

# Service Bulletin

#FRSB0020

**Date of Bulletin:** May 2, 2008  
**Effective Date:** May 2, 2008  
**Pump Series Affected:** Series 300V & 700V  
**Affected Components:** N/A  
**Subject:** Q & A for 300V & 700V Pumps  
**Issuing Authority:** Sales

## Q & A for Fill-Rite 300V / 700V Series Fuel Transfer Pumps

**Q.** *What are the improvements in the 300V/700V Series fuel transfer pumps?*

- A.**
1. Important **SAFETY** feature – a vacuum breaker/anti-siphon device is now standard. The hassle of purchasing and installing an aftermarket kit is no longer required.
  2. The new flange mounted outlet provides for **EASY** filter installation.
  3. With the pump outlet on the top, **ALL** large fuel filters will fit!
  4. **FLEXIBLE** orientation of the discharge outlet. You now have a **CHOICE** of what works best for your set up.
  5. **EASY** access to pump bypass cap for serviceability.
  6. 1 ¼ -inch tank adapter inlet is standard on all models.

**Q.** *What is the suction port size on the tank adapter of the 300V/700V Series fuel transfer pumps?*

- A.** 1 ¼-inch. This standard suction port size for all AC pumps creates a **SIMPLE**, economical incorporation of the vacuum breaker/anti-siphon features, such as the vapor return line.

**Q.** *What are the specific safety regulations that the new pump features address?*

- A.** NFPA 30A 4.3.6.4 indicates that a way shall be provided to prevent the release of liquid by siphon flow.

The Canadian Technical Standards and Safety Act, 2000, section 4.4.10 states that product piping connected to an aboveground storage tank shall be equipped with an automatic valve to prevent siphoning or draining of the tank should a leak occur in the product pipe.

The anti-siphon valve that is now standard on the 700V and 300V Series fuel transfer pumps meets these requirements.



**Return Line Kit  
Part # 700KTH1067**



**Return Line Kit Installed on  
Model FR700V**

**Q. What can I do if the anti-siphon valve leaks?**

**A.** Replace with replacement part #700KTH0931.

Use the Return Line Kit (part #700KTH1067). This kit is for vapor return and any incidental liquid that should be returned to storage tank.

**Q.** Can I plug the anti-siphon valve?

**A.** Plugging the valve is not recommended because the valve cannot prevent a siphon when it is plugged. Tuthill recommends that the Return Line Kit (part # 700KTH1067) be used to plumb the anti-siphon valve back to the tank adapter. Plugging the valve will not have any effect on the flow rate.

**Q. Do I have to replace the suction pipe when changing an older model 700 or 300 Series pump in the field to 1 1/4-inch?**

**A.** No. Since the suction line is attached to the tank (or bung) adapter, simply screw the 700V or 300V pump on to the bung adapter that is already in the tank. No new suction pipe is required.

**Q. Has the carton/packaging for the 300V & 700V Series fuel transfer pumps changed?**

**A.** Yes. 300V & 700V Series fuel transfer pump cartons/packaging are now environmentally friendly and more durable.

1. Tuthill switched from using white bleached cartons to brown kraft brown paper cartons because they are an environment-friendly product.
2. The packaging is now more durable which decreases the chance of damage to the product during shipment. Improvements include double wall construction, nested parts packaging, and pre-molded foam protection.



**700V Series Shown**

If you have any questions about 300V & 700V pumps, please contact your Sales Representative or one of our Customer Service Representatives at 800-634-2695.

Jeff Gerber  
Technical Sales Specialist  
Tuthill Transfer Systems