



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: OPW Retail Fueling Contact Name: Gene Pope
Company Address: 3250 US Highway 70 Business West City, State: Smithfield, NC Zip: 27577
E-mail: gpope@popeasc.com Contact Number: 813-431-2009
Product Name: OPW 200TG Series Mechanical Tank Gauge
Model Number(s): 200TG-ENG, 200TG-ENG40 Product Type: Mechanical Tank Gauge
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.:
62-762 Overfill Prevention

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

This is a renewal request for EQ#937 covering the OPW 200TG, which, is a mechanical tank gauge installed on aboveground tanks that is designed for reading the liquid levels in horizontal and vertical aboveground storage tanks. The 200TG provides a +/- 2% accuracy level on a numerical counter readout, eliminating the need for any sticking of the tank to determine level readings. The 200TG-ENG is applicable for tanks up to 18' tall. The 200TG-ENG40 is applicable for tanks up to 40' tall.

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- <u>937</u>	☒	☐	☐
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 OPW 200TG Series Mechanical Tank Gauges are installed in aboveground horizontal & vertical tanks to provide a visual indication of the inventory level in the tank. The gauge provides a reading in feet and inches which is displayed in an angled face that improves visibility from the ground. The unit is vapor tight and utilizes all stainless steel hardware. The 200TG has been widely used in the United States since 2004. The gauge is also sold globally.

Equipment Registration Certification:

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

Gene Pope - Manufacturer's Representative

Printed Name and Title

Gene Pope

Signature (right click to sign)

Digitally signed by Gene Pope
Date: 2026.02.12 17:40:00 -05'00'

02/12/2026

Date

For Department Use Only:

Date Application Received: 02/12/2026 Application complete: Yes: ☒ No: ☐

EQ- 937

Date of complete or incomplete letter sent: 02/16/2026 Date Equipment Requires Renewal: 02/16/2031

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



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Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name:

Contact Name:

Company Address:

City, State:

Zip:

E-mail:

Contact Number:

Product Name:

Product Type:

Model Number(s):

Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.:

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

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)
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12. Any changes or modifications to the equipment since the last submittal to DEP?

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

Equipment Registration Certification:

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

Printed Name and Title

Signature (right click to sign)

Date

For Department Use Only:

Date Application Received:

Application complete:

Yes:

No: Re

EQ-

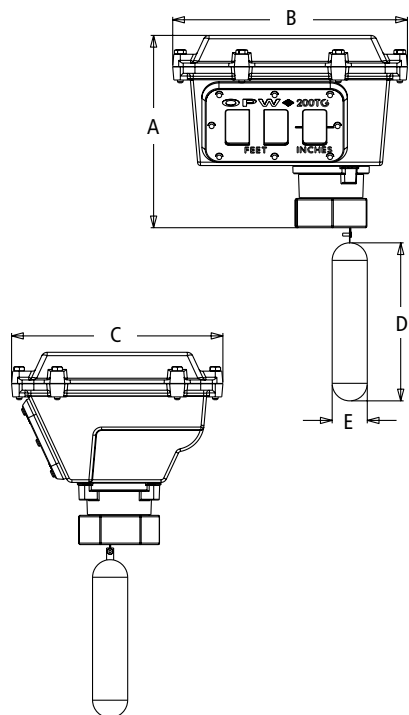
Date of complete or incomplete letter sent:

Date Equipment Requires Renewal:

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

OPW 200TG AST Mechanical Tank Gauge

The OPW 200TG Tank Gauge is designed for reading liquid levels in horizontal or vertical above ground storage tanks. The 200TG Tank Gauge provides an accurate numerical counter readout, eliminating the need for any on-site manual gauging.



Dimensions:

	in.	cm
A	8 1/4	21
B	10 1/4	26
C	9	22.75
D	6 3/4	17.25
E	1 1/2	3.75

Replacement Parts:

Part #	Description
C05165M	Float
H15325M	Lens
H15267M	Lens Gasket
H14909M	Lid Gasket



Underwriters Laboratory Listed UL Listing MH29367. Liquid level gauges which are intended to be used on above ground storage tanks and monitor the level of petroleum-based flammable or combustible fluids.

Materials

Enclosure: Powder-coated aluminum

Swivel Base: Hard-coat aluminum

Float: 304 stainless steel

Lenses: Tempered borosilicate

Gears: Acetal

Gaskets & O-Rings: Nitrile*

All Hardware: Stainless steel

Accuracy: + or - 2"



Features

- ◆ **Vapor-Tight** – allows for standard tank pressure testing and sealing up to 25-psig (1.72 bar).
- ◆ **Angled Face** – improves visibility from ground on large diameter tanks. May be read easily up to 30 feet away (9.14 m).
- ◆ **Swivel Adaptor Base** – allows for 360° of rotation of gauge face for easy viewing wherever needed.
- ◆ **Easy Installation** – 2" NPT-threaded base reduces labor time, and comes standard with female thread. A H11421RS may be purchased for male threaded applications.
- ◆ **Corrosion-Resistant Construction** – powder-coated die cast-aluminum body assures for long service life in many fluids.
- ◆ **Drop Tube** – prevents float entanglement in the tank, and gives the gauge a more accurate reading when turbulence is present (Drop Tubes sold separately. They are recommended for use in tanks with high turbulence, and where other piping and structures inside the tank may cause entanglement).
- ◆ **Float Buoyancy** – designed to float in all approved fuels with a specific gravity of 0.65 and greater.
- ◆ **Tank Height** – unit designed for use on any horizontal or vertical aboveground tank up to 18 feet (5.5 m) in depth. Specials available upon request.
- ◆ **Numbering** – black letters on white background for ultimate contrast and better visibility. Characters stand over 1" (25 mm) tall.
- ◆ **Unit Measurement** – Can be purchased in metric units to read in meters, 1/10, 1/100, or in English units to read in feet and inches.
- ◆ **Maintenance** – No annual maintenance required.
- ◆ **U.S. Patent No.:** 6,523,404 - Other patents pending.
- ◆ **Compatible Fuels**– see chart on page 292.
- ◆ **Temperature Rating** – 120°F to -40°F (49°C to -40°C)

200TG Tank Gauge Instruction Sheet
Order Number: **H14912PA**

Ordering Specifications:

Product #	Description	lb.	kg
200TG-ENG	English Unit Tank Gauge up to 18 ft.	7.75	3.52
200TG-ENG40	English Unit Tank Gauge - 40 ft.	7.75	3.52
200TG-MET	Metric Unit Tank Gauge up to 6 m	7.75	3.52
200TGMET40	Metric Unit Tank Gauge - 12 m	7.75	3.52

(Ancillary Equipment)

Product #	Description	lb.	kg
H11421RS	2" NPT Male x Male Nipple	1.5	0.68

CARB CERTIFIED AST EQUIPMENT

Product #	Description	lb.	kg
61T-0208	2" Dia. x 8' Long Drop Tube	2.67	1.21
61T-0212	2" Dia. x 12' Long Drop Tube	4.00	1.81
61T-0216	2" Dia. x 16' Long Drop Tube	5.33	2.42

