Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)
Form Title: Storage Tank Equipment Registration Form
Effective Date: July 2019
Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: Clay and Bailey Mfg. Co.
Contact Name: Boris Bajic
Company Address: 6401 E. 40th Street
City, State: Kansas City, MO
Zip: 64129
E-mail: bbajic@claybailey.com
Contact Number: 816-924-3900
Product Name: GenX 01228-03-45XXYY, 46XXYY and 47XXYY Series Overfill Protection Valves; "T" at the end is for testable option
Model Number(s): GenX 01228-03-45XXYY, 46XXYY and 47XXYY
Product Type: Overfill Protection Devices
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: 62-762.501 (2)(e), F.A.C.

Write a brief description of equipment registration request including product limitations:

The Clay & Bailey Overfill Protection Valve GenX 01228-03-45XXYY, 46XXYY and 47XXYY, UL File No. MH25085 Overfill Protection Devices for storage tank systems is utilized in the pressurized fill connection applications. The valve prevents tank overfills by shutting off when the liquid level reaches predetermined level, typically at 90 to 95% of tank capacity. The valve eliminates hazardous liquid spills when installed in accordance with manufacturer's installation instructions.

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

		Yes	No	N/A
1.	Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	✔		
2.	Documentation of third-party evaluation that the equipment meets DEP Rules?	✔		
3.	Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	✔		
4.	Technical information and drawings included?	✔		
5.	Installation instructions included?	✔		
6.	Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	✔		
7.	Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?		✔	
8.	Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	✔		
9.	Has the product been approved or registered in other countries or states? (If so provide list)	✔		
10.	Any requirements for company-certified installers or trainers?		✔	
11.	Was this product(s) previously approved or registered by the Department? If yes, EQ-_____		✔	
12.	Any changes or modifications to the equipment since the last submittal to DEP?			✔

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

The Clay & Bailey Overfill Protection Valve GenX 01228-03-45XXYY, 46XXYY and 47XXYY, UL File No. MH25085 Overfill Protection Devices for storage tank systems must be installed and tested in accordance with Installation Instruction prior to being placed into service and recorded in accordance with Rule 62-762.711, F.A.C, requirements.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Boris Bajic, Engineering Manager — Printed Name and Title
Signature (right click to sign)
05/15/2025 — Date

For Department Use Only:

Date Application Received: 05/15/2025
Application complete: Yes: ✔ No:

EQ- 1027
Date of complete or incomplete letter sent: 05/27/2025
Date Equipment Requires Renewal: 05/27/2030

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.

Certificate of Compliance

Certificate Number:

UL-US-L25085-12501-71507102-2

Report Reference:

MH25085-20170517

Issue Date:

2025-04-30

Issued to:

CLAY & BAILEY MFG CO
6401 E 40Th St Kansas City, MO 64129-1711
United States

This certificate confirms that representative samples of:

EGVV - Tank Accessories for Flammable and Combustible Liquids

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

ANSI/CAN/UL/ULC 2583:2021, Ist Ed., Issue Date: 2021-12-08

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

David Piecuch
UL Mark Certification Program Owner

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at https://www.ul.com/contact-us.

CERTIFICATE OF COMPLIANCE

Certificate number	UL-US-L25085-12501-71507102-2
Report reference	MH25085-20170517
Date	2025-04-30

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Automatic Pressure-filled type Overfill Protection Devices

Model(s): 01228-03-40XX @, 01228-03-41XX @
Model(s): GEN X OPV *01228-03-45XXYY* @

Overfill prevention devices

Model(s): 1228-03-2200, 1228-03-2400, 1228-03-2500, 2x4 OP, 3x4 OP, 4x6 OP

Certificate of Compliance

Certificate Number:

UL-CA-L25085-12531-71507102-2

Report Reference:

MH25085-20170517

Issue Date:

2025-04-30

Issued to:

CLAY & BAILEY MFG CO
6401 E 40Th St Kansas City, MO 64129-1711
United States

This certificate confirms that representative samples of:

EGVV7 - Tank Accessories for Flammable and Combustible Liquids Certified for Canada

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

ANSI/CAN/UL/ULC 2583:2021, Ist Ed., Issue Date: 2021-12-08

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

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Overfill prevention devices

Model(s): 1228-03-2200, 1228-03-2400, 1228-03-2500, 2x4 OP, 3x4 OP, 4x6 OP

Clay & Bailey Mfg. Co.

Fact Sheet

A CENTURY'S WORTH OF INNOVATION

Instructions are for various models, please make sure you are following instructions for the correct part number.

Installation and Operation Instructions for the GenX 1228-03-45XXYY, 46XXYY and 47XXYY models Overfill Prevention Valve:

CAUTION!

IMPORTANT INFORMATION – FOLLOW ALL INSTRUCTIONS

Read instructions carefully and follow the installation steps and operating procedures!
Failure to follow any of the warnings and instructions could result in a hazardous spill, and consequently in environmental contamination, property damage, fire, explosion, serious injury or death. The GenX series valves are designed for liquid tight fill operation and must be used with proper connections. Failure to properly connect or disconnect the delivery hose will result in a dangerous situation.

Warnings!

1. **Fire Hazard – Extremely dangerous situation including serious injury or death could result from spilled liquids.**
2. Any modification to this valve that does not follow these instructions will void the product warranty.
3. The valve shall be used with clean liquid only. Contamination suspended in the liquid may cause the valve to malfunction.
4. Minimum operating pressure is 5 psi.

U.S. Patent Pending
US 2023/0025926 A1
01228-00-4501

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5. Maximum fill pressure is 100 psi.
6. This valve shall not be the only overfill prevention system in a tank. The operator shall continuously monitor the tank level to prevent any spillage even with a properly functioning valve.
7. This valve is to be used with a closed fill, liquid tight connection only.
8. All delivery system fill lines, valves and devices must function properly and be correctly set prior to filling.
9. Install in accordance with all applicable local, state, and federal codes.
10. For your safety, it is important to follow applicable local, state, federal and/or OSHA rules for working around storage tank and piping area. Always use all required personal protective equipment.
11. Tank could be under pressure. Vapor could escape from tank piping, vents, valves or fittings during installation and catch fire or cause an explosion. Do not use hot tools or open flame, eliminate sparks or any source of ignition when working on valves and around tanks.
12. Fill points shall be properly labeled to identify the handled product according to all applicable codes.
13. **When not filling, install either camlock cap or threaded cap on the top of the collar or fill connection to protect valve internals from contaminants and exposure to environmental elements. The only time when the cap is removed is during filling.**
14. **Do not drop the valve as this could cause damage making it unable to operate properly.**

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The GenX Overfill Prevention Valve (OPV) is installed at the fill port of a storage tank. Designed for a tight fill application, the valve prevents tank overfills by closing product delivery when the liquid level reaches a pre-set level (typically 90%-95% full). The valve is installed through SCH 40 4" pipe nipple.

