Clay & Bailey Mfg. Co.

Fact Sheet

A CENTURY'S WORTH OF INNOVATION

Testable AST
Overfill Prevention Valve

1228 3"x4"

1228 2"x4"

Florida DEP EQ-888
UL 2583 Listed

Clay and Bailey Mfg. Co.

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A CENTURY'S WORTH OF INNOVATION

4/18

Has been recycled

Ready for Operation

The Clay & Bailey 1228-03-3525 ALLT designed to provide reliable filling operation.

The 1228-03-3525 ALLT has these outstanding design features:

- Accepts pressure delivery of fuel
- Retrofittable to existing AST
- High GPM flow rate.

Closed

Part #	Size
1228-03-3525 ALLT	3”x4”

Includes 24” Fill Tube, 8 ft Drop Valve Test Mechanism.

The 1228 3”x4” ALLT Overfill Prevention Valve has these important certifications. FL DEP listed, equipment registration number EQ-888. UL 2583 Listed.

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Fact Sheet

A CENTURY'S WORTH OF INNOVATION

Ready for Operation

Closed

The Clay & Bailey 1228-03-2024 ALLT designed to provide reliable filling operation.

The 1228-03-2024 ALLT has these outstanding design features:

- Accepts pressure delivery of fuel
- Retrofittable to existing AST
- High GPM flow rates.

Part #	Size
1228-03-2024 ALLT	2"x4"

Includes 24" Fill tube, 8 ft drop valve, test mechanism and dust cap.

The 1228 2"x4" ALLT Overfill Prevention Valve has these important certifications. FL DEP listed, equipment registration number EQ-888. UL 2583 Listed. US Patent #7584766

WARNING

THIS VALVE IS USED AS SUPPLEMENTARY WARNING TO THE OPERATOR OF THE TANK DURING FILLING. THE VALVE SHOULD NOT BE SOLELY RELIED ON FOR OVERFILL SITUATIONS. THE OPERATOR IS RESPONSIBLE FOR ANY OVERFLOW THAT MAY OCCUR AND NEEDS TO BE AWARE OF THE CONDITIONS OF THE TANK AT ALL TIMES.

WARNING

THE VALVE NEEDS UNCONTAMINATED LIQUID FOR THIS PRODUCT TO OPERATE SUCCESSFULLY. FAILURE TO MEET THIS REQUIREMENT MAY CAUSE DAMAGE TO THE VALVE.

WARNING

FAILURE TO FOLLOW ANY OF THE WARNINGS AND INSTRUCTIONS IN THIS DOCUMENT COULD RESULT IN A HAZARDOUS LIQUID SPILL AND WILL VOID THE WARRANTY.

A. Preparing the1228 Testable Overfill Prevention Valve for the Correct Shut Off Height.

1. Remove the packing while holding the float stable.
2. Check to make sure no damage was done during shipping. Inspect the functionality of the float and the valve by lifting up the float, making sure it does not bind, and checking check that the valve opens.
3. Establish the correct Shut Off Height for the tank. Figure 1A.
4. Establish the correct Riser Pipe Height for the tank. If there is a Spill Containment Box review Figure 1B for Riser Pipe Height instructions.
5. Determine the Fill Pipe Length using the Formula below.

   Fill Pipe Length = Shut Off Height + Riser Pipe Height

   Fill Pipe Length = _____ + _____ = _____
6. Cut the Fill Pipe to the determined length above and soften edges that might compromise the installation.
7. After cutting the Fill Pipe, thread the cut end.
8. Cut the Drop tube to proper length by subtracting 8 inches from the shut off height and cutting at a 45-degree angle. This should give a 6-inch gap between the bottom of the tank to the drop tube.
9. Attach Drop Tube and anodized end of the cut Fill Pipe into the Valve as shown. Attach Collar to other end of the Fill Pipe. Apply thread sealant to secure connections. Figure 2A.

Warning: Do not use excessive thread sealant. This may result in the valve malfunction.

