

NEW!

NEW!

“1 SIZE FITS ALL!”

AST Overfill Prevention Valve



2" x 4"

1228-03-2024 ALL



2" x 4"

1228-03-2025 ALL



3" x 4"

1228-03-3524 ALL



3" x 4"

1228-03-3525 ALL

UL 2583 Listed!

C  US

Patent #5,531,247

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A CENTURY'S WORTH OF INNOVATION

Clay & Bailey Mfg. Co.

01228-03-2024ALL Overfill Prevention Valve For Aboveground Storage Tanks



2024ALL

U.S. Patent #5,531,247

Features

Designed for AST's requiring high GPM flow rate, having a 4" NPT opening. The 01228-03-2024ALL was designed to be custom fit in the field. The 2024All can easily install in a 4" opening. Flow rate is over 200 gallons per minute at 40 psi. The 01228-03-2024ALL is rated for fuel delivery up to 100 psi and provides positive fuel shut off at high fill rates. Entirely mechanical in operation, the 01228-03-2024ALL can be used in remote fill applications, retrofitted to an existing AST. The 2" NPT fill opening allows easy connection to piping or cam fittings.

Can be used in gravity filling installations, as no minimum operating pressure is required.

Clay & Bailey Overfill Prevention Valves can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.

C&B 01228-03-2024ALL

Supplied with:

2" Cam Adaptor collar for a liquid tight fill connection.

01228-03-2054 2" Dust Cap

01228-03-5096 8ft Drop Tube

*Applicable for fuels other than #5 and #6 fuel oils. Consult factory for special applications.



Now UL 2583 Listed

Clay & Bailey Overfill Prevention Valves comply with PEI RP200, RP600, UFC, IFC and Florida DEQ.



Clay & Bailey Mfg. Co.



A CENTURY'S WORTH OF INNOVATION

01228-03-2025ALL Overfill Prevention Valve For Aboveground Storage Tanks



2025ALL

U.S. Patent #5,531,247

C&B 01228-03-2025ALL

Supplied with:

2" Male threaded collar for connection to piping

01228-03-5096 8Ft Drop Tube

*Applicable for fuels other than #5 and #6 fuel oils. Consult factory for special applications.

Features

Designed for AST's requiring high GPM flow rate, having a 4" NPT opening. The 01228-03-2025ALL was designed to be custom fit in the field. The 2025All can easily install in a 4" opening. Flow rate is over 200 gallons per minute at 40 psi. The 01228-03-2025ALL is rated for fuel delivery up to 100 psi and provides positive fuel shut off at high fill rates. Entirely mechanical in operation, the 01228-03- 2025ALL can be used in remote fill applications, retrofitted to an existing AST. The 2" NPT fill opening allows easy connection to piping or cam fittings.

Can be used in gravity filling installations as no minimum operating pressure is required.

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A CENTURY'S WORTH OF INNOVATION

Clay & Bailey Mfg. Co.

01228-03-3524ALL Overfill Prevention Valve For Aboveground Storage Tanks



3524ALL

U.S. Patent #5,531,247

C&B 01228-03-3524ALL

Supplied With:

3" Cam Adaptor collar for a liquid tight fill connection.

1228-03-3054 3" Cam Lock Dust Cap

1228-03-5096 8 Ft Drop Tube

***Applicable for fuels other than #5 and #6 fuel oils. Consult factory for special applications.**

Features

Designed for AST's requiring high GPM flow rate, having a 4" NPT opening. The 01228-03-3524ALL was designed to be custom fit in the field. The 3524All can easily install in a 4" opening. Flow rate is over 300 gallons per minute at 40 psi. The 01228-03-3524ALL is rated for fuel delivery up to 100 psi and provides positive fuel shut off at high fill rates. Entirely mechanical in operation, the 01228-03-3524ALL can be used in remote fill applications, retrofitted to an existing AST. The 3" NPT fill opening allows easy connection to piping or cam fittings.

Can be used in gravity filling installations as no minimum operating pressure is required.

Clay & Bailey Overfill Prevention Valves can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.



Now UL 2583 Listed

Clay & Bailey Overfill Prevention Valves comply with PEI RP200, RP600, UFC, IFC and Florida DEQ.



Clay & Bailey Mfg. Co.



