APPLICATION SHEET

#FRAS002

Date of Bulletin:	April 18, 2009
Effective Date:	April 18, 2009
Pump Series Affected:	100 & 5200 Hand Pumps
Subject:	Fuel Pushing out Spout
Issuing Authority:	Sales

Tuthill Transfer Systems has been made aware of an application that we want to make you, our valued channel partner, aware of so that you have options should you come across this same application.

When using a 100 or 5200 series hand pump in a tank with a vented tank cap, such as Tuthill Transfer Systems' FRTCB (see picture at bottom) or FRTC, fuel may push out the spout on the pump.

This happens because the vented tank cap is designed to hold a constant tank pressure to prevent fuel loss due to evaporation, as well as to protect the fuel from becoming contaminated with moisture.

The tank cap will open when it sees 1.5 ounces of vacuum, and it will vent the tank at 2.5 psi.

It is this 2.5 psi tank pressure that causes fuel to push out the spout. 2.5 psi will push fuel upwards between 4 to 5 feet. As the pump cannot stop fuel from pushing through, this tank pressure will push the fuel up the suction line, through the hose and out the spout.

Some options for stopping this loss of fuel:

1. Use a manual nozzle in place of the spout.
2. Place a ¾" ball valve between the hose and spout.
3. If installing on a tank in a vehicle, consider using a 12 VDC pump.

Please contact your Sales Representative or our Customer Service Department if you have any questions at 800-634-2695.

Sincerely,

Jeff Gerber
Technical Sales Specialist
Tuthill Transfer Systems

FRTCB