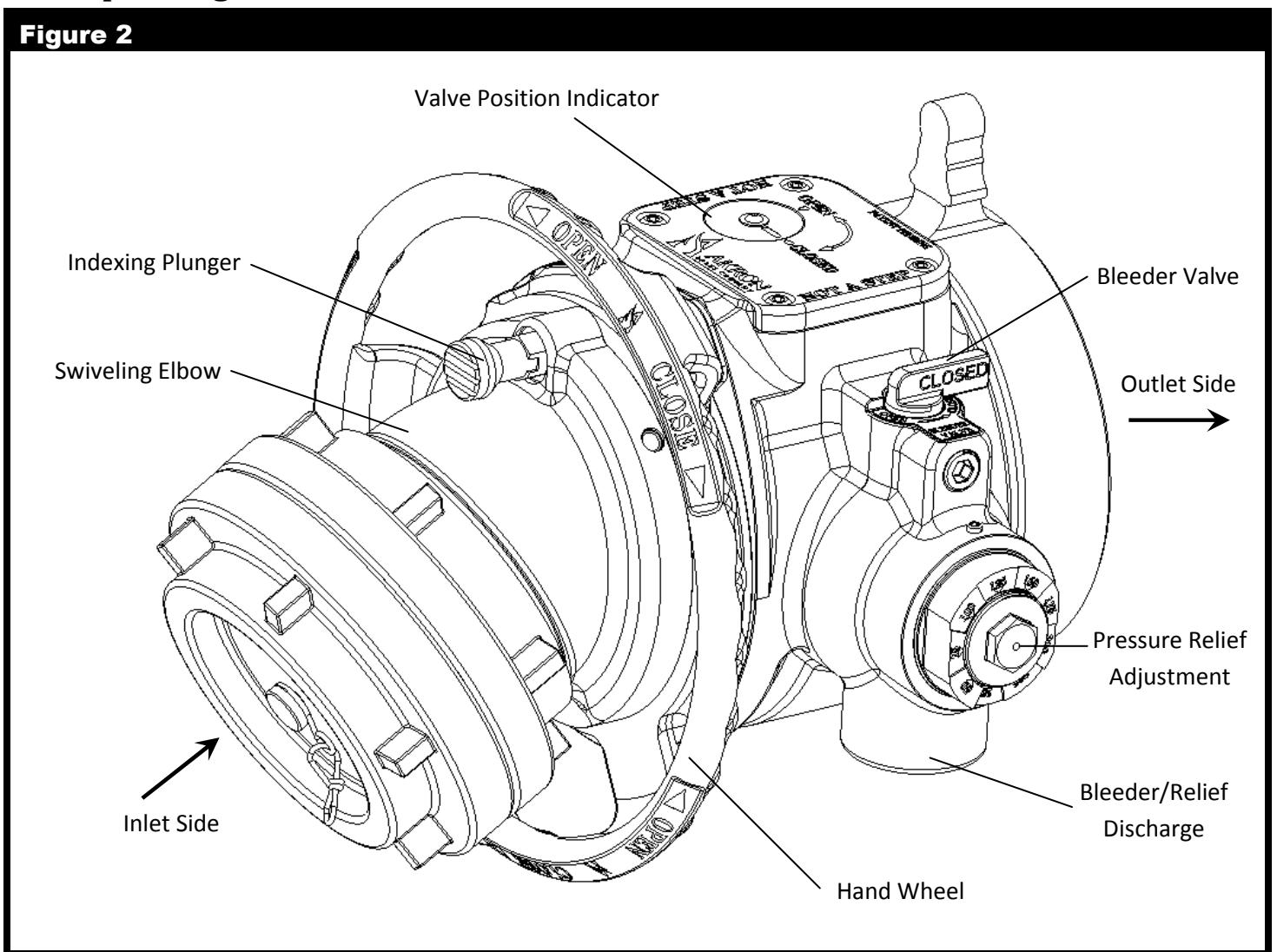
Installation

Mounting to the Apparatus

The outlet side of the intake valve is to be tightened securely to the pump manifold on the apparatus. The valve position indicator should be visible but not necessarily directly on top. If desired, the relief valve discharge can be plumbed to discharge behind the panel or desired location. Ensure that the relief valve is adjusted to the required setting prior to use (see relief valve section).