Warning: Do not use any wrenches on any part of the valve body. This will void the warranty.

10. Thread the anodized end of the Fill Pipe into the Valve Body. Attach the Collar to the other end of the Fill Pipe. Figure 2A, Figure 2B
11. Scribe on the collar the direction of the float.

B. Installation of the testable cable and fittings. Figure 3A

1. Remove cable plug and the wire rope compression sleeves from the packing box.
2. Feed the plain end of the cable through the open in the collar till the plug is to the opening.
3. Slide a compression sleeve onto the cable.
4. Run the cable through the eyelet bracket in the top of the float. **Warning: Make sure the cable is not wrapped around the float rods as this will cause the valve not to function properly.**
5. Pull all the excess cable through eyelet on the float and the cable back through the compression sleeve.
6. Holding the sides of cable slide the sleeve eyelet bracket in the float.
7. Holding the cable and the sleeve tight to the bracket crimp the sleeve.
8. Remove the excess cable by cutting it off.
9. Pull on the plug to check the float moves freely.
10. Thread the plug into the opening in the collar.

C. Cutting and installing the drop tube.

1. Determine the drop tube length by subtracting 8” from the shut off height found in the tables in Figure 1A.
2. Measure from the flange end of the drop tube to the length calculated in step 1 and mark the tube.
3. Cut the drop tube at a 45 degree angle.
4. Clean and remove any burrs from the drop prior to attaching the tube to the valve.

5. Remove the drop tube clamp from the bottom of the valve and slide the clamp over the tube.
6. Place the drop in the bottom of the valve and thread the clamp back into the valve and tighten.

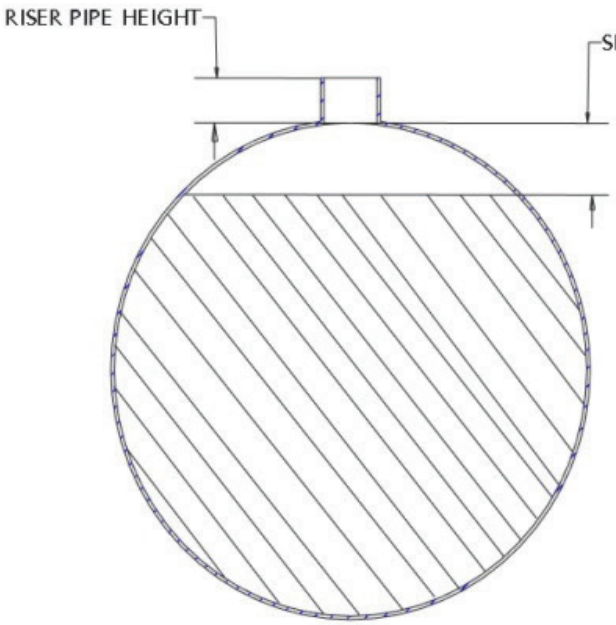
D. Installation of the OP Valve into the tank.

1. Record the serial number on the side of the valve prior to installing.
2. Start the drop tube into the 4" opening while holding the float to the drop tube.
3. Holding the float, start the float through the opening. This may be a tight fit and may require additional force to push the float through the opening.
4. Thread the collar onto the 4" opening till the collar is hand tight.
5. Check the alignment marker for the float and adjust the collar position to line the float with the centerline of the tank.

Record the OP Valve serial number and retain with tank records.

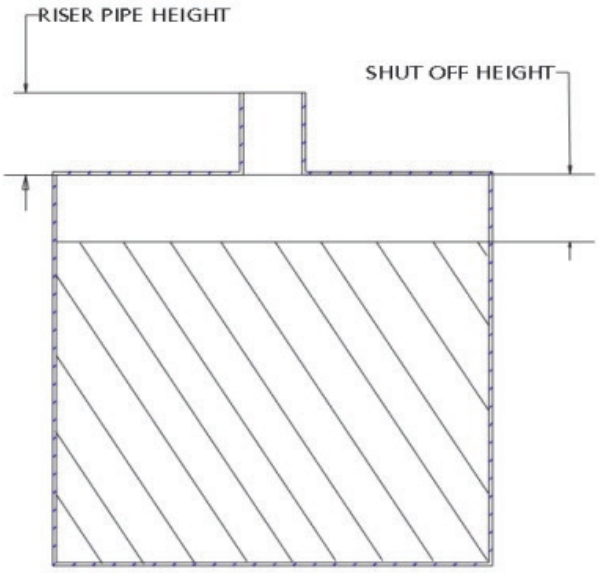
Diagrams:

