

**2"x 2" and 2"x 4"  
OVERFILL PREVENTION VALVE**



**1228-03-2200**

**NOW  
UL  
LISTED**

**Patented**



**1228-03-2400**



**CLAY & BAILEY MANUFACTURING COMPANY**

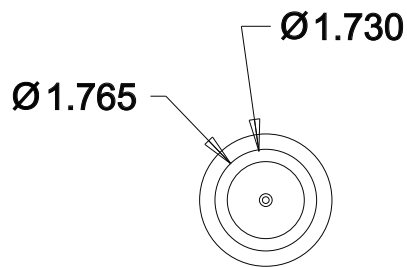
6401 East 40th Street  
Kansas City, Mo. 64129

Phone: 1-800-821-6583, 1-816-924-3900

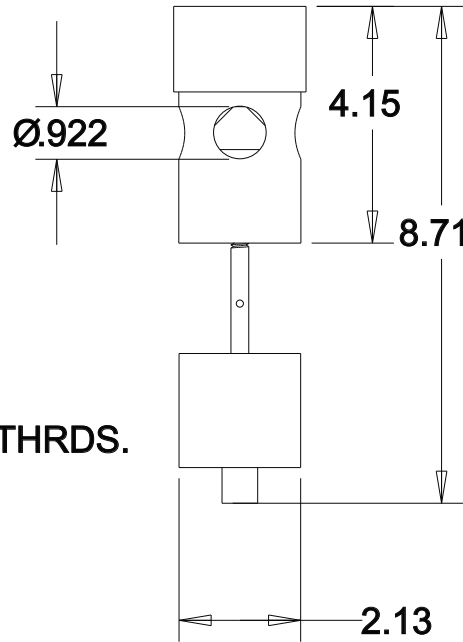
Fax: 1-816-924-3903

E-Mail: [candbmf@claybailey.com](mailto:candbmf@claybailey.com) [www.claybailey.com](http://www.claybailey.com)

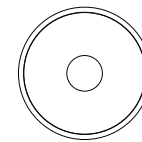
Patent Pending



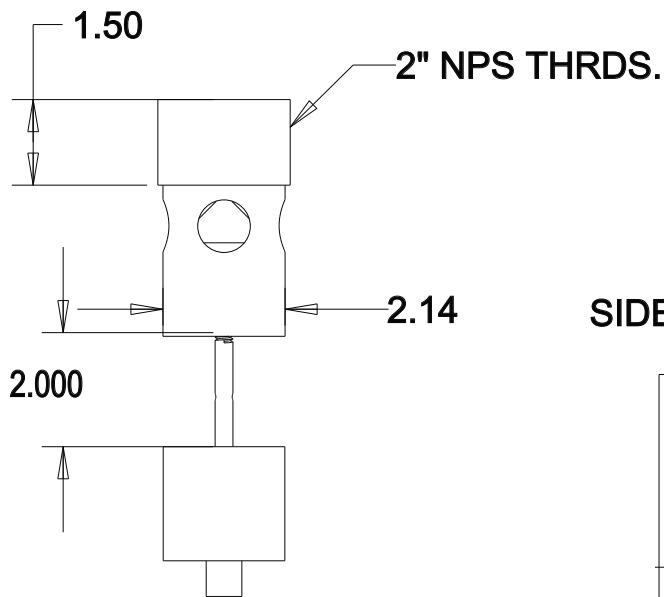
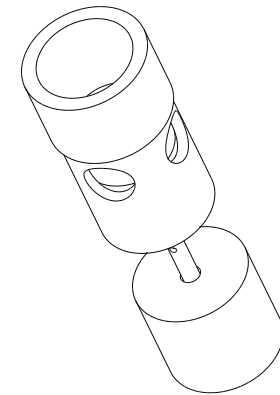
TOP VIEW