A CENTURY'S WORTH OF INNOVATION

01228-03-3525 ALL Overfill Prevention Valve For Aboveground Storage Tanks



3525ALL

U.S. Patent #5,531,247

Features

Designed for AST's requiring high GPM flow rate, having a 4" NPT opening. The 01228-03-3525ALL was designed to be custom fit in the field. The 3525All can easily install in a 4" opening. Flow rate is over 300 gallons per minute at 40 psi. The 01228-03-3525ALL is rated for fuel delivery up to 100 psi and provides positive fuel shut off at high fill rates. Entirely mechanical in operation, the 01228-03-3525ALL can be used in remote fill applications, retrofitted to an existing AST. The 3" NPT fill opening allows easy connection to piping or cam fittings.

Can be used in gravity filling installations as no minimum operating pressure is required.

Clay & Bailey Overfill Prevention Valves can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.

C&B 01228-03-3525ALL

Supplied With:

3" Male threaded collar for connection to piping.

1228-03-5096 8 Ft Drop Tube

**Applicable for fuels other than #5 and #6 fuel oils. Consult factory for special applications.*



Now UL 2583 Listed

Clay & Bailey Overfill Prevention Valves comply with PEI RP200, RP600, UFC, IFC and Florida DEQ.



Overfill Prevention Valve Installation Instructions

WARNING

THIS VALVE IS USED AS A 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 OF OPERATE SUCCESSFULLY. FAILURE TO MEET THIS STANDARD MAY CAUSE DAMAGE TO THE VALVE.

WARNING

MODIFICATIONS TO THE INSTRUCTIONS LISTED BELOW WILL VOID THE WARRANTY AND POSSIBLY CAUSE AN UNSTABLE SITUATION DURING OPERATION.

1. Remove packing while holding the float stable.
2. Check to make sure no damage was done during shipping. Inspect the functionality of the float and valve by lifting up to float, making sure it doesn't bind, and checking that the valve opens.
3. Establish the correct Shut Off Height for the tank. Figure 1 A
4. Establish the correct Riser Pipe Height for the tank. If there is a Spill Containment Box look at Figure 1 B 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 2 A
WARNING: Do not use excessive thread sealant. This may result in valve malfunction.
WARNING: Do not use any wrenches on any part of the valve body. This will void the warranty.
10. Scribe on the collar the direction of the float, and align the arrow on the collar towards the centerline of the tank and away from walls or other obstructions.
WARNING: If float is not aligned in a direction where it will have free movement from open to close, this device will fail to operate, over filling the tank may result.
11. Make sure the Overfill Valve is secure before filling.
12. Place warning decal, (included with valve), on the tank where it is readily visible.
13. Record serial number located the body and call for any further questions.

Operating Procedures:

WARNING

THE 1228 2", 3", AND 4" OP-SERIES VALVES ARE DESIGNED FOR LIQUID TIGHT FILL OPERATION AND MUST BE USED WITH PROPER CONNECTIONS. FAILURE TO PROPERLY CONNECT AND/OR DISCONNECT THE DELIVERY HOSE WILL RESULT IN AN EXTREMELY DANGEROUS SITUATION!

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE OPERATING THIS DEVICE.

Before filling:

1. Insure that the bypass valve on the transport pump is working properly.
2. Do not exceed 100 psig delivery pressure.
3. Inspect delivery hose and fittings for wear and damage.
4. A dry break coupling or cam-lock type coupling is required for delivery.
5. After hooking up the delivery hose, visually inspect the connections.
6. If any leakage is discovered during or after the delivery, discontinue use and repair or replace.

Warning: Do Not Take the Tank Level by Sticking the Tank Through the Fill Valve!!!
 This Could Damage the Valve and Prevent It from Operating Properly!!!

Filling and Disconnection Process:

1. Connect the delivery coupler to the valve fill adaptor.
2. Make sure the nozzle or isolation valve is completely closed.
3. Turn pump on.
4. Slowly open the nozzle or isolation valve.
5. Monitor the tank liquid level at all times during the fill.
6. Observe delivery hose and connections, and listen to the pump for signs that the valve has closed,
7. When shut off is detected, close the nozzle or isolation valve and shut off the delivery pump.
8. Reopen the nozzle/isolation valve and allow 5 minutes for the pressure in the line to drop.

