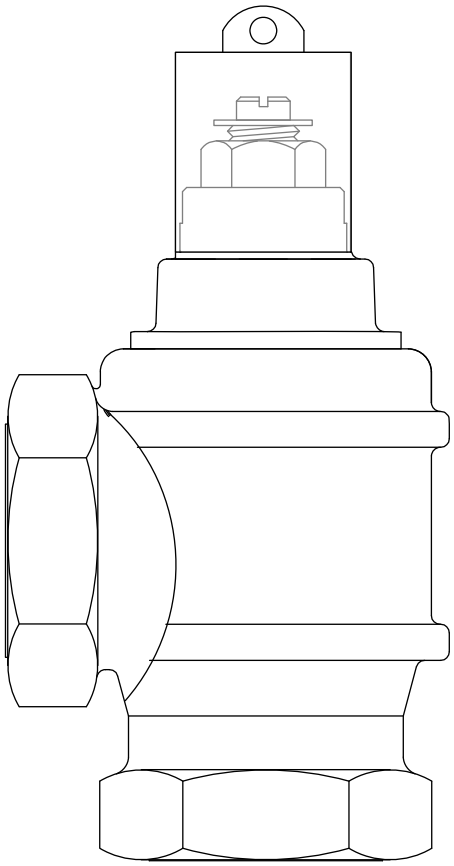
Franklin Electric
FUELING SYSTEMS

# ANTI SYPHON VALVE

## INSTALL GUIDE

F-1674 r4

**MODEL NUMBER**
60530011
60630011
61630011
61630012
61630013
63630011
63630012
63630031
63630032



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F-1674 r4

## 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 Electric 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 Franklin Electric parts. Substituting non-Franklin Electric 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 measures are implemented.

# Contents

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# 1 Introduction

EBW™ Anti Syphon Valves are recommended for all aboveground storage applications to prevent fuel from exiting the storage tank in the event of a broken line or leak. The Anti Syphon Valve will shut-off product flow when lines are broken, preventing fuel spillage and fire hazards.

## 1.1 Documentation

- This document is intended for qualified and certified installation persons.
- Instructions in this document are in English. All other language versions are translations of this original document.
- Illustrations in this document show a typical setup and are for instruction and description purposes only.
- Information given in this document is given as a guide only. It is the installer's responsibility to ensure that correct and safe procedures are always followed.
- This document and related documents are available from:
  Franklin Electric, www.franklinfueling.com.

### 1.1.1 Symbol Legend


Wear Protective Headwear


Wear Eye Protection


Wear Protective Clothing


Wear High-Visibility Clothing


Wear Protective Gloves


Wear Safety Footwear


Refer to instruction guide.


Ventilate Before & During Entering


Ensure Continuous Ventilation


Connect an earth terminal to the ground


Disconnect main plug from electrical outlet


Disconnect before carrying out maintenance or repair


General Warning


Warning: Electricity


Warning: Flammable Material


No open flame; Fire, open ignition source and smoking prohibited

# 2 Safety/Security

## 2.1 General Safety Information

- Only perform procedures in this document you are qualified and certified to perform.
- Personnel working on or with energized equipment must be authorized by relevant regulatory bodies to carry out such work and must have the appropriate training. Check with your employer and relevant regulatory body's rules for working with energized equipment.
- In case of inconsistency or contradiction between information contained in this document and any laws, rules and regulations, obey the stricter of the two.
- Keep unqualified personnel at a safe distance during installation.
- Always wear all required PPE on-site and during installation.
- If it is necessary to remove safety/security devices, immediately reinstall the safety/security devices after completing the work.

## 2.2 Hazard Assessment

Prior to beginning work and prior to recommencing work after leaving and returning to the worksite, a worksite, *pre-job hazard assessment* must be performed to identify safety and environmental needs. At a minimum, this hazard assessment should:

- Identify possible hazards and risks.
- Identify the safety needs of the job.
- Identify the correct procedures, practices and equipment.
- Eliminate unsafe conditions and actions from the worksite.
- Identify the need for personal protective equipment.
- Inspect equipment before use.
- Confirm sheaths of all cables are secured and undamaged.
- Confirm plugs and connectors are properly connected and serviceable.
- Perform ongoing risk assessment during the project.

## 2.3 Required Personal Protective Equipment (PPEs)

These PPEs are required during all phases of installation.