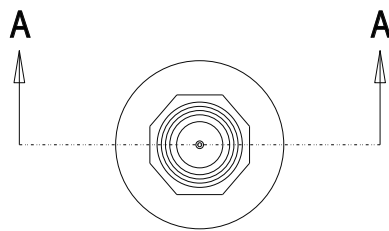
SIDE VIEW



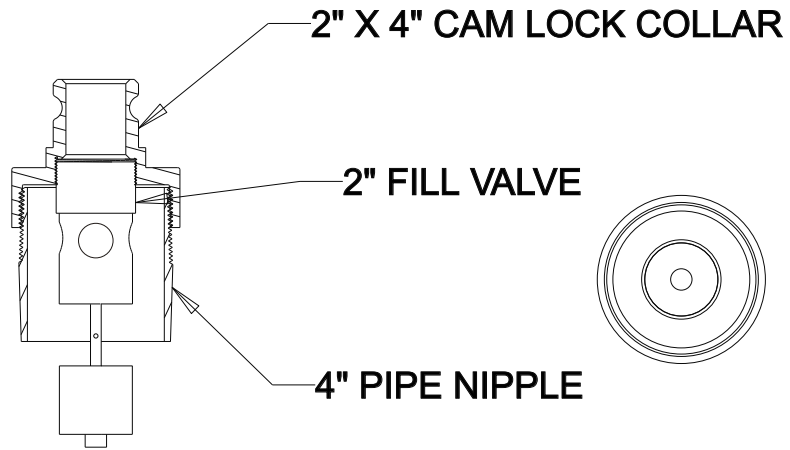
BOTTOM VIEW



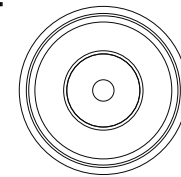
		<b>CLAY &amp; BAILEY MFG. CO.</b>	
		<b>2" FILL SHUT OFF VALVE</b>	
		01228-03-2200	
		DATE:10/25/05	



**TOP VIEW**



**SECTION A-A**



**BOTTOM VIEW**

		<b>CLAY &amp; BAILEY MFG. CO.</b>	
		<b>2" FILL VALVE W/ 2" X 4" CAM LOCK COLLAR</b>	
		<b>01228-03-2400</b>	
		<b>DATE:8/15/05</b>	

## Installation Instruction for the 1228-03-2200 Overfill Prevention Valve:

**CAUTION**

1. Remove packing while holding the float stable.

**CAUTION**

**Care should be taken when performing step 1 to prevent damage to the float!**

2. Record serial number stamp on the side of the valve for future reference.
3. Guide the float through the 2" NPT threaded opening in the tank then the valve body, **be careful not damage the threads or cross thread.**
4. Turn the valve body clockwise to thread into the 2" NPT opening.
5. Tighten the valve with a wrench, **be careful not to place the wrench jaws on the valve body**, but on the hex of the connector. **Do not over tighten!**

**CAUTION**

**This unit is to be used with a closed fill, liquid tight connection only.  
Do not fill with a regular nozzle, splash back will occur.**

## Installation Instruction for the 1228-03-2400 Overfill Prevention Valve:

**CAUTION**

1. Remove packing while holding the float stable.

**CAUTION**

**Care should be taken when performing step 1 to prevent damage to the float!**

2. Record serial number stamp on the side of the valve for future reference.
3. Guide the float through the 4" NPT threaded riser pipe in the tank, **being careful not damage the threads or cross thread.**
4. Turn the 4" Collar clockwise onto threaded 4" NPT riser pipe.
5. Tighten the valve with a wrench, **be careful not to place the wrench jaws on the collar threads**, but on the hex of the connector. **Do not over tighten!**

**CAUTION**

**This unit is to be used with a closed fill, liquid tight connection only.  
Do not fill with a regular nozzle, splash back will occur.**

## New from Clay & Bailey Mfg. Co.

Clay & Bailey introduces the solution to  
The problems of:  
Restricted height Genset tanks with low storage capacity  
Installing an Overfill Prevention Valve into a 2" opening  
Preventing expensive overfilling of AST's  
Unreliable whistle/vent alarms

The #1228-03-2200 2" and 1228-03-2400 2" x 4" Overfill Prevention Valve

Have these outstanding design features:

Installs in a 2" NPT (1228-03-2200 model) or

4" NPT (1228-03-2400 model) opening

Accepts pressure delivery of product

Provides GenSet tanks with large fuel storage capacity a shutoff height

Provides positive shut off of fuel

Retro-fits to an existing AST

Mechanical in operation---no user interface required

Compatible with fuels (Consult factory for your specific product)

Minimum 5 PSI operating pressure required

## Operating Procedures:



**THIS VALVE IS 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. Inspect delivery hose and fittings for wear and damage.
3. A dry break coupling or cam-lock type coupling is required for delivery.
4. After hooking up the delivery hose, visually inspect the connection.
5. Verify downstream piping is connected and tight.
6. If any leakage is discovered during or after delivery, discontinue use and repair or replace damaged parts.