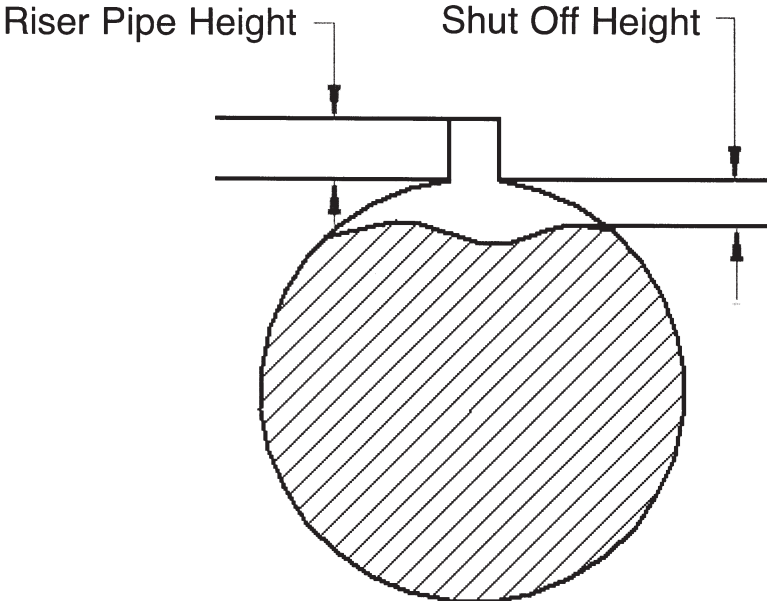
ATTEMPTING TO DISCONNECT THE COUPLER WITH PRESSURE IN THE LINE COULD RESULT IN THE RELEASE OF PRODUCT!

9. Close the nozzle/isolation valve and slowly disengage the delivery coupling, replace cap.

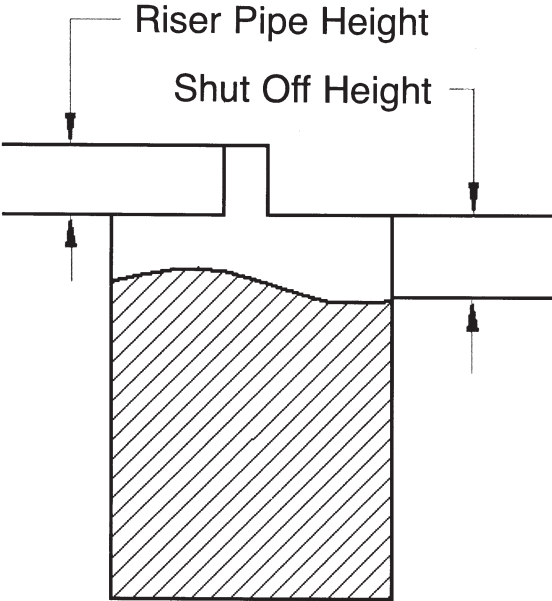
Warning: Do Not Take the Tank Level by Sticking the Tank Through the Fill Valve!!!
 This Could Damage the Valve and Prevent It from Operating Properly!!!

Diagrams:

Figure 1 A



| Round Horiz. Tank Height | 90% Shut off Height | 95% Shut off Height |
|--------------------------|---------------------|---------------------|
| 36" | 30.4" | 32.5" |
| 48" | 40.5" | 43.4" |
| 60" | 50.6" | 54.2" |
| 72" | 60.8" | 65.1" |
| 96" | 81.1" | 86.6" |