UL Listed Products - Above Ground Products

OPW Approvals / Listings

Product	Description	File #	UL Online Certifications
11A Series & Astro	Automatic Nozzle	MH1942	 MH1942
11B Series & AstroB	Pressure-Sensing Automatic Nozzle	MH1942	
1A Series	Automatic Nozzle	MH1942	
7H Series	Automatic Nozzle	MH1942	
7HB Series	Pressure-Sensing Automatic Nozzle	MH1942	
11AF	Farm Nozzle	MH1942	
21Ge	Pressure-Sensing Automatic Nozzle for E85	MH1942	
12VW	Vacuum-Assist Nozzle	MH1942	
20S	Hose Swivel	MH4542	
21BV Series	Ball Valves	MH15855	
241TPS	Two-Plane Swivel	MH4542	 MH4542
241TPS-0492	Two-Plane Swivel for E85	MH4542	
36S	Hose Swivel	MH4542	
45	Hose Swivel	MH4542	
MFVA	Vacuum-Assist Vapor Recovery Swivel	MH4542	
199ASV	Anti-Siphon Valve	MH8488	
44 & 44N	Flow Limiters	MH8488	
66FL-1000	Vacuum-Assist Flow Limiter	MH8488	
VaporSaver™ 1	Tank Pressure Management System	MH10040	
523, 523V, 523AV	Pressure/Vacuum Vents	MH19391	
623V XXXX	Pressure Vacuum Vent	MH19391	 MH8488
821 Series	Solenoid Valve	E12264	
66RB	1" Reconnectable Breakaway	MH18037	
66SB	Swivel Breakaway	MH18037	
66ISU	Vacuum-Assist Vapor Recovery Breakaway	MH18037	
66ISB	Vacuum-Assist Vapor Recovery Breakaway	MH18037	
66REC	3/4" Reconnectable Breakaway	MH18037	
66V	Breakaway	MH18037	
66V-0492	Breakaway for E85	MH18037	
66CAS	Dry Reconnect Inverted Breakaway	MH18037	
66EZR	Dry Reconnect Inverted Breakaway	MH18037	 MH10040
66CL/CSU/CLP	Coaxial Breakaways	MH18037	
202 Series	Emergency Vents	MH25724	
301 Series	Emergency Vents	MH25724	
61f STOP-XXXT Version	AST Overfill Valve	MH25724	
200TG	Mechanical Tank Gauge	MH29367	
44TA-LLFS	Liquid-Level Float Switch Sub Assembly	E177423	
X44TA-0100	Liquid-Level and Overfill Alarm	ETL302278-H01	



MH29367



EQXX.MH29367 - Control, Monitoring and Auxiliary Equipment

Control, Monitoring and Auxiliary Equipment

See General Information for Control, Monitoring and Auxiliary Equipment

OPW FUELING COMPONENTS

9393 PRINCETON GLENDALE RD

WEST CHESTER, OH 45011-9707 USA

Liquid level gauges, Model(s) 200TG-ENG, 200TG-MET

MH29367

Last Updated on 2018-09-04

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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EQXX.GuidelInfo - Control, Monitoring and Auxiliary Equipment

[Dispensing Devices] (Dispensing-device Accessories) Control, Monitoring and Auxiliary Equipment

See General Information for Dispensing-device Accessories

USE AND INSTALLATION

This category covers equipment intended for use in service station environments for the control and monitoring of flammable liquid and LP-gas dispensing devices and related delivery systems, and is intended for installation in accordance with ANSI/NFPA 70, "National Electrical Code."

Control and monitoring equipment includes products such as transmitters, receivers, pressure actuators, power reset units and money acceptance consoles used in the assembly of or in conjunction with dispensing devices to initiate, record, program, actuate or monitor the operation of the dispensing device or remotely located accessories.

Monitoring equipment also includes products intended to monitor aboveground and underground fuel storage tanks for liquid level, and to monitor aboveground and underground fuel storage tanks, related piping and the surrounding environment for leaks.

This category also covers auxiliary equipment not intended to control or monitor dispensing devices, used in unclassified (ordinary) locations over or adjacent to Class I, Group D, Division 2 hazardous (classified) locations.

These devices are intended for use in unclassified locations that may or may not be over a hazardous (classified) location, as indicated in the individual certifications.

This category does not cover safety or emergency controls that automatically or manually interrupt the operation of a dispensing device.

When the product is intended for use with specifically identified equipment, this is shown in the installation instructions or marking, and in the individual certifications.

REBUILT PRODUCTS

This category also covers control, monitoring and auxiliary equipment that is rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt control, monitoring and auxiliary equipment is rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt control, monitoring and auxiliary equipment is subject to the same requirements as new control, monitoring and auxiliary equipment.

FACTORS NOT INVESTIGATED

The leak-detection capability of these products has not been investigated.

PRODUCT IDENTITY

One of the following product identities appears on the product:

Control Console

Interconnection Box

Other product identities may be used as shown in the individual certifications.

For rebuilt products, the word "Rebuilt," "Remanufactured" or "Reconditioned" precedes the product identity.

ADDITIONAL INFORMATION

For additional information, see Dispensing Devices (EPWR) and Flammable and Combustible Liquids and Gases Equipment (AAPQ).

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/UL 1238, "Control Equipment for Use With Flammable Liquid Dispensing Devices."

UL MARK

The Certification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. The Certification Mark for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

Alternate UL Mark

The Listing Mark of UL on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the product name "Control Console" or "Interconnection Box," or other appropriate product name as shown in the individual Listings.

For rebuilt products the word "Rebuilt,""Remanufactured" or "Reconditioned" precedes the product name.

When the product is intended for use with specifically identified equipment, this is shown in the installation instructions or marking, and in the individual Listings.

UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental or consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Guide Information.

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OPW Installation and Maintenance Instructions

OPW 200TG Mechanical AST Liquid Level Gauge

IMPORTANT: Please read these warnings and use the assembly instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

IMPORTANT: The OPW 200TG Tank Gauges are pre-assembled for your convenience and ease of use. Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions.

NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

Notice: OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

Standard Product Warranty

OPW warrants that products sold by it are free from defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW, will at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, clean up, downtime, removal, reinstallation, loss of profit, or any other cost or charges.

For any product certified to California 2001 standards, OPW warrants that product sold by it are free from defects in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.

THIS WARRANTY IS IN LIEU OF ALL OTHER

WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

200TG Specifications:

Accuracy: ± 2 inches

Specific Gravity of Fluid: 0.65 to 1.025.

Temperature Range: -40°F to 120°F (-40°C to 59°C)

Materials: Enclosure/Base – Powder-Coated Aluminum, Float – Stainless Steel, Lens – Tempered Borosilicate, Gears – Acetal, Gaskets/O-Rings – Nitrile, Hardware – Stainless Steel

Torque Specifications:

Swivel Base: 80 ft-lbs maximum. (As a general rule, hand tight plus $1\frac{1}{2}$ turns is adequate.)