Wear Protective Clothing


Wear Eye Protection


Wear High-Visibility Clothing


Wear Protective Gloves


Wear Protective Headwear


Wear Safety Footwear

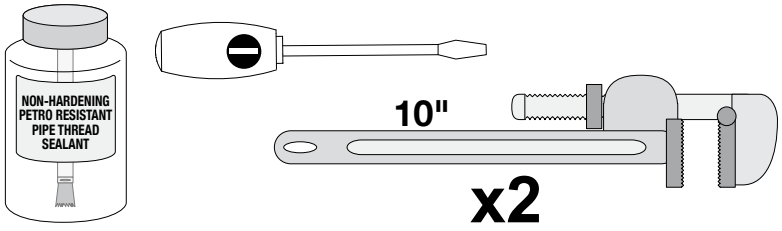
# 3 Installation

## 3.1 Pre-Installation Inspection

**Upon Receipt of Item(s)**

- Verify all items are in accordance with the order.
- Check all items for damage.
- If any item shows damage or is not in accordance with the order, inform Franklin Electric *immediately*.
- Remove the packaging material.
    - Follow all local laws, rules and regulations regarding disposal of discarded parts, packaging material or items and any subsequent components.

## 3.2 Required Tools



# 3.3 Install Instructions

**NOTE**: The anti syphon valve has a thermal relief valve that is set to 25 psi.

1. Determine the correct head height. Measure from the top of the fuel tank to the lowest run between the anti syphon valve and the pump.

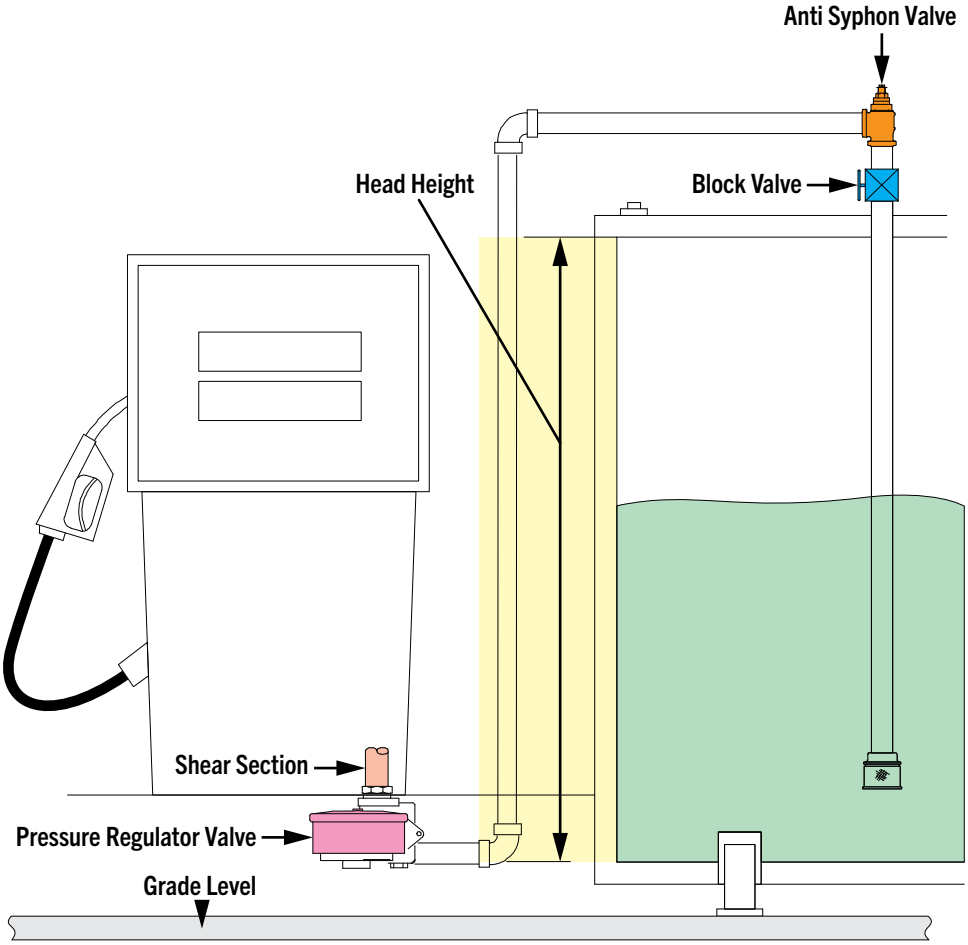



**Figure 3.1**

2. Order the corresponding part whose head range covers the measured site.
3. Install the inlet from the tank in the vertical axis (in line with adjustment head).
4. Install the outlet to the pump on the horizontal axis (perpendicular with inlet).
5. Valves as supplied are set to the maximum head. If necessary, adjust the valve to the desired head (see Figure 3.2). Refer to the Table 3.1 for setting dimensions.

**NOTE**: Apply a non-hardening, gasoline resistant thread sealant to the inlet and outlet threads to get a proper seal (see Figure 3.2).