Operating Instructions

Figure 2





STYLE #7982, 7983 Ball Intake Valve INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

Valve Operation

- To open: Turn the hand wheel counterclockwise.
- To close: Turn the hand wheel clockwise.
- Open and close slowly.
- The indicator located on the top of the valve will specify valve position.

The valve is designed to be hand operated. Do not use a helper bar, mallet or other such device.

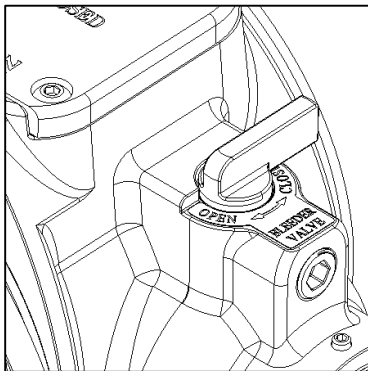
Drafting

If using Storz fittings, a special Drafting Gasket should be used. These gaskets are gray in color and can be ordered using the following part numbers:

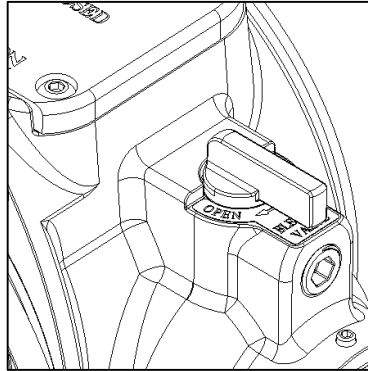
- 4" – 714211
- 5" – 714212
- 6" – 714213

Bleeder Valve Operation

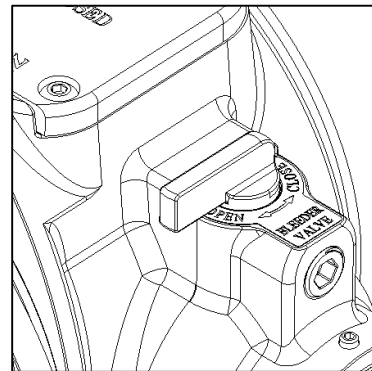
The bleeder valve can be used to bleed air out of an attached inlet line or release the vacuum when draining the inlet line. The valve is closed when the knob is pointing toward the outlet or the truck side and fully open when pointing away from the truck. The bleeder discharges through the same port as the relief valve.