Installation

1. **Use all appropriate Personal Protective Equipment (PPE) before performing the job.**
2. Remove from packaging carefully to prevent damage to the valve. Check the valve for any shipping damage. If any is found contact the manufacturer.
3. Check for freedom of movement of the float sleeve and the valve piston by turning the valve upside down and confirming that the float sleeve and the piston moved to the shut position. The float sleeve and the piston should move freely. Set the valve upright and the float sleeve and the piston should move back to the open position. This is to ensure there is no binding inside the valve.
4. Record the serial number stamp on the side of the valve for future reference.
5. Thread the fill pipe (2" pipe nipple) into the camlock or threaded collar 2" NPT opening by hand tightening first. Then use a strap wrench and apply the correct number of wrench makeup turns to tighten. Similarly, thread the other end of the fill pipe into the valve body top 2" NPT opening by hand tightening first. Use the strap wrench and apply correct number of wrench makeup turns to tighten. **Be careful not to cross thread! Use a strap wrench only. Do not apply the wrench jaws directly to the valve body to avoid crushing the valve! This may damage the valve and cause malfunction. Do not overtighten! Refer to the table at the end for the correct number of wrench makeup turns.**

   (Using thread sealant between the valve body top, the fill pipe and the collar is NOT recommended.)
6. Adjust the float position by spreading the two float halves (held by the O-ring) apart and sliding along the valve float sleeve to the desired position for 90 or 95% tank fill. Let go off the halves. The internal rib in the float half should lock into the float sleeve groove. Make sure that the float is locked in the place on the sleeve. The valve can be set to the desired 90%, 95% or any other shut-off level providing a wide adjustment range of over 5" in 3/8" increments. **Be careful not to damage the float internal rib while sliding halves.**

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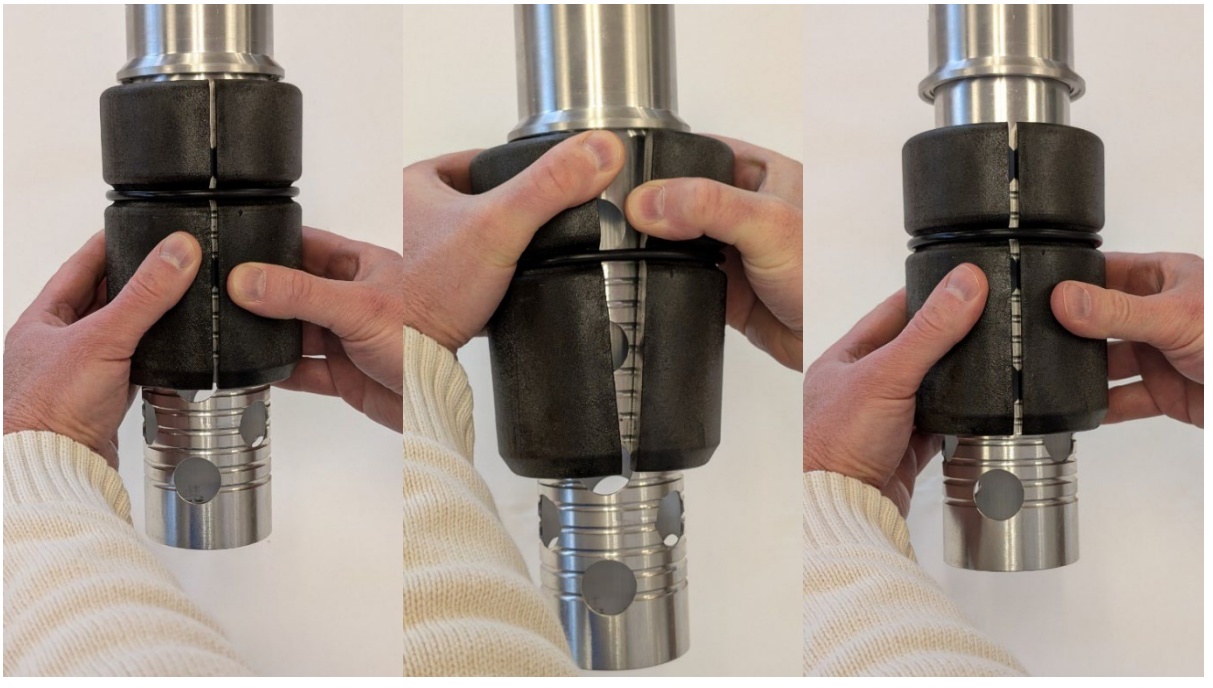
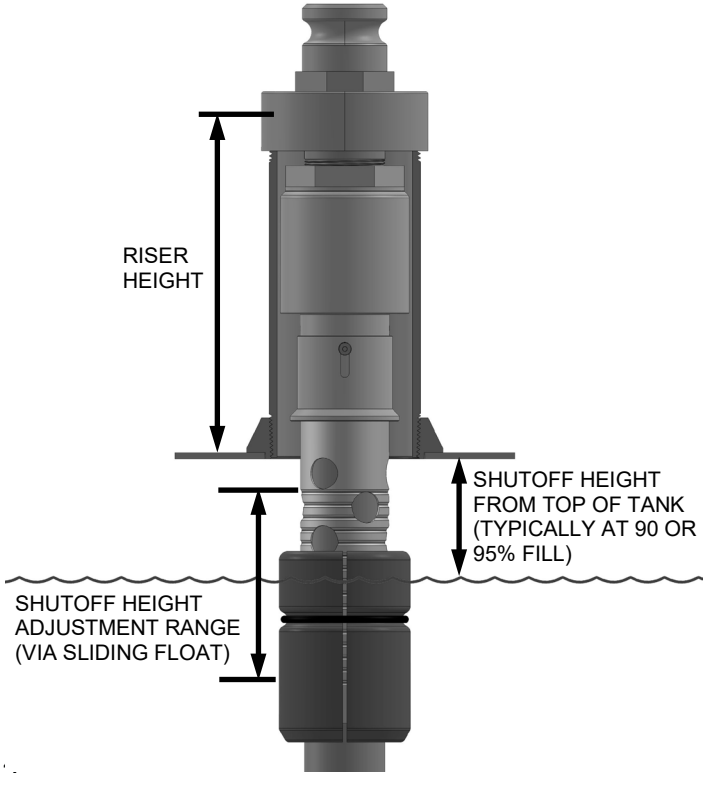
Clay & Bailey Mfg. Co.