Cover Bolts: 15-20 ft-lbs.

Lens Screws: Tighten evenly; be careful not to over-tighten.

Replacement Parts:

Lid Gasket: P/N H14909M

Lens: P/N H14358M

Float: P/N C05165M

Cover Bolt P/N: H14911M

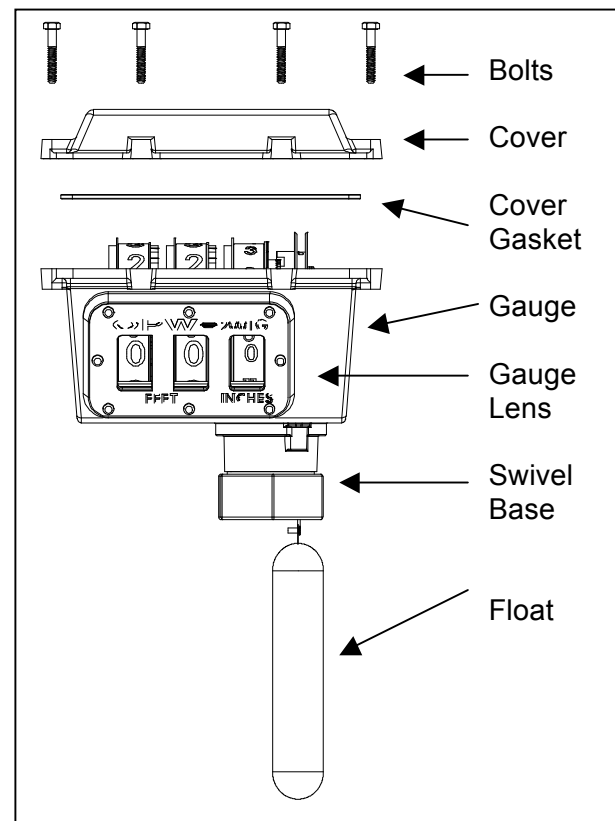


Figure 1

200TG Installation Instructions

1. For maximum accuracy, calibration should be undertaken when the tank is half full. Using a

dipstick, measure and record tank fluid level in feet and inches. If tank is empty, record level as 3.75 inches.

2. Remove tank gauge from packaging. Be sure to keep the cable taut before installation.
3. If installing a drop tube, drill a 5/16" vent hole within 6 inches from the top of the drop tube.
NOTE: Drop tubes are highly recommended for use in tanks that have any components near the tank gauge operating space in which the float and cable could become entangled, or in any tanks in which there is a high amount of turbulence. OPW offers a line of 61T Drop Tubes specifically for the 200TG tank gauge.
4. Remove the eight (8) bolts from the top of the gauge. Place them, the cover and the lid gasket in a safe place. Be careful not to damage the lid gasket.
5. While supporting the float, remove the cardboard insert that is holding the drive gear in place. See Figure 2.

WARNING: When this cardboard piece is removed the spool is no longer secured. It is necessary to hold the float to prevent the spool from tangling. This insert must be removed for operation of the gauge.

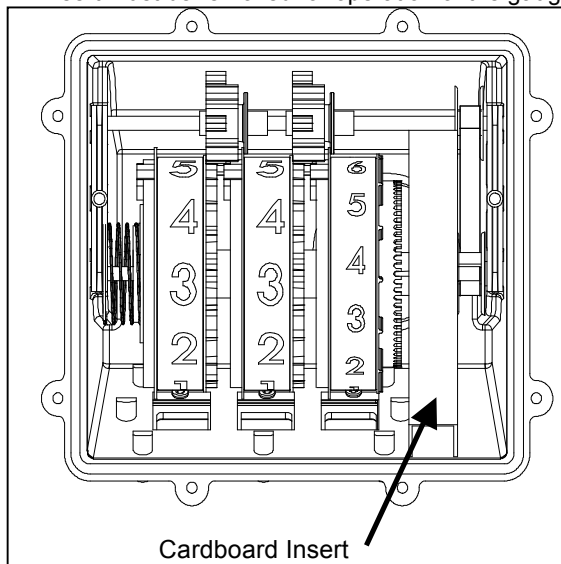


Figure 2

6. Apply pipe dope to threads on swivel base to ensure a tight seal. Pipe dope to be a non-hardening, gasoline resistant pipe thread sealant compound.
7. Slowly lower the float into the desired tank opening. Remember to keep the cable taut at all times.
8. Thread swivel base onto desired tank opening and tighten to 80 ft-lbs.
9. Rotate tank gauge to desired orientation for best visibility.

10. From inside of the tank gauge housing, disengage the gears by sliding them toward the spring at one end of the housing to allow for calibration of gears. While the gears are disengaged, start by rotating the inch gear to the match the inch value found in Step 1. Slide this gear away from the spring to re-engage. Repeat for two remaining gears. Be sure to view the gauge from the vantage point it will be viewed from in day-to-day operations to properly calibrate the gears. See Figure 3.

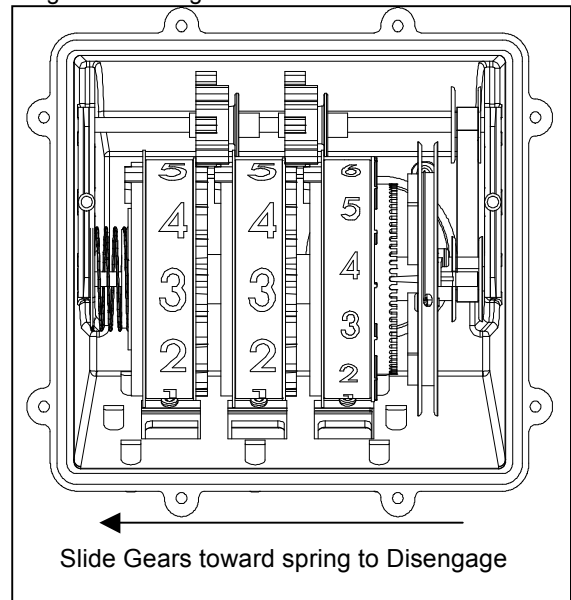


Figure 3

11. Place the lid gasket back into the groove, being careful not to damage it and keep it clean from debris. No sealant is necessary for this gasket. Add the cover and secure it tightly with the eight (8) bolts, using a crossing pattern, torque the bolts to 15-20 ft-lbs.

Annual Maintenance:

Using a dip stick, measure the liquid level of the tank and check this value with the value displayed on the tank gauge. The values should be within ± 2 inches of each other. Recalibrate if necessary.

Remove cover and visually inspect the internal parts for signs of wear, tangles in the spool, and corrosion.

Replace parts if necessary.