| 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" |

NOTES AND CALCULATIONS

Figure 1 B

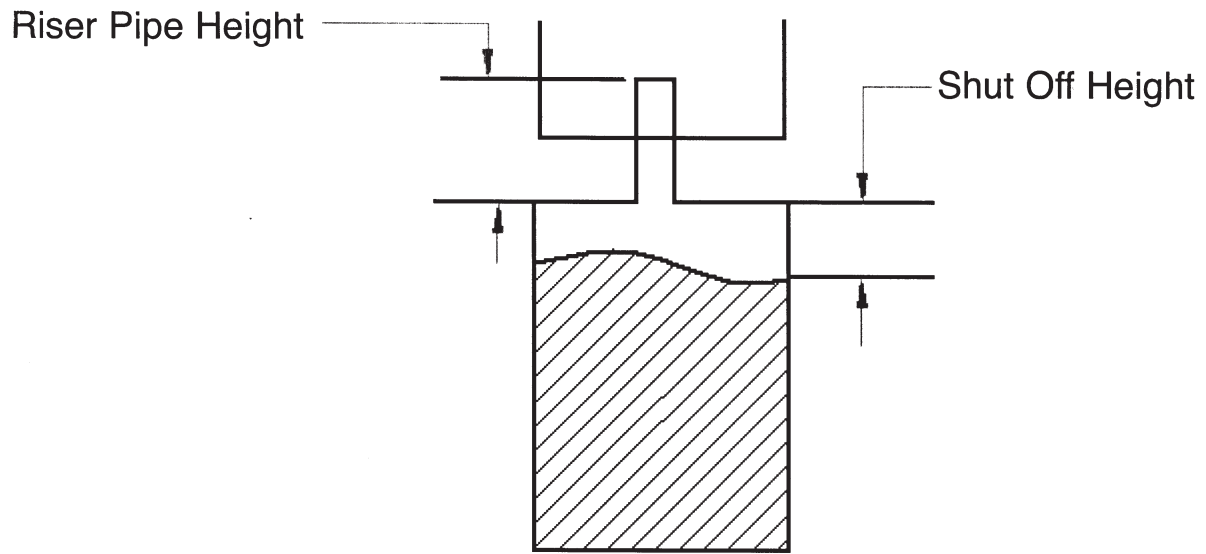
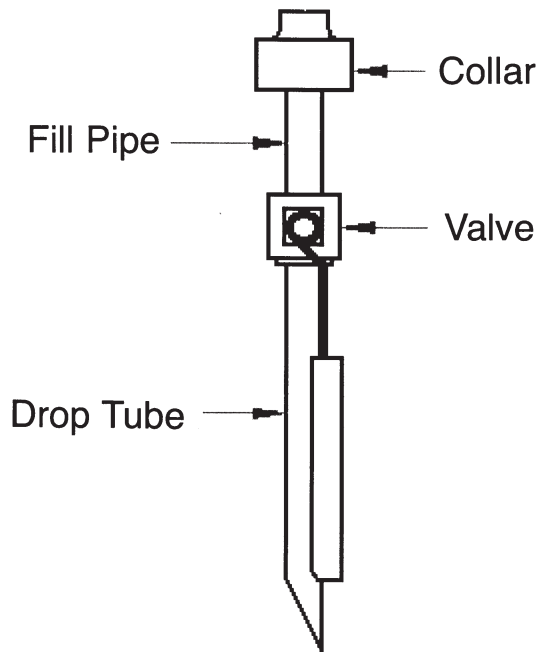


Figure 2



Clay & Bailey Mfg Co Overfill Prevention Valve Fuel Delivery Information

During the filling process, once the tank contents starts to near the safe fill level, the float arm of the overfill protection valve starts to rise. As the float starts to rise, the flow rate through the overfill protection valve commences to be restricted. The degree of restriction to the filling flow rate will increase up to the point of closure of the overfill protection valve.

The tanker driver will experience a reduction in the pumping flow rate when filling the tank, once the tank nears its safe fill level. Once this flow rate is restricted the driver should reduce the pumping rate when filling the last 25% of the tank capacity.

Continuing to pump at the full rate will cause back pressure in the fill line, and it will appear as though the tank cannot be filled any further.

Should the tanker driver experience a significant reduction in the filling rate of the tank as the contents reaches the safe fill level the driver should stop pumping and allow the contents of the tank to settle for 5 or 10 minutes

Turbulence is created within the tank as liquid is being pumped into the unit. A slight wave effect can be caused by this filling turbulence. This turbulence can result in the float on the overfill protection valve to flutter as the safe fill level is close to being reached. This fluttering can result in the overfill protection valve to close and open, thus resulting in a further restriction to filling the tank.

By allowing the contents of the tank to settle, this overcomes any potential problem caused by turbulence within the tank.

The tanker pto pump does not have to be run at full speed to ensure a speedy fuel delivery. Increased pressure in the fill tube will only result in problems with filling as the safe fill level is close to being reached. The tanker driver should run the pto pump as slowly as possible during the final stages of the filling process.

By doing so the tank filling process will be completed without any undue restrictions to the filling speed.

Products for Aboveground Storage Tanks

- * UL + ULC Listed Overfill Prevention Valves
- * Spill Containment Boxes
- * Emergency Vents
- * Pressure/Vacuum Vents
- * Free Flow Vents
- * Anti Syphon Valves
- * Sight Gauges
- * Audible Alarms
- * Fillcaps, Pipe Plugs, Bushings

Products for Underground Storage Tanks

- * Anodes
- * Special UR Recognized Gaskets
- * Manways