Fact Sheet

A CENTURY'S WORTH OF INNOVATION



7. Apply fuel compatible thread sealant on male threads only to reduce the probability of sealant reaching the valve internals. **Use of excessive thread sealant may cause the valve to malfunction.**
8. Thread the drop tube into the bottom of the valve. 2” telescopic tube, recommended for taller tanks, consists of inner tube nested in outer tube. The drop tube threads directly on the valve body and extends to full length via gravity. Or thread 2” NPT SCH 40 pipe on the valve body for shorter tanks or use multiple pipe sections connected with standard 2” coupling for taller tanks.



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9. Inspect the inside of the riser pipe on the tank or spill containment box for burrs and obstruction that may interfere with the valve installation or cause damage to the valve during installation.
10. Guide the drop tube and float through the 4" NPT threaded riser pipe in the tank. **Do not force the valve through the opening. Be careful not to damage the float or threads.**
11. Turn the 4" camlock or threaded collar clockwise to thread onto the 4" NPT riser. **Be careful not to cross thread!**
12. Use the strap wrench and apply the correct number of wrench makeup turns to tighten the valve assembly to the riser pipe. Alternatively, apply a wrench to the hex of the camlock or threaded collar to tighten. 3" fill piping connects to the 2" NPT threaded collar via threaded or camlock reducer. **Do not overtighten!**

Models:

- 01228-03-4500 GenX Valve only (without fill pipe or drop tube)
- 01228-03-46XXYY GenX with 2" Camlock fill connection
- 01228-03-47XXYY GenX with 2" NPT Thread fill connection
- 01228-03-4410 Diffuser
- 01228-03-4415 3" Camlock to 2" NPT Reducer

(XX) – Fill Pipe Length
(YY) – Drop Tube Length
(T) – Testable option (at the end of the part number)

Before Filling

1. Ensure that the bypass valve on the transport pump is set and working properly.
2. Do not exceed 100 psi delivery pressure.
3. Inspect delivery hose and fittings for wear, damage and leaks.
4. A dry break coupling or camlock 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 delivery, discontinue use and repair or replace.

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Filling and Disconnecting

1. Connect the delivery nozzle equipped with the appropriate coupler to the fill adaptor and ensure secure connection.
2. Follow pump and meter OEM procedures.
3. Turn on the pumping system.
4. Slowly open the fill nozzle and start product transfer.
5. Monitor the tank liquid level and the filling process at all times.
6. Look for quick jerk of delivery hose caused by hydraulic shock that indicates the valve shut off has occurred.
7. Close the nozzle after the valve shut off occurred.
8. Turn off the pumping system.
9. Reopen the nozzle and wait for approximately 5 minutes to allow pressure in the line to drop.
10. Close the nozzle and disconnect the coupler.
11. Remove the nozzle and replace the fill connection cap.

Warnings!

Attempting to disconnect the hose coupler with pressure in the line could result in the release of product!

CAUTION!

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

NPT Thread Size	Number of Wrench Makeup Turns
2”	3
3”	2.25
4”	2.25

Hand tighten before applying the appropriate number of wrench makeup turns.

Due to variability of the thread form a tolerance of ±1 turn is allowed.

Overtightening may likely cause thread damage.

See the Manufactures’ Limited Warranty Statement

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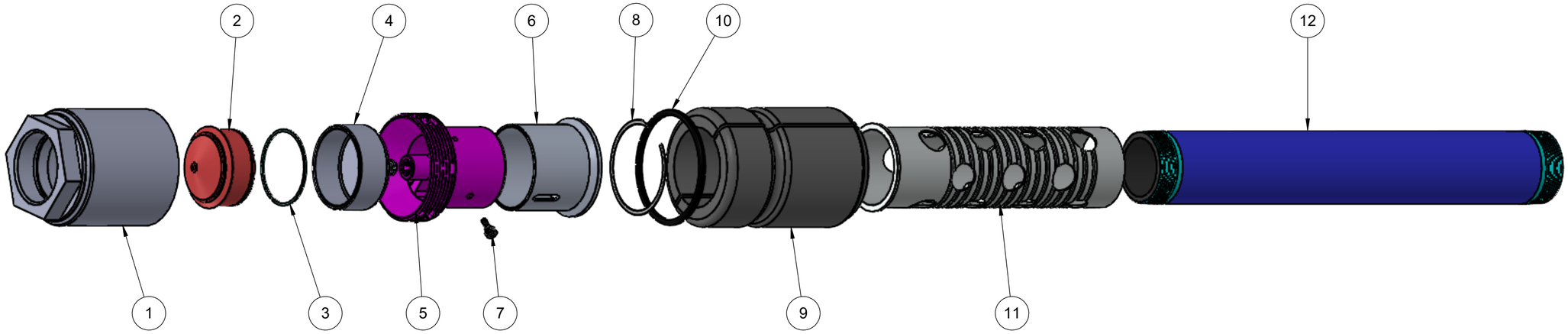
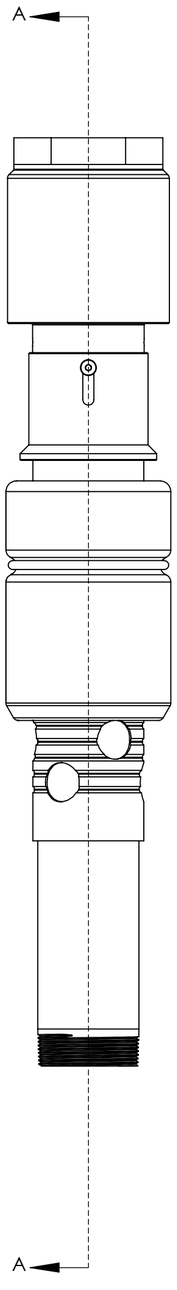
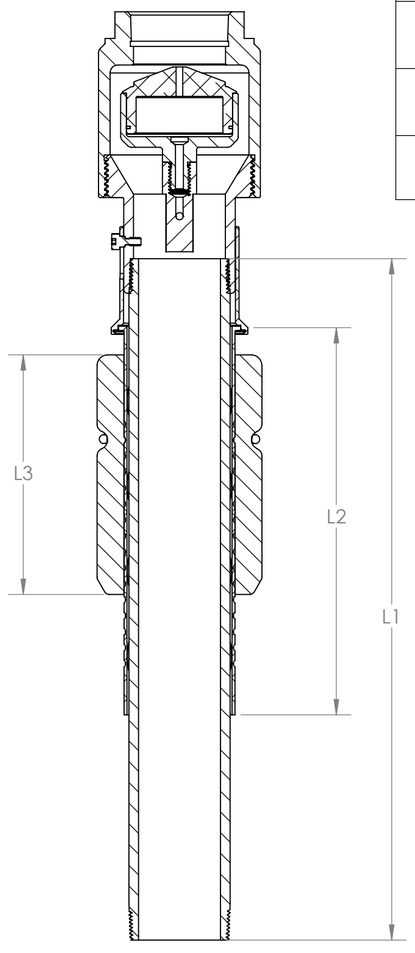
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED







SECTION A-A

DIMENSION	DESCRIPTION
L1	Length of Drop Pipe
L2	Length of Float Sleeve
L3	Length of Float

NOTES
1. L1 VARIES BASED ON TANK CONFIGURATION.
2. L2 VARIES BASED ON TANK CONFIGURATION AND FLOAT LENGTH (L3).
3. L3 VARIES BASED ON TANK CONFIGURATION AND BOUYANCY REQUIREMENTS.

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	01228-03-4401	UPPER BODY	ALUMINUM ALLOY	1
2	01228-03-4402	PISTON	ALUMINUM ALLOY	1
3	01228-05-4407	TEFLON BACKUP RING, SIZE 141	PTFE	1
4	01228-03-4403	PISTON CHAMBER	ALUMINUM ALLOY	1
5	01228-03-4404	LOWER BODY	ALUMINUM ALLOY	1
6	01228-03-4405	BODY SLEEVE	ALUMINUM ALLOY	1
7	0900-07-0006	#10-24 SHOULDER SCREW, SHOULDER 1/4" DIAMETER X 1/8" LENGTH, 3/8" THREAD LENGTH	STAINLESS STEEL	1
8	01228-07-4410	SINGLE-TURN SPIRAL INTERNAL RETAINING RINGS FOR 3" ID	STAINLESS STEEL	1
9	01228-13-4409	FLOAT	POLYURETHANE FOAM	2
10	01228-05-4408	FLOAT O-RING, SIZE 2-339, UL FILE #MH7332	NITRILE, COMPOUND #5747	1
11	01228-03-4406	FLOAT SLEEVE	ALUMINUM ALLOY	1
12	VARIOUS PART NUMBERS*	2" DROP PIPE NPT THREADS BOTH ENDS	ALUMINUM ALLOY	1

*Standard pipes of various lengths, SCH40 or SCH80 Aluminum (anodized or non-anodized); or SCH40 Steel (black or galvanized)

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
.X +/-0.100
.XX +/- 0.030
.XXX +/- 0.010
.XXXX +/- .0005
ANGLES +/- 0.5

APPROVALS		DATE
DRAWN:	KH	5DEC2023
CHECKED:	KH	10JAN2024
APPROVED:	BB	10JAN2024

MATERIAL: VARIOUS

CLAY & BAILEY MFG. CO.