9393 Princeton-Glendale Road, Cincinnati, Ohio 45011
1-800-422-2525 Domestically - 513-870-3315 Internationally

www.opw-fc.com

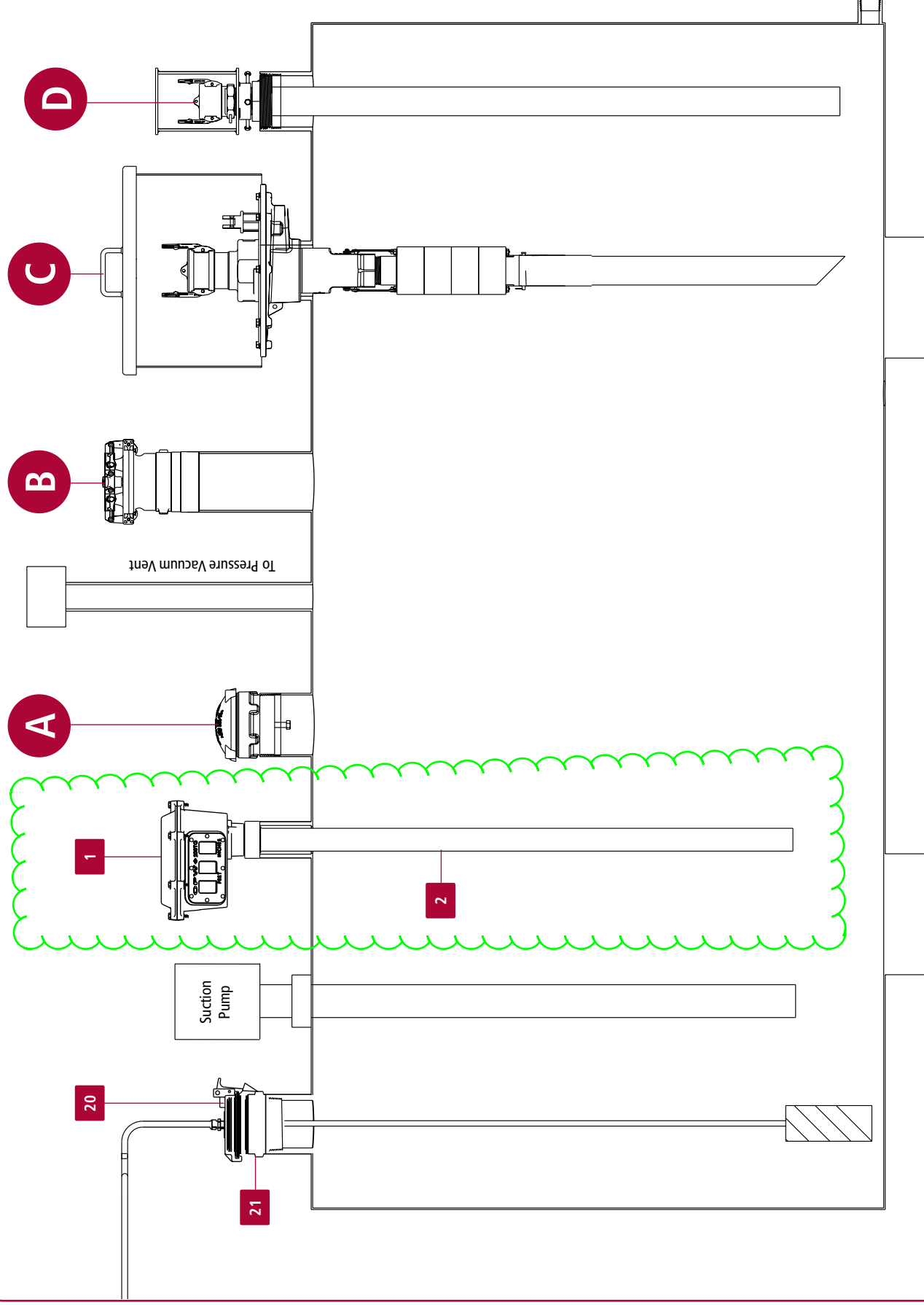
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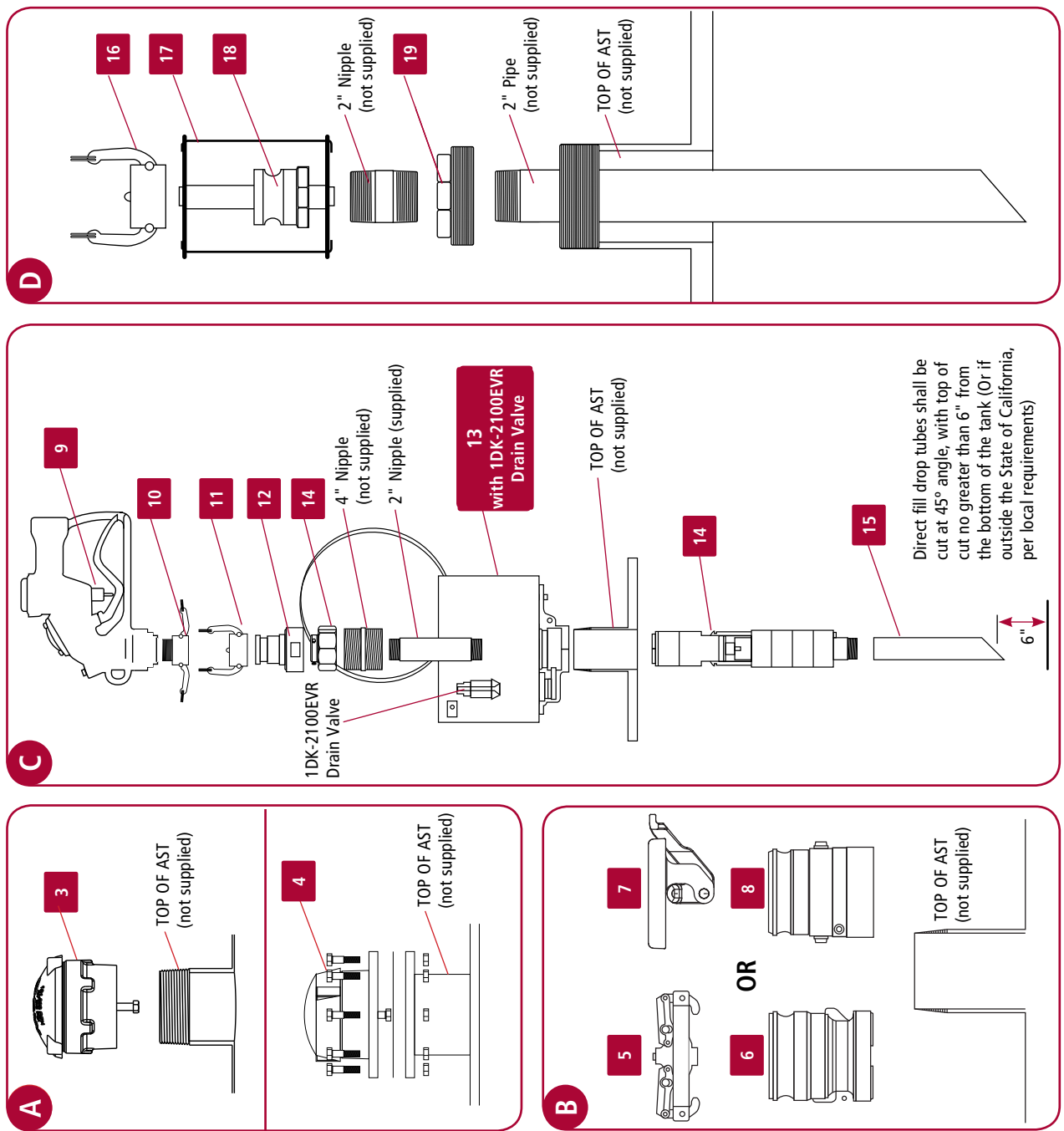
OPW Fueling Components Inc., Cincinnati, OH

