



## ANTI SYPHON VALVES

EBW™ brand anti siphon 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 siphon valve will shut-off product flow when lines are broken, preventing fuel spillage and fire hazards. Each valve has an adjusting mechanism accommodating various liquid head pressure settings. Each valve also includes a pressure relief valve to eliminate thermal expansion of fluid in the lines. The adjusting mechanism is lockable after the preferred setting is made. Valves are set to maximum head pressure when shipped from the factory.

### Highlights

- Hydrostatic pressure adjusting mechanism with durable weather cap.
- Built-in thermal expansion pressure relief valve.
- ¾" and 1" models are ideal for fuel oil and generator applications.
- Install in vertical position only.
- Can be used in pressure systems.
- NFPA 30 fire rating.

### Specifications

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- Body material: Ductile iron-zinc plated or E-coated
- Spring material: Zinc plated steel
- Adjustment screw: Stainless steel
- Disc: Fluorocarbon seal

#### Approvals/Certifications

- ULC listed.

#### Dimensions

Model	Size		Thread	Weight	
	In.	mm		Lbs.	kg
605-300-01	0.75	19.02	NPT	3.4	1.54
606-300-01	1	25.4	NPT	3.2	1.45
616-300-03	1.5	38.1	NPT	4.6	2.09
616-300-01	1.5	38.1	NPT	4.6	2.09
616-300-02	1.5	38.1	NPT	4.6	2.09
636-300-11	2	50.8	NPT	7.2	3.27
636-300-12	2	50.8	NPT	7.2	3.27
636-300-31	2	50.8	BSPT	7.08	3.22
636-300-32	2	50.8	BSPT	7.08	3.22

### Ordering Information

Model	Description
605-300-01	¾" NPT anti siphon valve, 0' to 12' head pressure
606-300-01	1" NPT anti siphon valve, 0' to 12' head pressure
616-300-03	1½"NPT anti siphon valve, 0' to 5' head pressure
616-300-01	1½" NPT anti siphon valve, 5' to 12' head pressure
616-300-02	1½" NPT anti siphon valve, 12' to 25' head pressure
636-300-11*	2" NPT anti siphon valve, 5' to 12' head pressure, AGB compatible
636-300-12*	2" NPT anti siphon valve, 12' to 25' head pressure, AGB compatible
636-300-31*	2" BSPT anti siphon valve, 5' to 12' head pressure, AGB compatible
636-300-32*	2" BSPT anti siphon valve, 12' to 25' head pressure, AGB compatible

\*Alcohol, gas, biofuel compatible (E-85, gasoline and biodiesel) models come with E-coated body for full compatibility.



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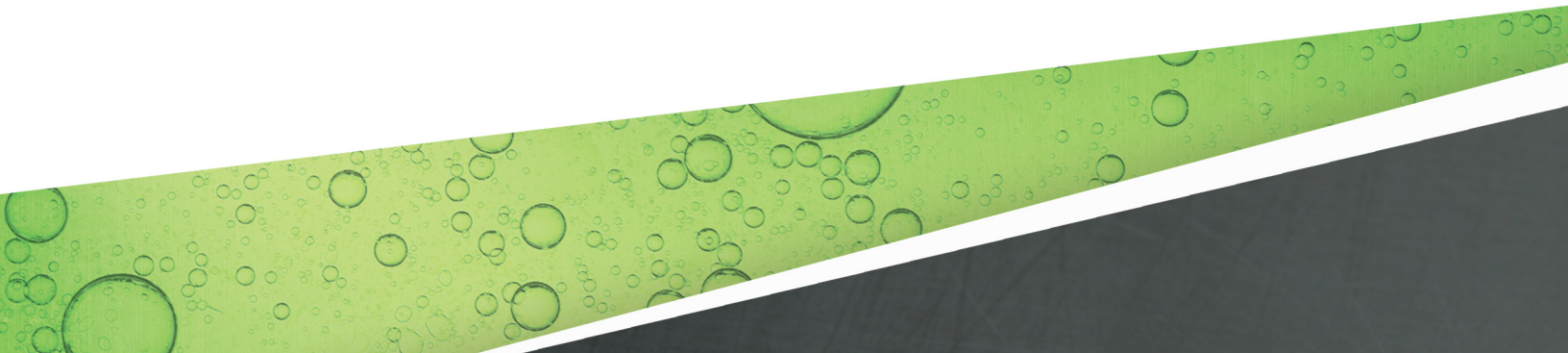
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# **ANTI-SYPHON VALVE**

## **INSTALLATION GUIDE**



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# Introduction

## Conventions used in this manual

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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.

## Questions and concerns

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In case of emergency, follow the procedures established by your facility. If you have questions or concerns about safety or need assistance, use the information below to contact Franklin Fueling Systems:

Web: [franklinfueling.com](http://franklinfueling.com)

Telephone:

USA and Canada: +1.608.838.8786, +1.800.225.9787

USA Technical Support: 1.800.984.6266

UK: +44 (0) 1473.243300

Mexico: 001.800.738.7610

China: +86.10.8565.4566

# Operating precautions

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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.

**⚠ WARNING:** Discharge static electricity from the product before you install it, and make sure it is properly grounded while in service.