TITLE: GenX OPV

DWG. NO.: 01228-03-45XXYY

SIZE: C

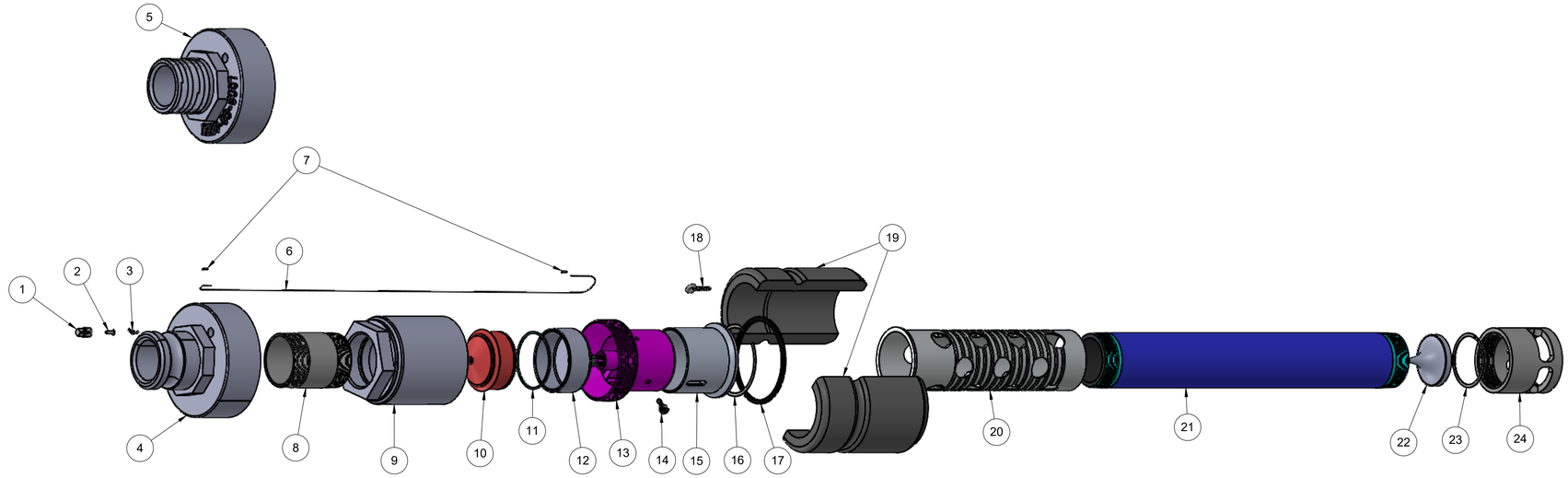
SCALE: 1:8

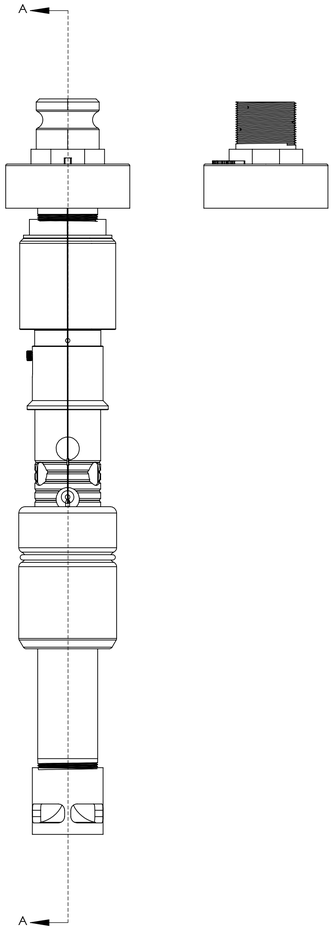
THIRD ANGLE PROJECTION

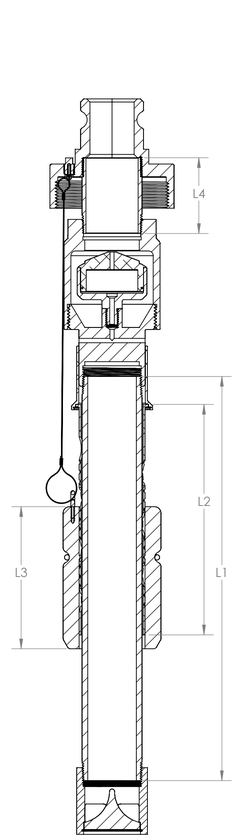
REV:

SHEET 1 OF 1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED







SECTION A-A

DIMENSION	DESCRIPTION
L1	Length of Drop Pipe
L2	Length of Float Sleeve
L3	Length of Float
L4	Length of Fill Pipe

NOTES
1. L1 AND L4 VARY BASED ON TANK CONFIGURATION.
2. L2 VARIES BASED ON TANK CONFIGURATION AND FLOAT LENGTH (L3).
3. L3 VARIES BASED ON TANK CONFIGURATION AND BOUYANCY REQUIREMENTS.

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	1/8 NPT Plug Fitting	Stainless Steel	1
2	Blind Rivet - 1/8" x 3/8" with Steel Mandrel	Aluminum Alloy	1
3	Barrel Swivel	Stainless Steel	1
4	2" x 4" Collar with 2" Camlock	Aluminum Alloy	1
5	2" x 4" Collar with 2" NPT Threads	Aluminum Alloy	1
6	Braided Wire Rope, 0.031" Diameter, 17" to 20" Length	Stainless Steel	1
7	Wire Rope Compression Sleeve for 0.031" Diameter Wire	Aluminum Alloy	2
8	Pipe Nipple - 2" Sch. 40 - NPT Threads Both Ends	Aluminum Alloy	1
9	Upper Body	Aluminum Alloy	1
10	Piston	Aluminum Alloy	1
11	Teflon Backup Ring	PTFE	1
12	Piston Chamber	Aluminum Alloy	1
13	Lower Body	Aluminum Alloy	1
14	#10-24 Shoulder Screw, Shoulder 1/4" Diameter x 1/8" Length, 3/8" Thread Length	Stainless Steel	1
15	Body Sleeve	Aluminum Alloy	1
16	Single-Turn Spiral Internal Retaining Ring for 3" ID	Stainless Steel	1
17	Float O-Ring Gasket	Nitrile Rubber	1
18	Routing Eyebolt, Trade Size 208	Stainless Steel	1
19	Float	Polyurethane Foam	2
20	Float Sleeve	Aluminum Alloy	1
21	2" Drop Pipe, NPT Threads Both Ends	Aluminum Alloy	1
22	Diffuser Cone, 2"	Aluminum Alloy	1
23	Spiral Internal Retaining Ring for 2-1/4" ID	Stainless Steel	1
24	Diffuser Body, 2" NPT Female	Aluminum Alloy	1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
.X +/-0.100
.XX +/- 0.030
.XXX +/- 0.010
.XXXX +/- .0005
ANGLES +/- 0.5

APPROVALS		DATE
DRAWN:	JJM	5DEC2023
CHECKED:	BB	10JAN2024
APPROVED:	BB	10JAN2024
MATERIAL: VARIOUS		

CLAY & BAILEY MFG. CO.

TITLE: GenX OPV WITH OPTIONS

DWG. NO.: 01228-03-46XXYY, 47XXYY, "T"
SIZE: D
SCALE: 1:3
THIRD ANGLE PROJECTION
REV:
SHEET 1 OF 1

Clay & Bailey Mfg. Co.

Fact Sheet

100 YEARS C&B

A CENTURY'S WORTH OF INNOVATION

GenX Overfill Prevention Valve (OPV)

The Clay & Bailey GenX 01228 Overfill Prevention Valve (OPV) is designed for a pressure fill application to prevent tank overfills by stopping product delivery when a pre-set liquid level is reached. The valve installs through 4” SCH 40 pipe nipple or on the top of spill container. Connects directly to 2” fill piping or 3” via reducer.

Achieves maximum product level in shallow tanks.

