Model 39 Remote Fill
Overfill Protection Valve

FOR UNDERGROUND STORAGE TANKS
INSTALLATION INSTRUCTIONS

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Installation Instructions

The Model 39 Overfill Protection Valve is designed to prevent the overfill of underground fuel storage tanks during product drops. The valve operates automatically when product reaches a predetermined level and gradually slows flow down to allow the operator time to shut the product drop off. After the product drop has been shut off, the remaining fluid in the line is drained automatically into the tank. For safety, the valve should be used in conjunction with a Spill Containment Manhole.

Important Note *Prior to installation read these instructions completely. Check to make sure all parts are included. Do not substitute parts for those provided, unless specified. Failure to properly follow these instructions may result in improper operation of the valve.*

Parts List

39-RFK

- (1) Cast iron 4" NPT tee
- (1) Spring
- (1) Ragstopper
- (1) JH69 stick port flapper
- (1) 724-404 4 x 4 fill adapter
- (1) 733-40 4" fill cap 4" nipple

- (1) 4" nipple

39 Overfill Valve (NOT INCLUDED)

Tools Needed

1. Drill
2. Measuring Tape
3. Hammer
4. Hacksaw
5. File or other Deburring tool
6. Permanent Marker
7. Bearing Grease or Oil
8. Sharp or new 1/8" Drill Bit

39 Valve Remote Fill Adapter Kit Instructions

1. Install Remote Adapter T onto the Riser pipe.

2. Measure the vertical distance from riser pipe lip in the remote fill T to top of tank.

3. Determine distance, “B” for shut off point from chart below.

Tank Diameter [ft]	“B” Dimension for 95% Shut Off	“B” Dimension for 90% Shut Off
4	4 ¾”	7 ½”
5	6”	9 ½”
6	7”	11 ¼”
7	8 ¼”	13 ¼”
8	9 ½”	15”
9	10 ½”	17”
10	11 ¾”	18 ¾”
11	13”	20 ¾”
12	14”	22 ½”

Values given are approximate. Exact values can be calculated from the following equations:
*For 95% shut off, Distance from top (in inches) = 1.1677 * Diameter of Tank (in feet)*
*For 90% shut off, Distance from top (in inches) = 1.8777 * Diameter of Tank (in feet)*

4. Use hacksaw to cut supplied drop tube 2 ½” shorter than the sum of these two Distances (Drop tube length = dimension A + dimension B – 2 ½”).
Measure distance from flared end of drop tube. *Be sure to debur the cut edge of the drop tube to prevent tearing of o-ring when valve is inserted into drop tube.*

5. Use supplied templates to drill three equally spaced 1/4" holes in the drop tube 5/8” from the cut edge for the top portion of the drop tube and ½” from the cut edge for the lower portion of the drop tube.

6. Remove O-Ring from valve. Align holes in drop tube with threaded holes in Valve body. Use supplied countersink to create countersink in each hole by threading post into Valve body and tightening down to create indentation in drop tube over countersink in Valve Body.

7. Use included Ready Mix Epoxy Packs to put a bead of epoxy around undercut

for drop tube on valve. Be careful to keep the bead of epoxy away from the o-ring groove to prevent clogging of o-ring seat.
8. Carefully attach O-Ring onto Valve. Insert Model 39 into top piece of drop tube, using oil or grease to assist in sliding over O-Ring. *To avoid tearing the O-Ring, debur the holes just drilled before inserting valve.*

9. Fasten Valve to Drop Tube using three 10-24 countersink screws supplied.

10. Slide lower section of drop tube over bottom half of valve, being sure to use oil or grease to slide over o-ring as done in Step 6. Repeat Steps 6 - 8 for lower half of drop tube.

11. Adjust overall length of 39/drop-tube assembly by cutting a 45° angle on open end of drop tube. Make sure the bottom edge of the drop tube is the desired distance from bottom of tank. (6 " from bottom or as per local requirements)

12. Clean and debur inside of riser pipe to prevent damage to valve and float while inserting.

13. Insert drop tube and valve assembly straight into tank. Be sure to push float completely against valve body (poppet completely open) against preset spring so that the float will be able to be inserted into the riser pipe. When the valve clears the riser inside the tank, the float will pop back into its preset position. *Note: make sure there is a rubber gasket under flange of upper drop tube. Do not force valve into riser, if the valve does not fit, clean the interior of the riser and re-insert valve/drop tube assembly.*

14. Reinstall spring and ragstopper. You can either cap off the tee if being installed inside a sump or install an upper riser to a spill container for a dual point fill. Valve is now ready for operation.