Closed



1/2 Open



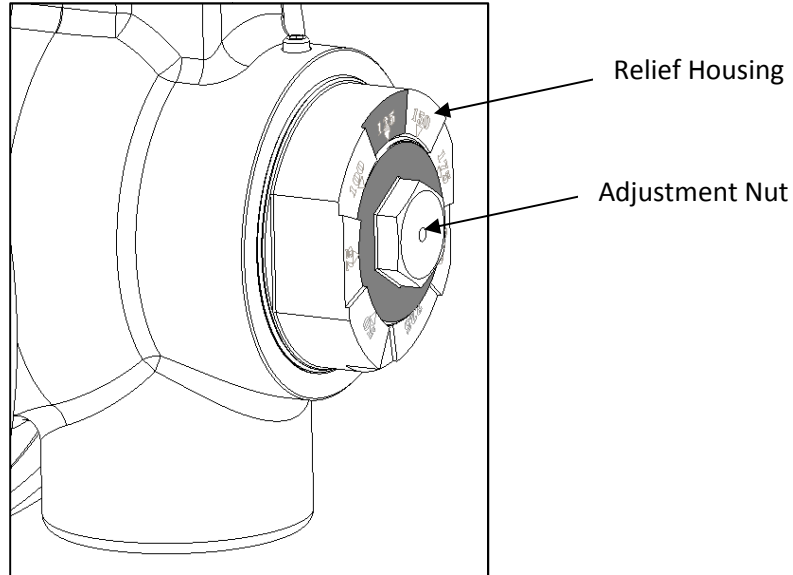
Fully Open

Relief Valve

The relief valve, which is factory set at 150 psi, can be adjusted using a 7/8" socket or wrench. Rotating the adjustment nut clockwise will increase the pressure at which the valve will open and rotating counterclockwise will decrease the pressure. The relief valve is set by aligning the highlighted surface on the adjustment nut to the height of the desired setting labeled on the relief housing. The relief discharge is threaded to accept a 1½ NPT male fitting (not provided); thread sealant is recommended when attaching a discharge pipe. The relief valve should not be tightened past the 250 psi setting; doing so may cause damage to the valve.

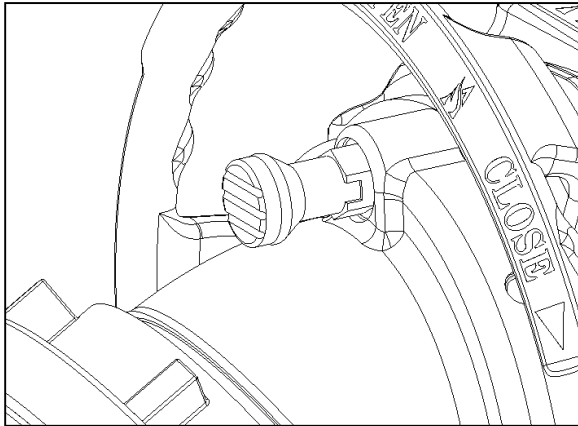


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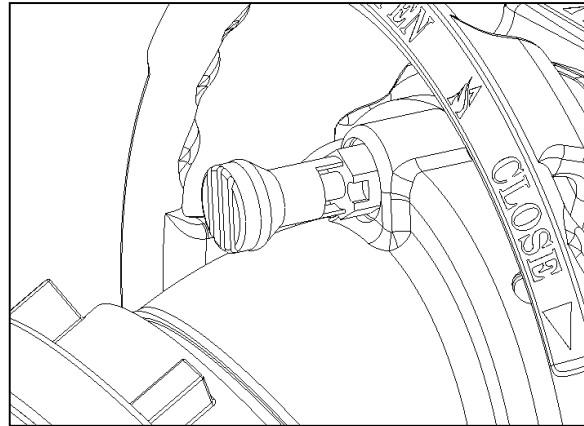


Inlet Elbow (if equipped)

The swiveling inlet elbow can be rotated 360 degrees and can be locked at 45° increments. An indexing plunger, which is located on the top of the elbow, locks and unlocks the elbow rotation. In order to rotate the elbow: first pull and then rotate the plunger to the locked open position. The elbow can then be rotated to the desired position. The plunger can then be returned to the closed position.