Printed in U.S.A. p/n H14912PA - 07/09

Above Ground Storage Tank - Direct Fill

Typical Non-EVR Direct Fill AST Application



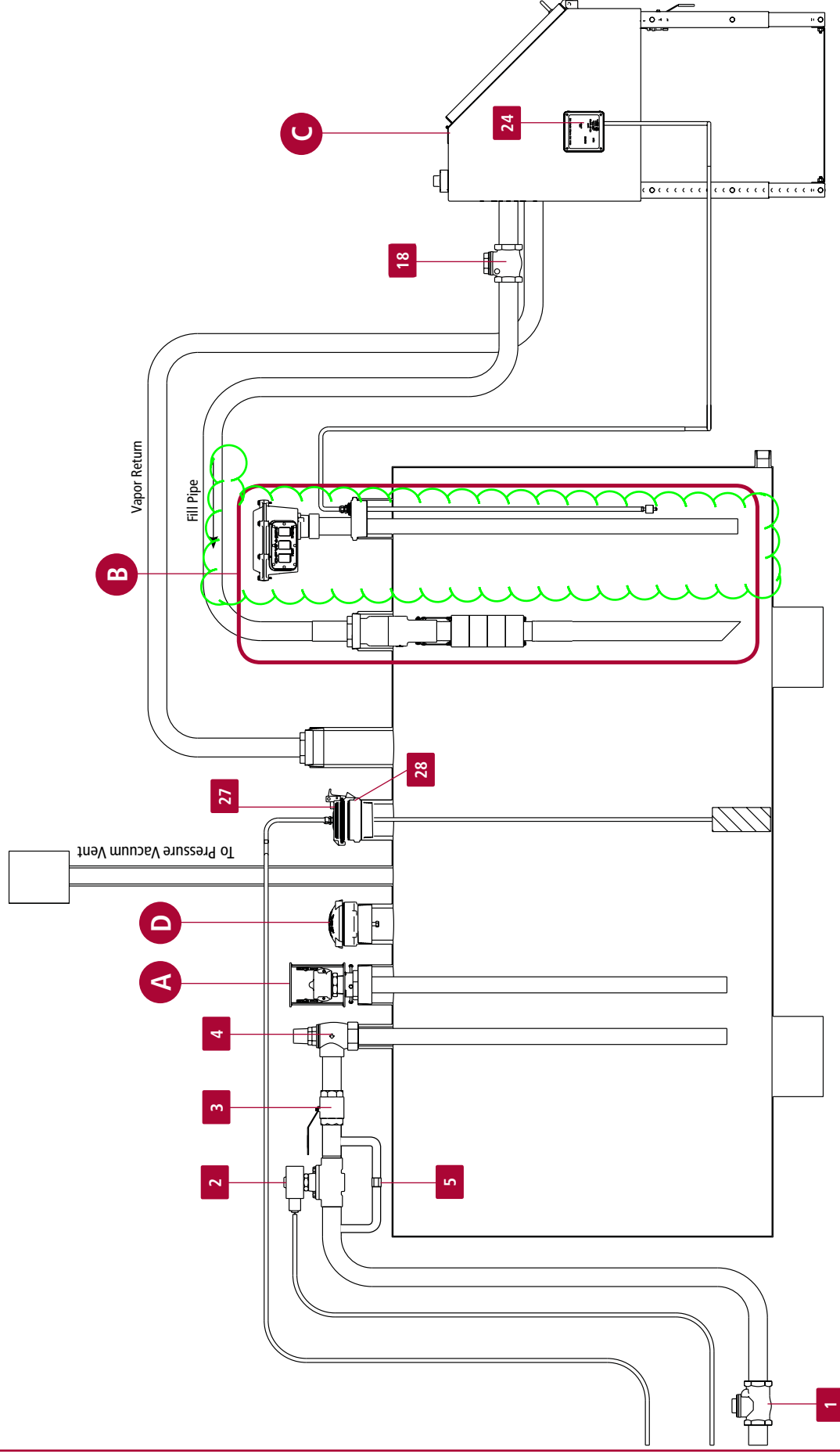


PRODUCT KEY		
	OPW PART / DESCRIPTION	PAGE
1	200TG-ENG Series Tank Gauge (optional / see Note below)	232
2	61T Series Drop Tube	232
3	301 Series Emergency Vent - NPT Mount (See Vent Size Configuration Guide on page 224)	234
4	301 Series Emergency Vent - Flanged Mount (See Vent Size Configuration Guide on page 224)	234
5	1711T-7085-EVR Cap	106
6	1611AV Series Vapor Recovery Adaptor	105
7	1711LPC-0300 Low Profile Cap	106
8	61VSA Series Vapor Recovery Adaptor	99
9	190 or 210 High-Flow Bulk Nozzle	162-163
10	633BD Kamlok™ Coupler	230
	A) 634B-0150 Dust Cap or 634BK-0090 Lockable Dust Cap fits 633AST-2061 Spout Adaptor	
11	B) 634B-0170 Dust Cap or 634BK-0100 Lockable Dust Cap fits 633AST-3061 Spout Adaptor	230
12	633AST-2061 (2" x 2") or 633AST-3061 (3" x 3") - Tank Inlet Spout Adaptor	230
13	332 Series Spill Container	226
14	61fSTOP-XXXX Series Overfill Prevention Valve	228
15	61FT Series Drop Tube	230
16	634B-0150 or 634BK-0090 Cap	230-231
17	204247 Fill Prevention Cage	230
18	633AST Series Adaptor	230
19	53-00XX Series Double Tapped Bushing	138
20	62M Series Monitoring Probe Cap & Adaptor	107
21	FSA-400 Face Seal Adaptor	65