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

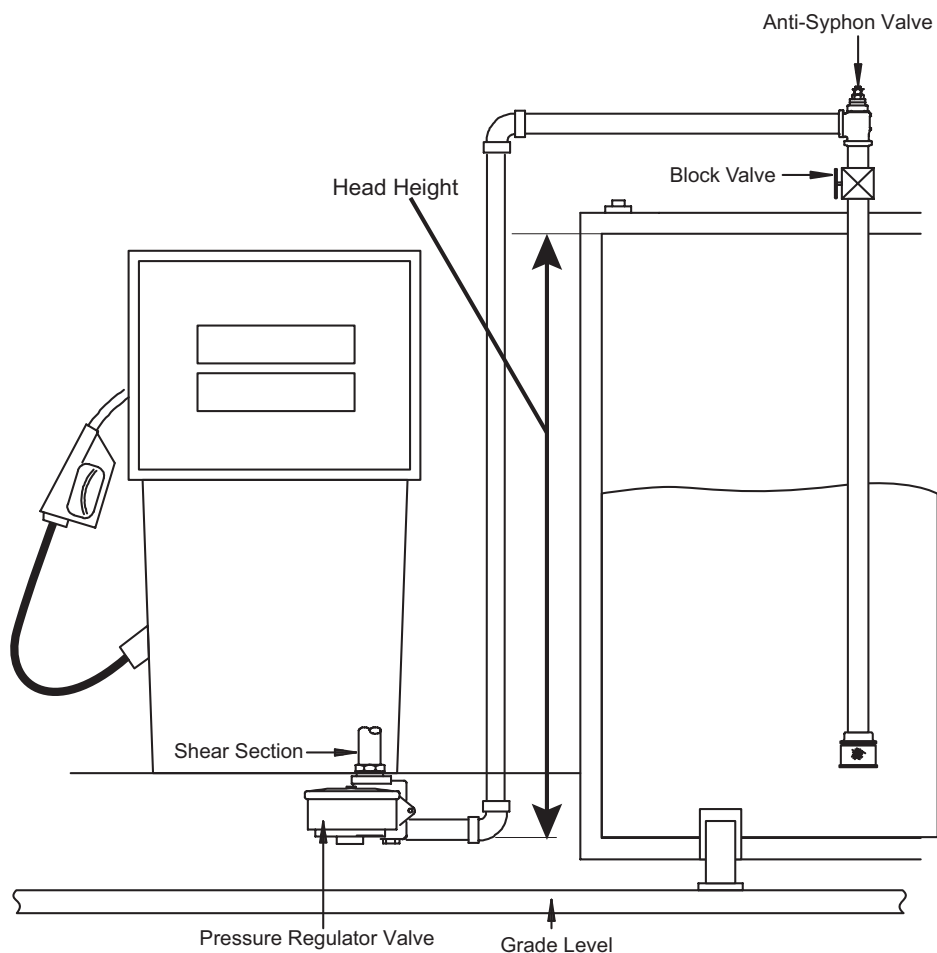


# Installation

## Installing the Anti-Syphon Valve

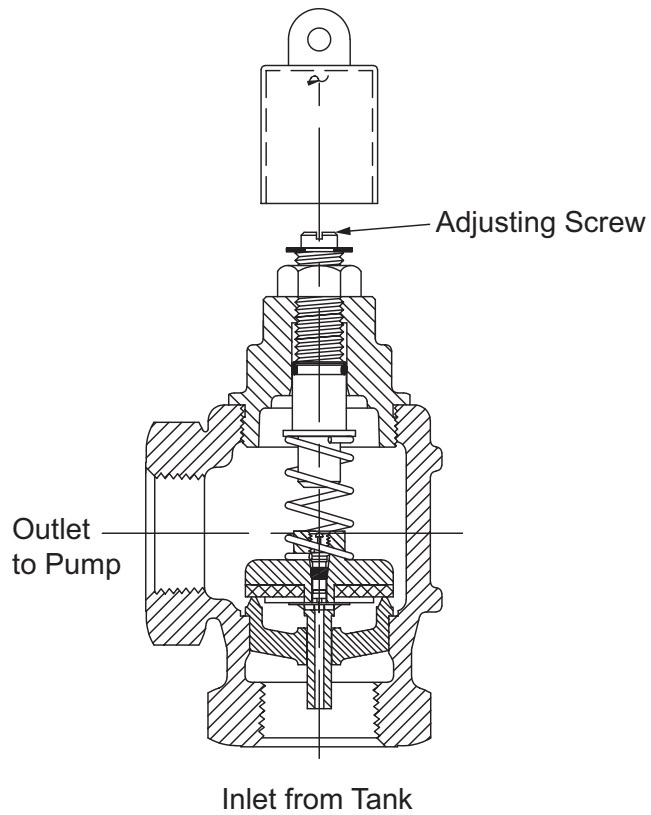
**NOTE:** The anti-syphon valve has a thermal relief valve that is set to 25 psi.

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.



2. Order the corresponding part whose head range covers that of 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. Refer to the table on the second page for setting dimensions.



**NOTE:** Apply a non-hardening, gasoline resistant pipe dope to the threads of both the inlet and outlet to get a proper seal.



# Adjustment table

This table lists the turns from the factory setting.

Valve Size and Model Number							
Ft. of Head	¾"	1"	1½"			2"	
	60530001	60630001	61630001	61630002	61630003	63630011/31	63630012/32
1	5	5			5½		
2	5	5			4¼		
3	4	4			3		
4	3½	3½			1½		
5	3	3	6		Factory Setting*	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	Factory Setting*	Factory Setting*	Factory Setting*	6		Factory Setting*	5¼
13				5½			4¾
14				5¼			4½
15				4¾			4¼
16				4¼			3¾
17				3¾			3¼
18				3¼			3
19				2¾			2¼
20				2¼			2¼
21				1¾			1¾
22				1½			1½
23				1			1
24				½			½
25				Factory Setting*			Factory Setting*

\* 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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