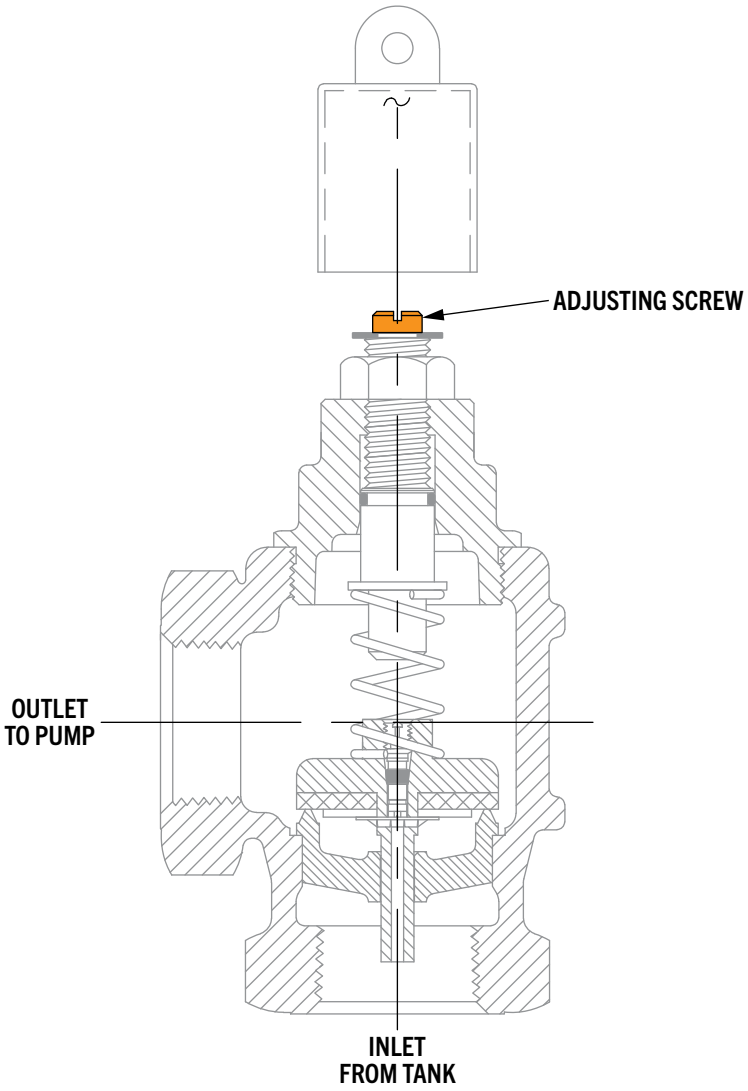



Figure 3.2

# 3.4 Adjustment Table

This table lists the turns from the factory setting.

**TABLE 3.1 — Valve size and model number.** ◊ = FACTORY SETTING*.

| Feet of Head | ¾" | 1" | 1½" | | | 2" | |
|---|---|---|---|---|---|---|---|
| | 60530011 | 60630011 | 61630011 | 61630012 | 61630013 | 63630011<br>63630031 | 63630012<br>63630032 |
| 1 | 5 | 5 | | | 5½ | | |
| 2 | 5 | 5 | | | 4¼ | | |
| 3 | 4 | 4 | | | 3 | | |
| 4 | 3½ | 3½ | | | 1½ | | |
| 5 | 3 | 3 | 6 | | ◊* | 5 | |
| 6 | 2½ | 2½ | 5¼ | | | 4½ | |
| 7 | 2 | 2 | 4½ | | | 3¾ | |
| 8 | 1½ | 1½ | 3½ | | | 3 | |
| 9 | 1 | 1 | 2¾ | | | 2¼ | |
| 10 | ¾ | ¾ | 1¾ | | | 1½ | |
| 11 | ¼ | ¼ | 1 | | | ¾ | |
| 12 | ◊* | ◊* | ◊* | 6 | | ◊* | 5¼ |
| 13 | | | | 5½ | | | 4¾ |
| 14 | | | | 5¼ | | | 4½ |
| 15 | | | | 4¾ | | | 4¼ |
| 16 | | | | 4¼ | | | 3¾ |
| 17 | | | | 3¾ | | | 3¼ |
| 18 | | | | 3¼ | | | 3 |
| 19 | | | | 2¾ | | | 2¾ |
| 20 | | | | 2¼ | | | 2¼ |
| 21 | | | | 1¾ | | | 1¾ |
| 22 | | | | 1½ | | | 1½ |
| 23 | | | | 1 | | | 1 |
| 24 | | | | ½ | | | ½ |
| 25 | | | | ◊* | | | ◊* |

*Valves ship at the factory setting, where the adjustment screw and nut are bottomed out so the retaining ring is in contact with the nut on top of the valve.

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F-1674 r4