Figure 1A



ROUND HORIZONAL TANK

ROUND HORIZ.TANK HEIGHT	90% SHUT OFF HEIGHT	95% SHUT OFF HEIGHT
36"	30.4"	32.5"
48"	40.5"	43.4
60"	50.8"	54.2"
72"	60.8"	65.1"
96"	81.1"	86.6"



RECTANGULAR TANK

RECT. TANK HEIGHT	90% SHUT OFF HEIGHT	95% SHUT OFF HEIGHT
36"	32.4"	-----
48"	43.2"	45.6"
60"	54"	57"
72"	64.8"	68.4"
96"	86.4"	91.2"

Figure 1B

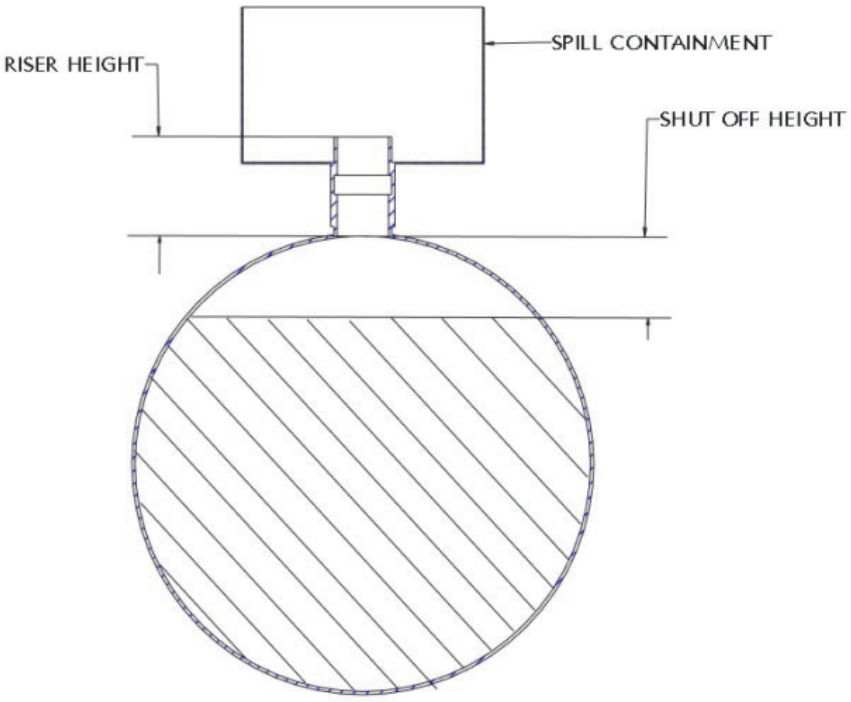


Figure 2A

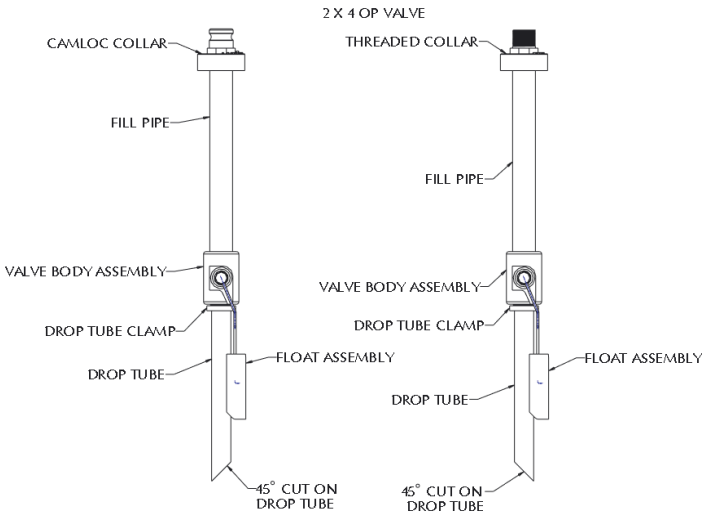
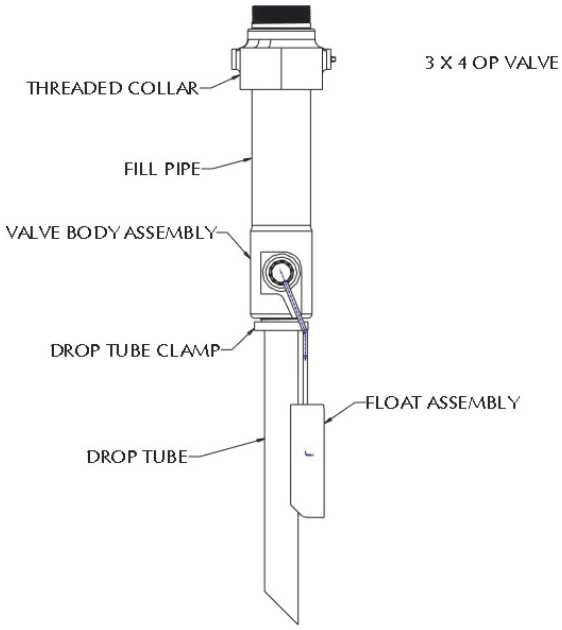


Figure 2B


3 X 4 OP VALVE
THREADED COLLAR
FILL PIPE
VALVE BODY ASSEMBLY
DROP TUBE CLAMP
FLOAT ASSEMBLY
DROP TUBE

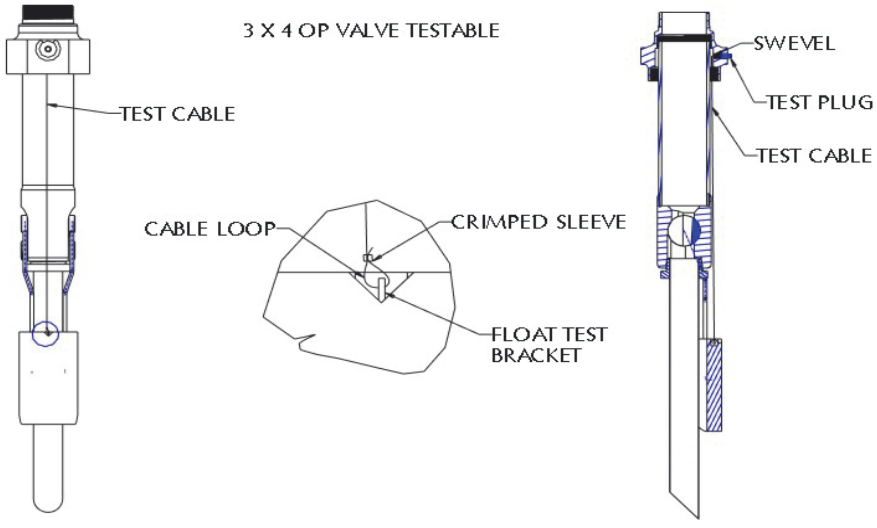
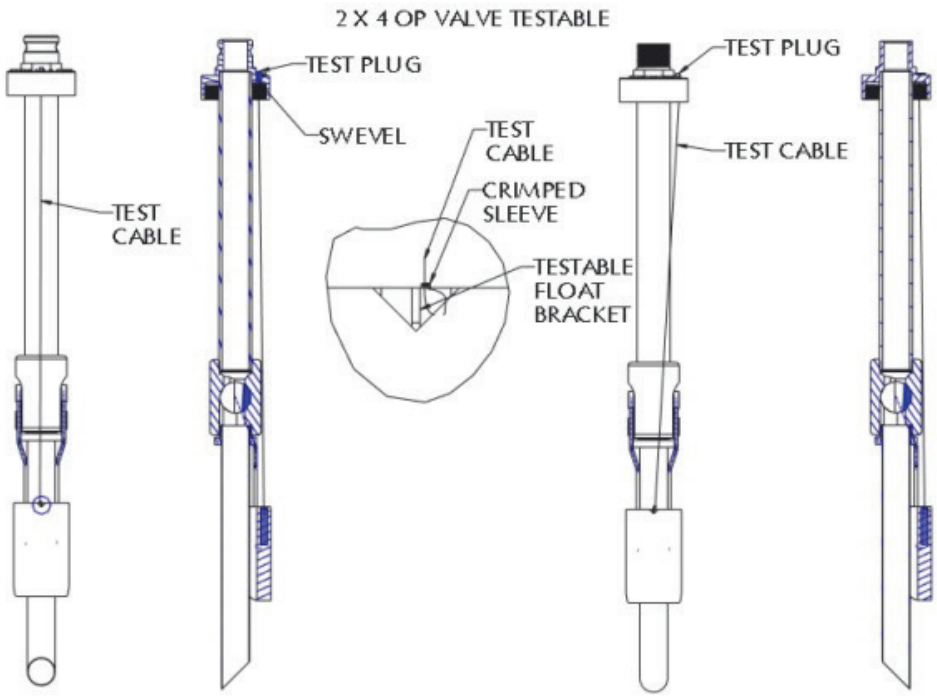

