Franklin Fueling Systems

AIR ELIMINATOR CHECK RELIEF VALVE ASSEMBLY

INSTALLATION GUIDE

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Conventions used in this manual

This manual includes safety precautions and other important information presented in the following format:

NOTE: This provides helpful supplementary information.

IMPORTANT: This provides instructions to avoid damaging hardware or a potential hazard to the environment, for example: fuel leakage from equipment that could harm the environment.

⚠ **CAUTION**: This indicates a potentially hazardous situation that could result in minor or moderate injury if not avoided. This may also be used to alert against unsafe practices.

⚠ **WARNING**: This indicates a potentially hazardous situation that could result in severe injury or death if not avoided.

⚠ **DANGER**: This indicates an imminently hazardous situation that will result in death if not avoided.

Operating precautions

Franklin Fueling Systems (FFS) equipment is designed to be installed in areas where volatile liquids such as gasoline and diesel fuel are present. Working in such a hazardous environment presents a risk of severe injury or death if you do not follow standard industry practices and the instructions in this manual. Before you work with or install the equipment covered in this manual, or any related equipment, read this entire manual, particularly the following precautions:

IMPORTANT: To help prevent spillage from an underground storage tank, make sure the delivery equipment is well-maintained, that there is a proper connection, and that the fill adaptor is tight. Delivery personnel should inspect delivery elbows and hoses for damage and missing parts.

⚠ **CAUTION**: Use only original FFS parts. Substituting non-FFS parts could cause the device to fail, which could create a hazardous condition and/or harm the environment.

⚠ **WARNING**: Follow all codes that govern how you install and service this product and the entire system. Always lock out and tag electrical circuit breakers while installing or servicing this equipment and related equipment. A potentially lethal electrical shock hazard and the possibility of an explosion or fire from a spark can result if the electrical circuit breakers are accidentally turned on while you are installing or servicing this product. Refer to this manual (and documentation for related equipment) for complete installation and safety information.

⚠ **WARNING**: Before you enter a containment sump, check for the presence of hydrocarbon vapors. Inhaling these vapors can make you dizzy or unconscious, and if ignited, they can explode and cause serious injury or death. Containment sumps are designed to trap hazardous liquid spills and prevent environmental contamination, so they can accumulate dangerous amounts of hydrocarbon vapors. Check the atmosphere in the sump regularly while you are working in it. If vapors reach unsafe levels, exit the sump and ventilate it with fresh air before you resume working. Always have another person standing by for assistance.

⚠ **WARNING**: Follow all federal, state, and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A, and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage, and/or environmental contamination.

⚠ **WARNING**: Always secure the work area from moving vehicles. The equipment in this manual is usually mounted underground, so reduced visibility puts service personnel working on it in danger from moving vehicles that enter the work area. To help prevent this safety hazard, secure the area by using a service truck (or some other vehicle) to block access to the work area.

⚠ **DANGER**: Make sure you check the installation location for potential ignition sources such as flames, sparks, radio waves, ionizing radiation, and ultrasound sonic waves. If you identify any potential ignition sources, you must make sure safety measure are implemented.

The air eliminator relief valve assembly replaces the existing air eliminator assembly and syphon tube on High Capacity Pumps to provided an addition relief valve to the air elimination path to hold prime in column pipe when pump is off.

⚠ **WARNING**: Always tag and lock out breakers so they are not turned on accidentally. Electrical power applied to the STP during STP removal or installation creates a dangerous and potentially lethal electrical shock and explosion hazard.

The Air Eliminator Check Valve Assembly has the following parts:

- Replacement syphon tube (1)
- Air eliminator valve (2)
- Pipe strap (3)

NOTE: You must remove the high capacity submersible pump extractable to install the Air Eliminator Relief Valve Assembly.

1. Under the head of the extractable, locate the syphon tube that runs down the side of the column pipe.
2. Remove the band that holds the tube.
3. Remove the press fitted tube by pulling straight down. The tube is not threaded.
4. Locate the existing air eliminator assembly (item 4 below) on the bottom of the manifold where the syphon tube was installed. This piece is threaded into the manifold.



5. Use a wrench to remove the existing threaded assembly.
6. Install the enclosed air eliminator assembly into the threaded hole. Use a wrench to tighten it to 1-1/4 turns past finger tight.
7. Install the press fit syphon tube on the end of the air eliminator assembly.
8. Install the compression fitting to the relief valve with pipe sealing compound. Make sure the flow is in the direction shown below.



9. Install Compression Fitting onto Air Eliminator Syphon Tube and tighten properly.
10. Strap the replacement tube to the column pipe using the pipe strap.



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