Plunger: Closed Position



Plunger: Open Position

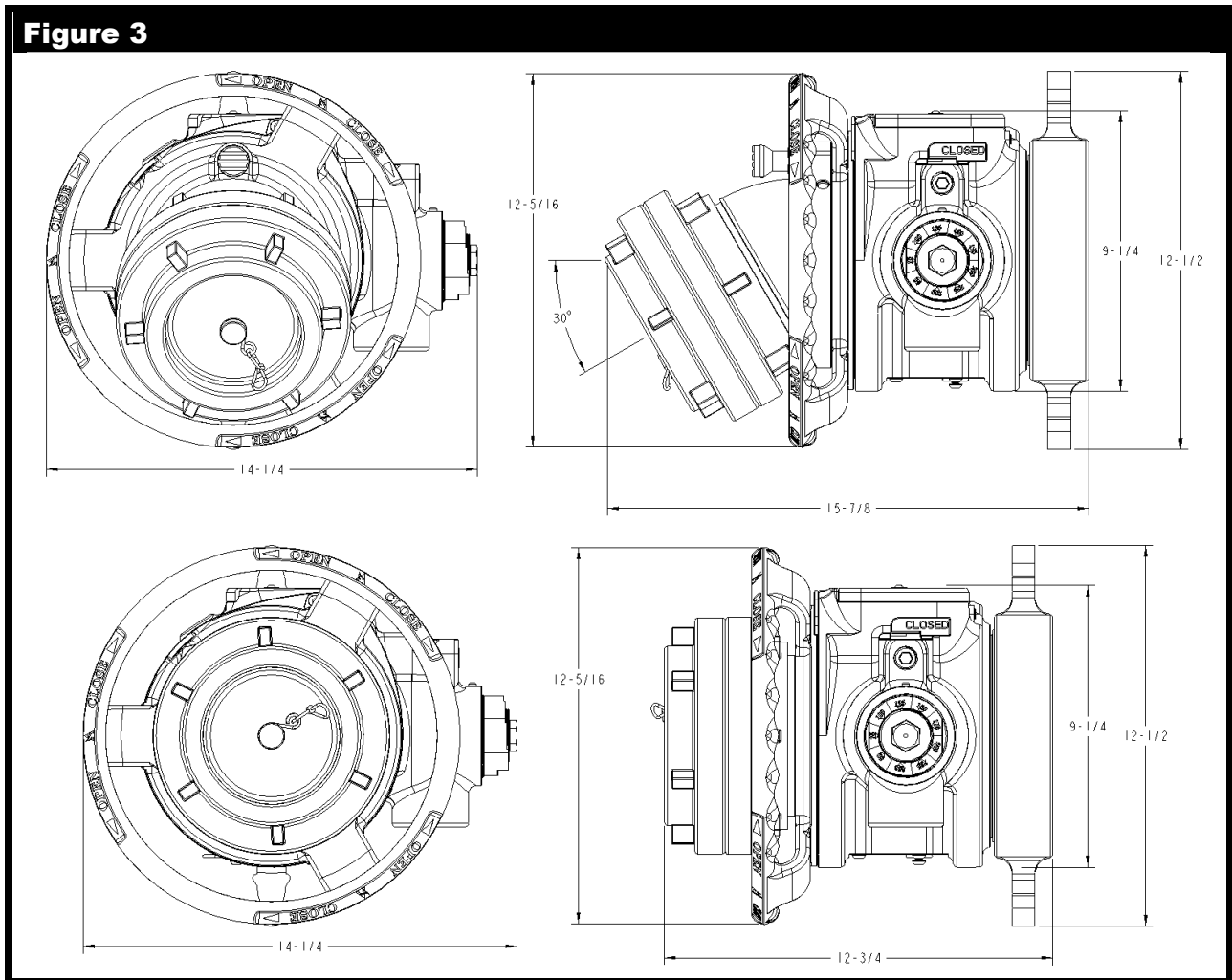


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Maintenance Instructions

- After use, flush the valve with clean water and clean grit and dirt from around exterior moving parts. Doing so will allow the valve to operate as designed.
- Over time the main seat may need replaced. This can be accomplished by purchasing the 79820002 Akron repair kit. Use qualified maintenance mechanics or return the valve to Akron Brass for repair.
- If opening and closing of the valve becomes difficult:
 - Remove the valve from the apparatus. Inspect the seat and ball sealing surface for damage, replace seat if required.
 - Open up the top cover plate by removing the socket head screw holding the indicator and the four screws holding the cover plate. Liberally apply Mobilith SHC 460 grease to the worm and sector gear within the gearbox.
- Do not use strong solvents to clean. Use mild soap and water.

Figure 3





STYLE #7982, 7983 Ball Intake Valve INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

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; 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. Unless otherwise provided herein. Akron Brass industrial electronic components & the Severe-Duty Monitor have a one (1) year warranty. Select Akron Brass handline nozzles and valves carry a ten (10) year warranty. Weldon products have a two (2) year warranty from date of manufacture (excluding consumable components). Select Weldon LED products carry a five (5) year warranty. Honda products have the manufacturers' warranty and Akron Brass disclaims any warranty in respect of those products.

Revision History

Revision	Reason Updated
01/21/2015	New Instruction