



Vaporless Manufacturing, Inc.
Quality Petroleum Equipment
Solutions for Over 20 Years

Overfill Protection Valve – Field Test Kit
Installation Instructions (New Install)
OFP-2\1 & OFP-3\1
March 1st, 2007

Install FTK After Step 5 of OFP Installation Instructions

COMPONENTS:

- (1) Mounting Bracket (with hook and toggle switch)
- (1) 3' Bead Chain
- (1) Retainer Sleeve
- (1) End Coupling
- (1) End Coupling set in ½" Port Plug
- (2) ¼-20 x ½" Screws

INSTALLATION:

1. Connect mounting bracket to bushing using ¼-20 x ½" screws.
2. Feed chain through ½" port on bushing.
3. With clevis at 90° (in contact with poppet) feed chain through clevis. Two holes are provided; feed chain through hole that is directly below ½" port on bushing.
4. Attach retainer sleeve to last bead on pilot valve end of chain. Tap into clevis until secure.

Measure Chain Length

5. Hang end coupling from hook. (Toggle switch in down position).
6. Make sure poppet (stainless steel nub) is pulled as far as possible out of pilot valve.
7. Pull float arm clevis up until just shy of contact with poppet.
8. Pull chain until tight (without letting clevis touch poppet). Mark bead that is closest to cup of end coupling.
Do not cut chain here.
9. Clamp end coupling to marked bead.

Verify Chain Length

Toggle switch in the down position:

- Chain is tight.
- Clevis is nearly horizontal, just shy of contact with pilot valve poppet.

Toggle switch in the up position:

- Chain is tight.
- Hook spring is slightly extended.
- Clevis is past horizontal.
- Poppet is fully compressed in to pilot valve.

10. After verifying chain length, count 5 beads up from end coupling (clamped bead is #1). Cut chain between 5th and 6th bead.
11. Attach end coupling set in ½" port plug to last bead.
12. Leave plug in bushing when not using FTK.
13. FTK mounting bracket must be removed to allow installation of OFP Valve.
 - a. Remove mounting bracket.
 - b. Follow remaining OFP installation instructions (steps 8 – 13).
 - c. After installing OFP Valve and tubing, reconnect FTK mounting bracket.

➤ **Do not** spin hook on FTK. Rotating the hook may damage an internal spring, rendering the FTK inoperable.



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FIELD TEST KIT OPERATION

1. Remove FTK ½” port plug and attach end coupling to the hook.
2. Move toggle switch to the up position.
3. Connect fuel transfer hose to quick-connect piped to inlet of OFP valve.
4. Begin fuel transfer at low pressure.
5. **If fuel transfer is successful, Overfill Protection Valve is not operating properly. Contact Vaporless Manufacturing before proceeding.**
6. If fuel transfer is not successful, Overfill Protection Valve is operating correctly.
 - a. Turn off transfer pump.
 - b. Move FTK toggle switch to the down position.
 - c. Replace plug in port.
 - d. Transfer fuel.