- Adjusting float height is easy, no tools required.
- The valve can be set to the desired 90%, 95% or any other shut-off level providing a wide adjustment range of over 5” in 3/8” increments.
- Provides positive shut-off for low leak and visual confirmation via delivery hose light shock.
- Provides accurate liquid level shut-off in foaming fuels, such as diesel. Weighted float cuts through the fuel foam and shuts off at a true liquid level.
- Allows pressure relief in the fill line after OPV closes.
- Delivers full product flow up to shut-off for reduced fill time.
- Accepts fuel delivery up to 100 psi. The minimum operating pressure is 5 psi.
- 2” telescopic tube drop tube, recommended for taller tanks, consists of inner tube nested in outer tube. The drop tube threads directly on the valve body and extends to full length via gravity.
- Alternatively, 2” NPT SCH 40 pipe threads directly on the valve body serving as a drop tube for shorter tanks or may use multiple pipe sections connected with standard 2” coupling for taller tanks.
- Optional diffuser reduces diesel foaming inside the tank and reduces disturbing the sediment.
- Available optional test mechanism.
- For the use with clean liquids only.

U.S. Patent Pending
US 2023/0025926 A1
03/2025

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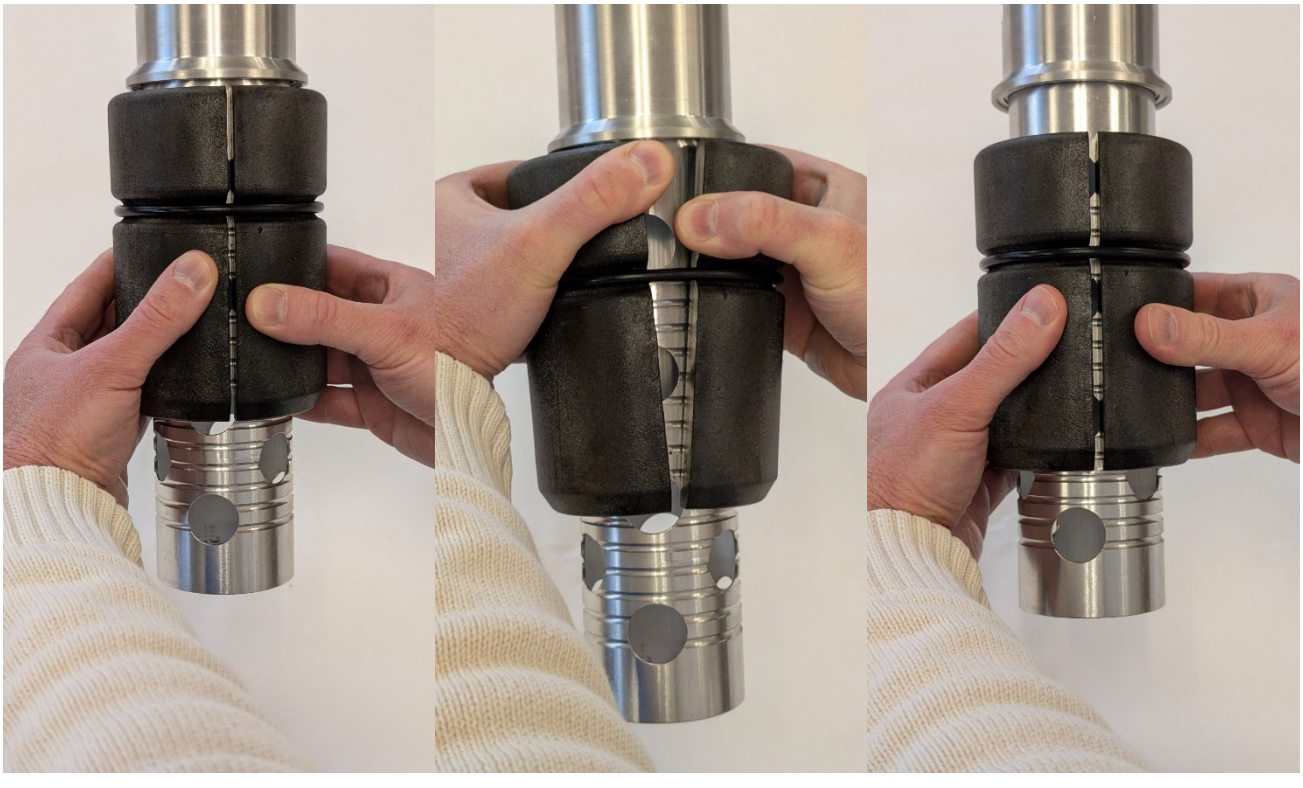
Models:

- 01228-03-4500 GenX Valve only (without fill or drop pipe)
- 01228-03-46XXYY GenX with 2” Camlock fill connection
- 01228-03-47XXYY GenX with 2” NPT Thread fill connection
- 01228-03-4410 Diffuser (used with 2” SCH 40 drop pipe)
- 01228-03-4415 3” Camlock to 2” NPT Reducer

(XX) – Fill Pipe Length
(YY) – Drop Tube Length
(T) – Testable option (at the end of the part number)

Adjusting float height and shut-off level is easy, fast and convenient. Two float halves are held together with stretchable O-ring. Simply, split float halves apart and slide float up or down to desired shut-off liquid level. Let go off halves and the float will lock into place at new shut-off level.