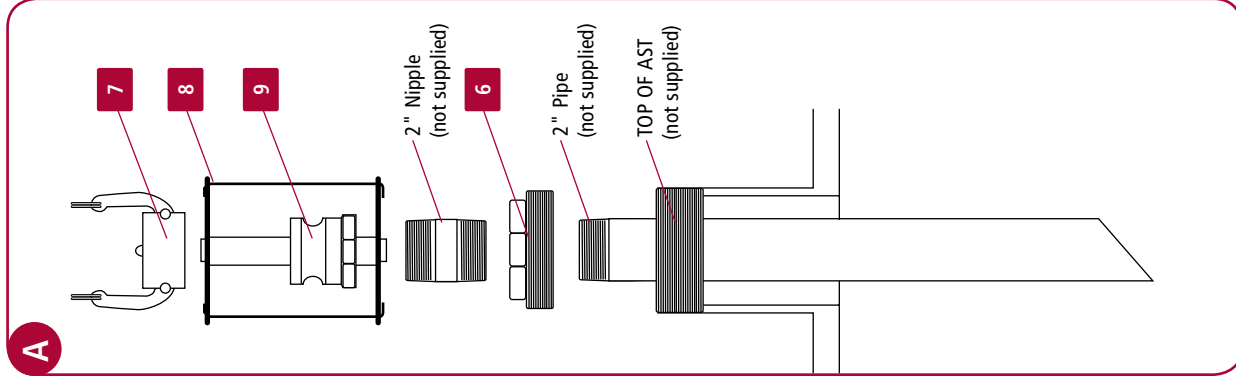
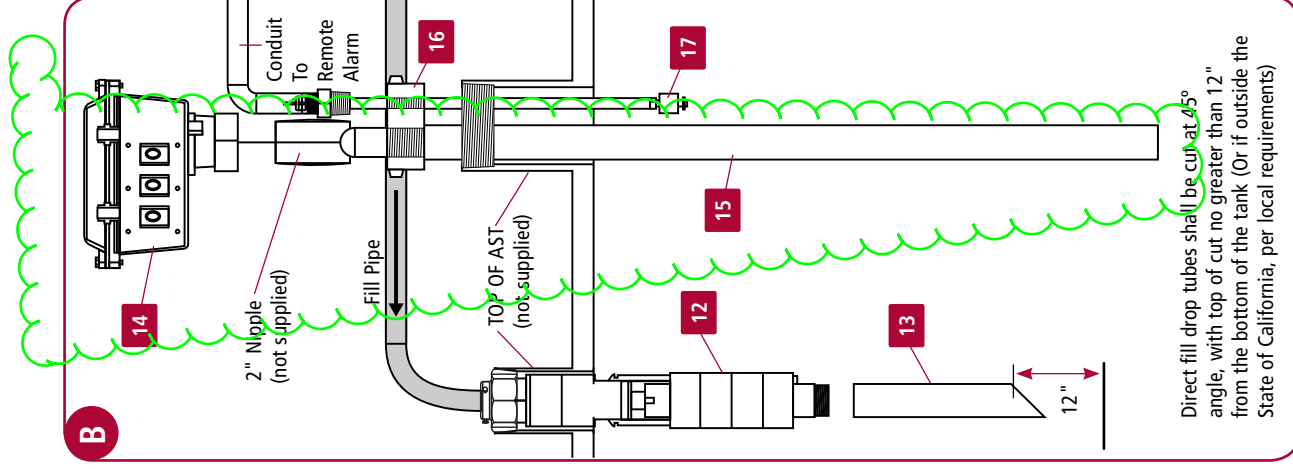
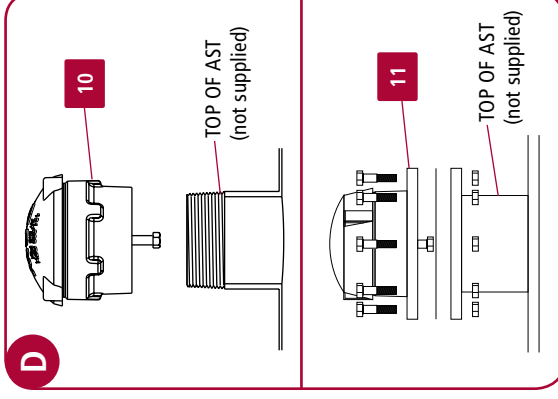
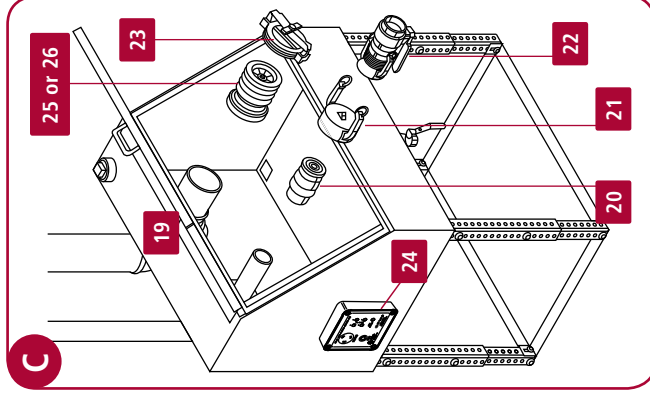
NOTE: The OPW 200TG and 144TA/444TA are not required for EVR compliance, but if a tank gauge or tank alarm is used on your tank that these two OPW products are the only CARB AST EVR certified tank gauge and alarm.

Above Ground Storage Tank - Remote Fill - Remote Dispensing

Typical Non-EVR Remote Fill / Remote Dispensing AST Application



PRODUCT KEY		
KEY	OPW PART / DESCRIPTION	PAGE
1	178S Series Emergency Valve	244
2	821 Series Solenoid Valve	242
3	21BV Series Ball Valve	243
4	199ASV Series Anti-Siphon Valve	241
5	82RV Series Pressure Relief Valve	242
6	53-00XX Series Double Tapped Bushing	138
7	634B-0150 or 634BK-0090 Cap	230-231
8	204247 Fill Prevention Cage	230
9	633AST-2190 Adaptor	230
10	301 Series Emergency Vent - Threaded Mount (See Vent Size Configuration Guide on page 224)	234
11	301 Series Emergency Vent - Flanged Mount (See Vent Size Configuration Guide on page 224)	234
12	61FTOP-XXXX Series Overfill Prevention Valve	228-229
13	61FT Series Drop Tube	229
14	200TG-ENG Series Tank Gauge (optional / see Note below)	232
15	61T Series Drop Tube	232
16	TGTA-0400 4" Gauge/Alarm Combo Fitting (optional)	233
17	44TA-LLFS Liquid Level Float Switch	233
18	175 Series Swing Check Valve	245
19	6211R Series Remote Spill Container	227
20	1611AN-0200 or 1612AN-0200 - 2" Remote Fill or 1611AN-0300 or 1612AN-0300 - 3" Remote Fill Kamvalok Adaptor	231
21	A) 634B-0140 Dust Cap fits 633AST-0150 Adaptor B) 634B-0150 Dust Cap fits 633AST-2061 or 633AST-0200 Adaptor C) 634B-0160 Dust Cap fits 1611AN-0200 or 633ST- 0250 or 1611AN-2040 or 1612AN-2040 Adaptors D) 634B-0170 Dust Cap fits 1611AN-3060 or 1612AN-3060 Adaptors	230
22	1711D / 1712D Series Kamvalok Coupler	231
23	1711T-7085-EVR Cap or 1711LPC-0300 Low Profile Cap	106
24	144TA/444TA Series Tank Alarm (optional / see Note below)	233
25	1611AV Vapor Recovery Adaptor	105
26	61VSA Series Vapor Recovery Adaptor	99
27	62M Series Monitoring Probe Cap & Adaptor	107
28	FSA-400 Face Seal Adaptor	65



NOTE: The OPW 200TG and 144TA/444TA are not required for EVR compliance, but if a tank gauge or tank alarm is used on your tank that these two OPW products are the only CARB AST EVR certified tank gauge and alarm.