### **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 on the pump.
4. Slowly open the nozzle or isolation valve.
5. Monitor the tank liquid level at all times during 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 pressure in the line to drop.



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

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

## Products for Aboveground Storage Tanks

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

## Products for Underground Storage Tanks

Anodes  
Special UR Recognized Gaskets  
Manways





## Typical Shut Off Heights and Capacities of Aboveground Storage Tanks

### Installation of the #1228-03-2200 O P Valve

Configuration: 2" Opening; direct installation into weld flange; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Rectangle	32"	29"	90"
Rectangle	34"	31"	91"
Rectangle	36"	33"	92"
Rectangle	42"	39"	93"
Rectangle	48"	45"	94"
Rectangle	54"	51"	95"
Rectangle	60"	57"	95"

### Installation of the #1228-03-2200 O P Valve

Configuration: 2" Opening; direct installation into weld flange; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Round	32"	29"	95%
Round	34"	31"	95%
Round	36"	33"	95%
Round	42"	39"	95%
Round	48"	45"	97%

### Installation of the #1228-03-2200 O P Valve

Configuration: 2" Opening; direct installation into weld flange; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Obround	27" x 44"	41"	95%

### Important Information for the Filling Operation

1. Always use a liquid tight connection for filling an AST
2. Product surge/wave action may occur during filling of an AST
3. Always consult the factory for installation configurations

The #1228-03-2200 & #1228-03-2400 is designed for use with gasoline, diesel, #2 heating oil and other lightweight liquids. Always consult the factory for approval to use these overfill prevention valves in any other type of product.

## Typical Shut Off Heights and Capacities of Aboveground Storage Tanks

### Installation of the #1228-03-2400 O P Valve

Configuration: 4" Opening; 5" high pipe nipple; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Rectangle	12"	10.8"	90"
Rectangle	14"	12.6"	90"
Rectangle	16"	14.4"	90"
Rectangle	24"	22.8"	95"
Rectangle	30"	28.6"	95"
Rectangle	36"	34.2"	95"

### Installation of the #1228-03-2400 O P Valve

Configuration: 4" Opening; 6" high pipe nipple; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Rectangle	12"	11.4"	95"
Rectangle	14"	13.3"	95"
Rectangle	16"	15.2"	95"

### Installation of the #1228-03-2400 O P Valve

Configuration: 4" Opening; 5" high pipe nipple; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Round	12"	11"	90%
Round	14"	12"	90%
Round	16"	14"	90%
Round	24"	23"	95%
Round	30"	27"	95%
Round	36"	33"	95%

### Installation of the #1228-03-2400 O P Valve

Configuration: 4" Opening; 6" high nipple; single wall top of tank

<u>AST Style</u>	<u>AST Height</u>	<u>Shut Off Height</u>	<u>% Capacity</u>
Round	14"	13.3"	95%
Round	16"	15.2"	95%

### Important Information for the Filling Operation

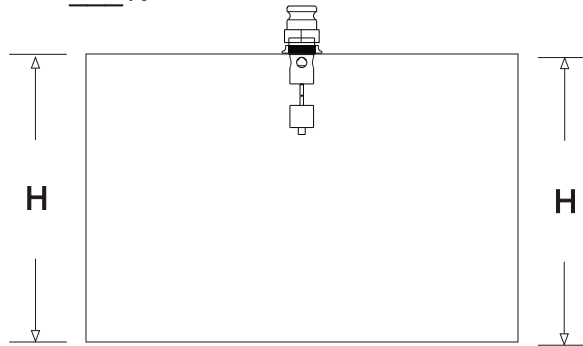
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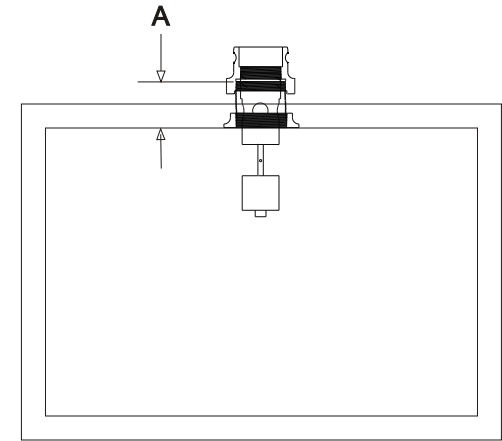
IF YOUR AST MEASUREMENTS ARE NOT SHOWN ON PAGES 7 & 8 FILL IN THE BLANKS OF THE APPROPRIATE SECTION TO SIZE YOUR OVERFILL PREVENTION VALVE.