U.S. Patent Pending
US 2023/0025926 A1
03/2025

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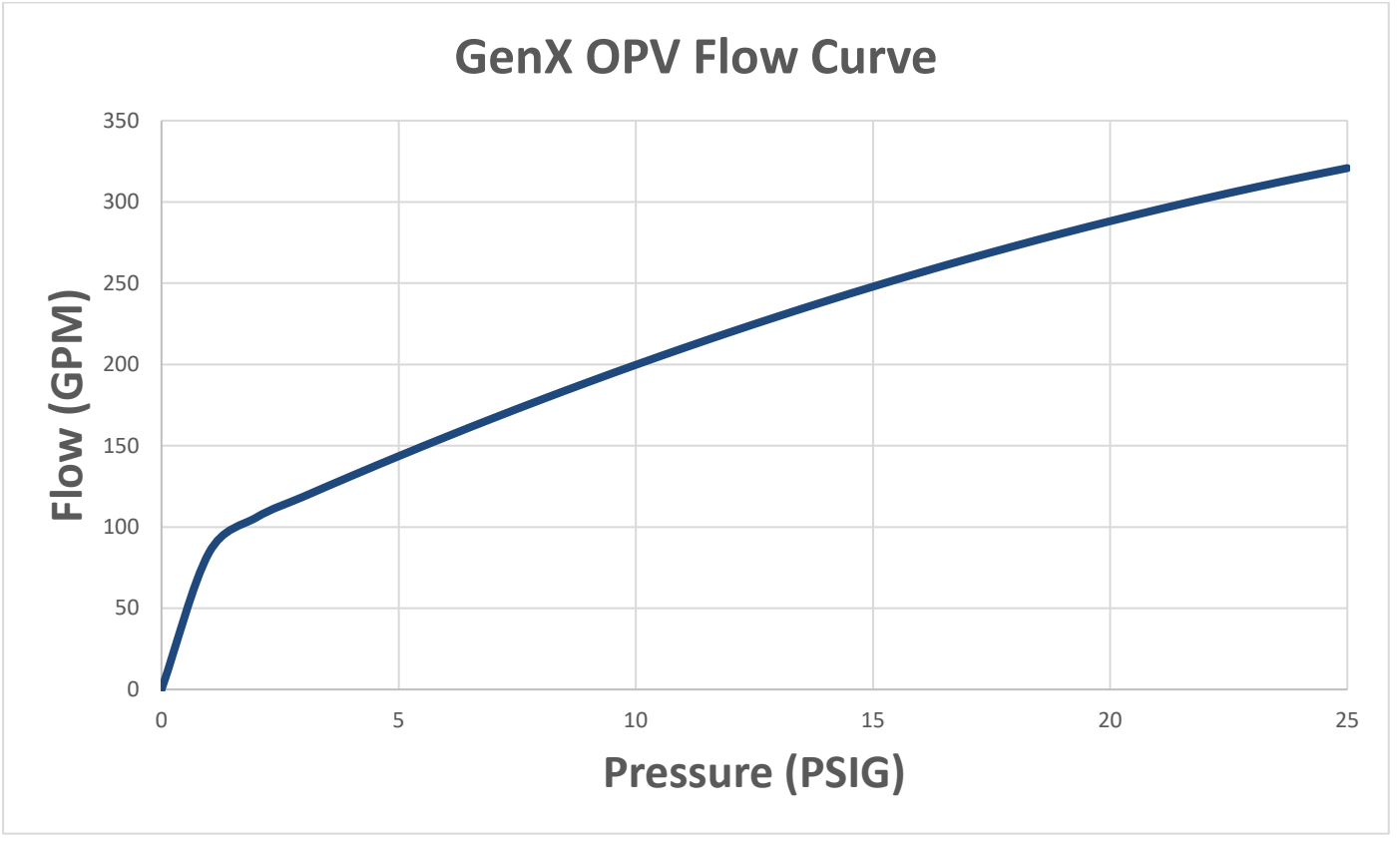


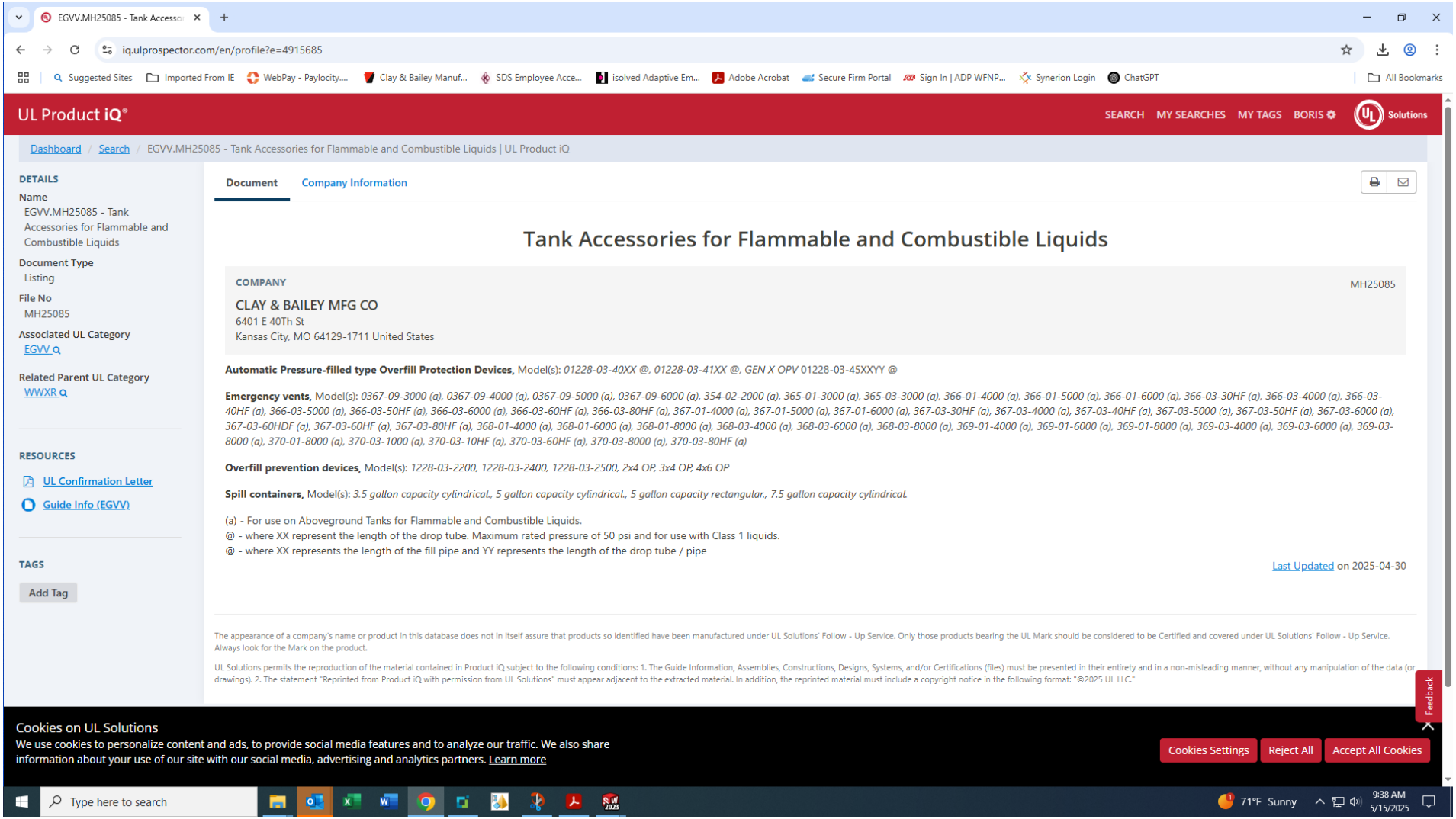
Code Compliance
Underwriters Laboratories Inc. ANSI/CAN/UL/ULC 2583 Listed; Petroleum Equipment Institute PEI RP200, PEI RP600; National Fire Protection Agency NFPA 30, NFPA 30A