3 X 4 OP VALVE TESTABLE
TEST CABLE
CABLE LOOP
CRIMPED SLEEVE
FLOAT TEST BRACKET
SWEVEL
TEST PLUG
TEST CABLE

Figure 3A


2 X 4 OP VALVE TESTABLE
TEST PLUG
SWEVEL
TEST CABLE
CRIMPED SLEEVE
TESTABLE FLOAT BRACKET
TEST CABLE
TEST PLUG
TEST CABLE

TESTABLE OVERFILL EQUIPMENT INSPECTION REPORT						
Facility Name:			Owner:			
Address:			Address:			
City, State, Zip Code:			City, State, Zip Code:			
Facility I.D. #:			Phone #:			
Testing Company:			Phone #:		Date:	
Product Grade						
Tank Number						
Tank Volume, Gallons						
Tank Diameter, inches						
Overfill Prevention Device Brand						
Serial Number						
AUTOMATIC SHUTOFF DEVICE INSPECTION						
1. Drop Tube and float mechanisms are free of debris?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2. Float moves freely without binding?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3. Flapper is adjusted to shut off flow at 95% capacity?*	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
A "No" to any item in Lines 1-3 indicates a test failure.						
Test Results	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail
* Use manufacturer's suggested procedure for determining if automatic shutoff device will shut off flow at 95% capacity.						
Comments:						

Tester Name _____ Tester Signature _____

Testing Procedure

1. Remove overfill prevention valve from tank.
2. Loosen pipe plug on top of adaptor and pull with sufficient force away from adaptor.
3. Check to make sure float moves 90 degrees without obstruction. See Figures 1.1 for open position and 1.2 for closed position.
4. Replace pipe plug back into threaded hole.
5. Replace overfill prevention valve into tank. See installation instructions for step-by-step directions.

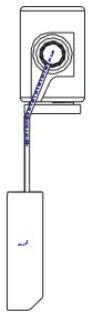


Figure 1.1

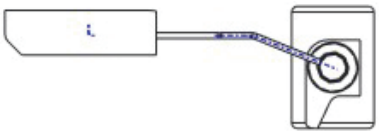


Figure 1.2

Other AST Products
Available From
Clay & Bailey

UL2583 Listed
Emergency Vents
Spill Containment Boxes
Pressure/Vacuum Vents

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