Above Ground Storage Tank Equipment Fuel Compatibility Matrix

Updated 1/2015

OPW Product Number	Description	Unleaded Fuels up to 10% Ethanol (≤E10)	Up to 25% Ethanol (≤E25)	Up to 85% Ethanol (≤E85)	Petroleum Diesel	Bio-Diesel		Av- Gas	Jet Fuel	Kerosene/ Fuel Oil
523V Series	Pressure Vacuum Vent	UL	X	X	UL	X	*	X	X	X
623V Series	Pressure Vacuum Vent	UL	X	X	UL	X	*	X	X	X
61VSA-1020-EVR	Vapor Swivel Adaptor	X	X	X	X	X	*	X	X	X
1611AVB-1625	Vapor Adaptor	X	X	X	X	X	*	X	X	X
1711T-7085-EVR	Vapor Cap	X	X	X	X	X	*	X	X	X
1711LPC-0300	Low Profile Vapor Cap	X	X	X	X	X	*	X	X	X
301 & 201 Series	Emergency Vents	UL/ULC	X	X	UL/ULC	X	*	X	X	X
200TG Series	AST Mechanical Gauge	UL	X	X	UL	X	*	X	X	X
444TA Series	Tank Alarms	ETL	X	X	ETL	X	*	X	X	X
821 Series	Solenoid Valves	UL	X		UL	X		X	X	X
21BV SS	Full Port Stainless Steel Ball Valves	UL/ULC	X	X	UL/ULC	X		X		X
331 / 332 Series	AST Spill Containers	UL/ULC	X	X	UL/ULC	X	*	X	X	X
61f STOP	AST Overfill Valve	UL/ULC	X		UL/ULC	X				X
61f STOP - A or M Version	AST Overfill Valve Anodized	UL/ULC	X	X	UL/ULC	X		X	X	X

UL - UL listed X - Compatible ULC - UL Canada *Pending Investigation

CARB EVR Certified Products - Above Ground Storage Tank Equipment

Product	Description	EO Number
301-XXXX	Emergency Vent	VR 401
61fSTOP-XXXX	Overfill Prevention Valve	VR 401
331-ASTWXX & 332-ASTWXX	Direct Fill Spill Container	VR 401
1611AN-XXXX & 1612AN-XXXX	Kamvalok Adaptor	VR 401
634B-XXXX & 634BK-XXXX	Dust Cap	VR 401
61VSA-1020-EVR	Rotatable Swivel Adaptor	VR 401
1711T-7085-EVR & 1711LPC-0300	Vapor Recovery Caps	VR 401
61FT-XXXX	Drop Tube	VR 401
200TG-ENG, 200TG-ENG40, 200TG-MET, 200TG-MET40	Mechanical Tank Gauge	VR 401
144TA-XXX	Tank Alarm	VR 401
44TA-LLFS	Liquid Level Float Switch	VR 401
66CLP-5100	Balance, Reconnectable Breakaway	VR 204, VR-203

Product	Description	CARB Certification	CA Fire Marshal
12VW	Vacuum-Assist Nozzle	G-70-153, G-70-150, G-70-199	GVRC: 005:008:059
11VAI-27	Vacuum-Assist Nozzle w/o Vapor Valve	G-70-150, G-70-150/94-8, G-70-199	GVRC: 005:008:050 (applies to all)
11VAI-37	Vacuum-Assist Nozzle w/o Vapor Valve	G-70-164/95-29, G-70-199	GVRC: 005:008:050 (applies to all)
11VAI-68	Vacuum-Assist Nozzle	G-70-154, G-70-163, G-70-169, G-70-199	GVRC: 005:008:050 (applies to all)
11VAI-69	Vacuum-Assist Nozzle	G-70-153, G-70-199	GVRC: 005:008:050 (applies to all)
11VAA-61	Vacuum-Assist Nozzle	G-70-118	GVRC: 005:008:049
66CAS	Dry Reconnect Inverted Breakaway	96-18	GVRC: 005:008:056
66ISU	Vacuum-Assist Breakaway	94-9	GVRC: 005:031:009
66ISB	Swivel/Breakaways	95-35	GVRC: 005:031:016
11VF-47	Balance Nozzle	G-70-52	GVRC: 005:008:037
66CL/CSU/CLP	Coaxial Breakaway	91-14	GVRC: 005:008:047
Vacurite® 00-40005C	Centralized Vacuum-Assist Vapor Recovery System	G-70-164-AA, G-70-175	GVRC: 004:001:001
Max Vacurite® AST 00-40001C	Centralized Vacuum-Assist Vapor Recovery System	G-70-164-AA, G-70-175-AST	GVRC: 004:001:001
Micro Vacurite® 00-40003.UL	Centralized Vacuum-Assist Vapor Recovery System	98-13, G-70-164-AA	GVRC: 004:001:002
VacuSmart™	Air to Liquid Test Equipment	CARB Approved Alternative to TP-201.5	N/A
VacuChek™	Air to Liquid Test Equipment	CARB Approved Alternative to TP-201.5	N/A
VaporSaver™	Tank Pressure Management System	G-70-204A	GVRC: 005:008:062
61fSTOP	AST Overfill Valve	CARB No. ATG-01-01	N/A
523V	Pressure/Vacuum Vent	CARB No. 98-1	N/A

**State of California
AIR RESOURCES BOARD**

EXECUTIVE ORDER VR-401-F

Related to Certification of Vapor Recovery Systems

**OPW Phase I Enhanced Vapor Recovery (EVR) System For
Aboveground Storage Tanks (AST)**

WHEREAS, the California Air Resources Board (CARB) has established, pursuant to California Health and Safety Code sections 39600, 39601 and 41954, certification procedures for systems designed for the control of gasoline vapor emissions during the filling of ASTs (Phase I EVR system), in its Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Aboveground Storage Tanks (CP-206) as last amended on November 9, 2015, incorporated by reference in Title 17, California Code of Regulations, Section 94016;

WHEREAS, CARB has established, pursuant to California Health and Safety Code Sections 39600, 39601, 39607, and 41954, test procedures for determining compliance of Phase I EVR systems with emission standards;