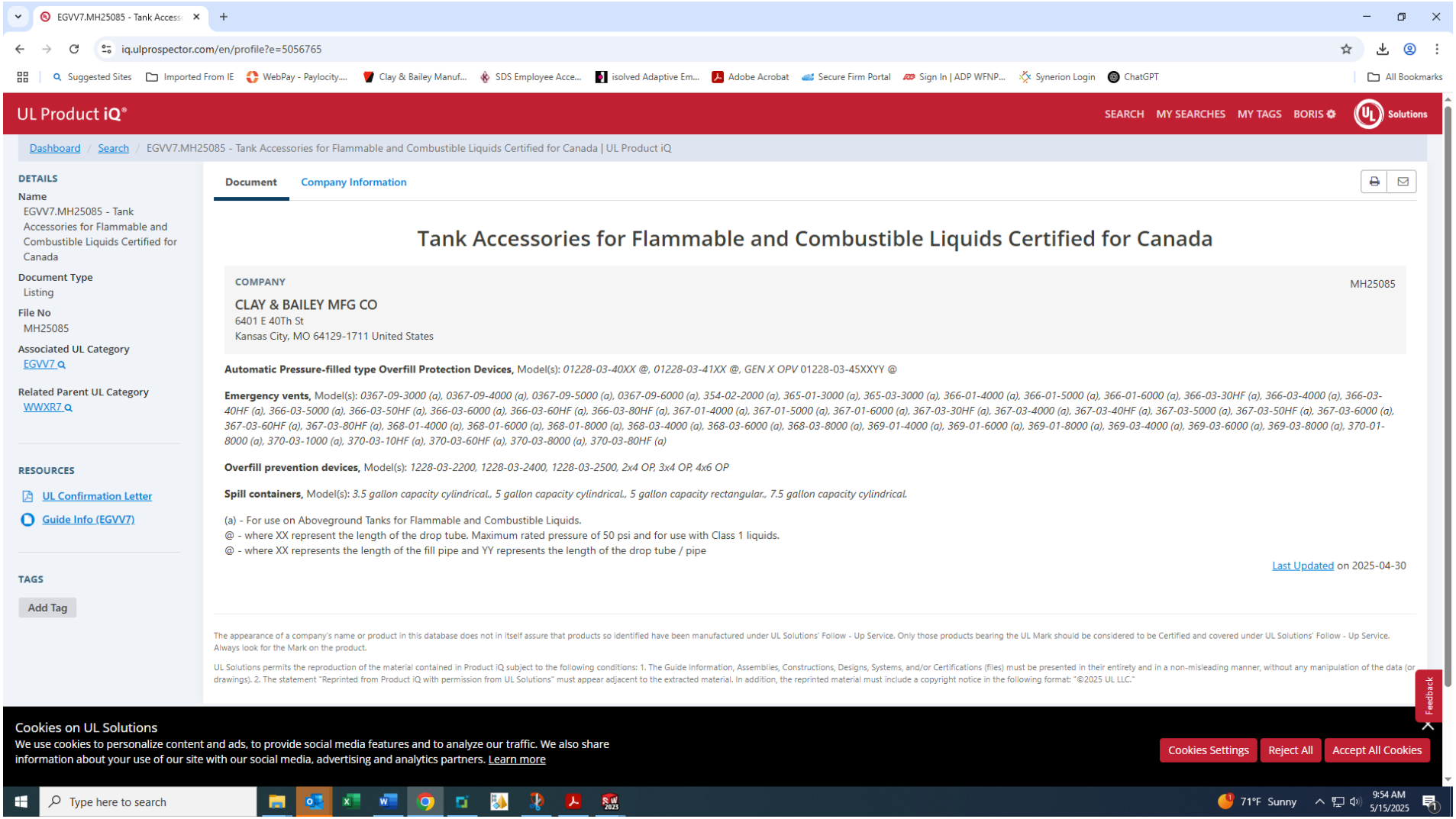
DEP Form 62-762.901(9) Information Checklist Additional Information:

Item number indicated as "Yes":

1. UL Certificate of Compliance for the Clay & Bailey Overfill Protection Valve GenX 01228-03-45XXYY, 46XXYY and 47XXYY Series including testable option, UL File No. MH25085.

2. UL evaluation documentation is proprietary. GenX Overfill Prevention Valve (OPV) is UL listed as shown on the Online Certifications Directory (UL Product iQ) below and UL Certificate of Compliance.





3. UL is a nationally and internationally recognized testing laboratory that provides safety-related certification, validation, testing, inspection, auditing, advising and training services to a wide range of clients, including manufacturers, retailers, policymakers, etc. More information can be found on UL's website: www.ul.com

4. Drawings and technical information are included.

5. Installation instructions are included.

6. Annual Operability Testing of OPV is performed via level gauge or high-level warning alarm or optional test mechanism when equipped.

8. GenX OPV is UL and ULC listed, investigated to, and found in compliance with the requirements of ANSI/CAN/UL/ULC 2583 standard for products that may be used with aboveground or underground tank systems. Per 14.4 Fuel Compatibility test, the OPV was exposed to and found in compliance with the 100% diesel, B25 (25% biodiesel), E25 (25% ethanol) and E85 (85% ethanol) fuels.

9. GenX 01228-03-45XXYY, 46XXYY and 47XXYY Series is also approved in Canada, ULC (as noted on the UL Online Certifications Directory – UL Product iQ).