**SINGLE WALL RECTANGULAR TANKS**

1. WHAT IS HEIGHT OF THE TANK (H) = \_\_\_ INCHES.
2. WHAT IS THE PERCENT OF SHUT OFF? \_\_\_%



**SINGLE WALL TANK**



**DOUBLE WALL TANK**

**DOUBLE WALL RECTANGULAR TANKS**

1. WHAT IS THE HEIGHT OF THE RISER FROM THE PRIMARY TANK TO THE TOP OF RISER PIPE COUPLING? A = \_\_\_\_\_ INCHES
2. WHAT IS A THE HEIGHT OF THE PRIMARY TANK? (H) = \_\_\_ INCHES
3. WHAT IS THE PERCENT OF SHUT OFF? \_\_\_%

IS THERE A SPILL CONTAINMENT BOX IN THE INSTALLATION? YES / NO

**CLAY & BAILEY MFG. CO.**

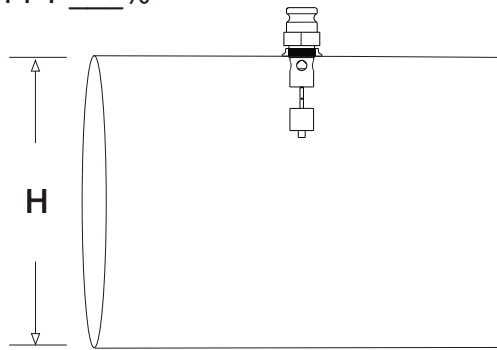
**MEASUREMENTS  
FOR THE 1228-03-2200 & 2400**

DATE:01/13/06

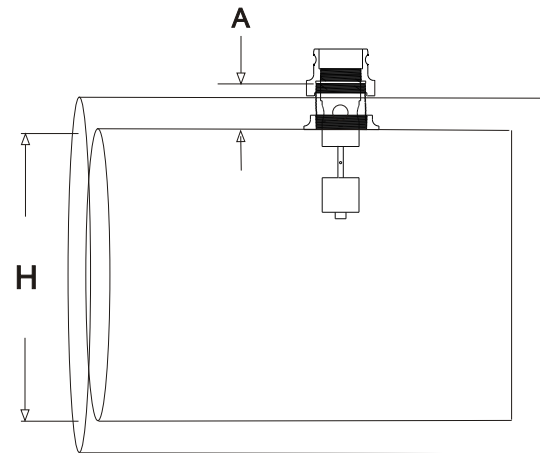
IF YOUR AST MEASUREMENTS ARE NOT SHOWN ON PAGES 7 & 8 FILL IN THE BLANKS OF THE APPROPRIATE SECTION TO SIZE YOUR OVERFILL PREVENTION VALVE.

**SINGLE WALL ROUND TANKS**

1. WHAT IS HEIGHT OF THE TANK (H) = \_\_\_ INCHES.
2. WHAT IS THE PERCENT OF SHUT OFF? \_\_\_%



**SINGLE WALL TANK**



**DOUBLE WALL TANK**

**DOUBLE WALL ROUND TANKS**

1. WHAT IS THE HEIGHT OF THE RISER FROM THE PRIMARY TANK TO THE TOP OF RISER PIPE COUPLING? A = \_\_\_\_\_ INCHES
2. WHAT IS A THE HEIGHT OF THE PRIMARY TANK? (H) = \_\_\_ INCHES
3. WHAT IS THE PERCENT OF SHUT OFF? \_\_\_%

IS THERE A SPILL CONTAINMENT BOX IN THE INSTALLATION? YES / NO

**CLAY & BAILEY MFG. CO.**

**MEASUREMENTS  
FOR THE 1228-03-2200 & 2400**

DATE:01/13/06