WHEREAS, OPW Fueling Components, Inc. (OPW) requested and was granted certification of the OPW Phase I EVR System for ASTs pursuant to CP-206 by Executive Order VR-401-A, on February 3, 2010, and last modified on June 29, 2015, by Executive Order VR-401-E;

WHEREAS, Executive Order VR-401-E expires on July 1, 2019;

WHEREAS, CP-206 provides a process for the renewal of the certification prior to the expiration date;

WHEREAS, the CARB Executive Officer has conducted a renewal evaluation and has found no system deficiencies with the OPW Phase I EVR System for ASTs;

WHEREAS, CP-206 provides that the CARB Executive Officer shall renew the certification for a period of four years if no data demonstrating system deficiencies is found or developed prior to the expiration date;

WHEREAS, I, Richard W. Corey, CARB Executive Officer, find that the OPW Phase I EVR System for AST conforms with all the requirements set forth in CP-206 and results in a vapor recovery system which is at least 98.0 percent efficient when tested pursuant to TP-206.4, Volumetric Efficiency of Phase I Vapor Recovery Systems for Aboveground Storage Tanks (November 7, 2014);

NOW THEREFORE, IT IS HEREBY ORDERED that the OPW Phase I EVR System for AST is certified to be at least 98.0 percent efficient when used with Standing Loss Control Vapor Recovery Systems certified by Executive Order VR-301 or Executive Order VR-302, as

applicable and installed and maintained as specified herein and in the following exhibits: Exhibit 1 contains a list of the equipment certified for use with the OPW Phase I EVR System for AST; Exhibit 2 contains the installation, maintenance, and compliance standards and specifications; Exhibit 3 contains the manufacturing performance specifications and warranty; Exhibit 4 contains a test procedure for determination of static pressure performance of vapor recovery systems at gasoline dispensing facilities with ASTs; and, Exhibit 5 contains alternate Phase I EVR installation configurations for existing ASTs.

IT IS FURTHER ORDERED that compliance with the applicable certification requirements, rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, and the Division of Occupational Safety and Health of the Department of Industrial Relations are made conditions of this certification.

IT IS FURTHER ORDERED that OPW shall provide a warranty for the vapor recovery system and components to the initial purchaser. The warranty shall be passed on to each subsequent purchaser within the warranty period. The manufacturer of components listed in Exhibit 1 not manufactured by OPW shall provide a warranty to each of their components certified herein. The warranty shall include the ongoing compliance with all applicable performance standards and specifications, and shall comply with all warranty requirements in Section 17.5 of CP-206. OPW or other manufacturers may specify that the warranty is contingent upon the use of trained installers. The manufacturer warranty tag, included with each component, shall be provided to the service station owner/operator at the time of installation.

IT IS FURTHER ORDERED that every certified component manufactured by OPW shall meet the manufacturing performance specifications as provided in Exhibit 3.

IT IS FURTHER ORDERED that the certified OPW Phase I EVR System for AST shall be installed, operated and maintained in accordance with the CARB-approved Installation, Operation and Maintenance Manual. Equipment shall be inspected annually per the procedures identified in the CARB-approved Installation, Operation, and Maintenance Manual. This inspection requirement shall also apply to systems certified by Executive Orders VR-402-A to E. A copy of the Executive Order and the CARB-approved Installation, Operation, and Maintenance Manual shall be maintained at each GDF where a certified OPW Phase I EVR System for AST is installed.

IT IS FURTHER ORDERED that equipment listed in Exhibit 1, unless exempted, shall be clearly identified by a permanent identification showing the manufacturer's name, model number, and serial number.

IT IS FURTHER ORDERED that any alteration in the equipment parts, design, installation, or operation of the system provided in the manufacturer's certification application or documents and certified hereby is prohibited and deemed inconsistent with this certification unless the alteration has been submitted in writing pursuant to the process for Executive Order amendments set forth in Section 19 of CP-206 and approved in writing by the Executive Officer. Any sale, offer for sale, or installation of any system or component without CARB's approval as set forth above is subject to enforcement action.

IT IS FURTHER ORDERED that the following requirement be made a condition of certification. The owner or operator of the OPW Phase I EVR System for AST shall conduct and pass the following test no later than 60 days after startup and at least once every three years after startup testing, using the following test procedure: Exhibit 6, Determination of Static Pressure Performance of Vapor Recovery Systems at Gasoline Dispensing Facilities with Aboveground Storage Tanks. Shorter time periods may be specified by the District. Notification of testing, and submittal of test results, shall be done in accordance with District requirements and pursuant to policies established by that District. Districts may require the use of alternate test form(s), provided they include the same minimum parameters identified in the data sheet referenced in the test procedure. Alternate test procedures, including most recent version of test procedure listed above, may be used if determined by the CARB Executive Officer or his delegate, in writing, to yield equivalent results.

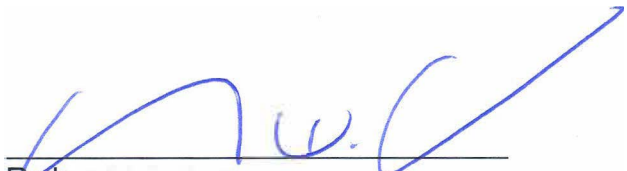
IT IS FURTHER ORDERED that the OPW Phase I EVR System for AST shall be compatible with gasoline in common use in California at the time of certification. The OPW Phase I EVR System for AST is not compatible with gasoline that has methanol content greater than 5 percent or ethanol content greater than 10 percent. Any modifications to comply with future California gasoline requirements shall be submitted in writing pursuant to the process for Executive Order amendments set forth in Section 19 of CP-206 and approved in writing by the CARB Executive Officer.

IT IS FURTHER ORDERED that the certification of the OPW Phase I EVR System for AST is valid for a period of four years from the date when this Executive Order is signed.

IT IS FURTHER ORDERED that Executive Order VR-402-E issued on June 29, 2015, is hereby superseded by this Executive Order. OPW Phase I EVR Systems for AST certified under Executive Order VR-402-A through E may remain in use at existing installations up to four years after the expiration date of this Executive Order when the certification is not renewed.

IT IS FURTHER ORDERED that this Executive Order shall apply to new installations or major modification of the Phase I system at an existing gasoline dispensing facility.

Executed at Sacramento, California, this 17th day of July 2019.


Rich
Executive Officer

Attachments: See next page.

Attachments

- Exhibit 1 Equipment List
- Exhibit 2 Installation, Maintenance, and Compliance Standards and Specifications
- Exhibit 3 Manufacturing Performance Standards and Specifications and Warranty
- Exhibit 4 Determination of Static Pressure Performance of Vapor Recovery Systems at
Gasoline Dispensing Facilities with Aboveground Storage Tanks
- Exhibit 5 Alternate Phase I EVR Installation Configurations for Existing Aboveground
Storage Tanks