

Leading the Way in Above Ground Storage Tank Equipment Solutions



The **First** California Air Resources Board (CARB)
Certified AST Phase 1 Enhanced Vapor Recovery (EVR)
System In The Industry

[The only system to receive
approval prior to the
July 1, 2010 deadline]

Are your
AST tanks in
compliance?



OPW 
A **DOVER**™ COMPANY

ONE COMPANY. ONE WORLD. ONE SOURCE.™



California's New AST Vapor Recovery Standards

Are you in compliance?

The California Air Resources Board (CARB) has adopted new Enhanced Vapor Recovery (EVR) performance standards and specifications for above ground gasoline storage tanks (AST). The new standards and specifications cover standing loss control, Phase I deliveries into ASTs and Phase II deliveries into motor vehicles. Phase I vapor recovery requirements went into effect in July 2010.

OPW was the first and only equipment manufacturer to receive CARB certification by the July 1, 2010 deadline.

A significant amount of hazardous air pollutants may be emitted during the loading of ASTs. CARB established stringent standards to prevent these emissions. Phase 1 vapor recovery systems are mandated to meet or exceed a minimum 98% efficiency rating. They also require manufacturers to pass a strenuous 24/7 test protocol over a 6 – 12 month evaluation period.

OPW Fueling Components has designed its AST products to successfully meet the rigorous CARB standards and prevent harmful air pollutants.

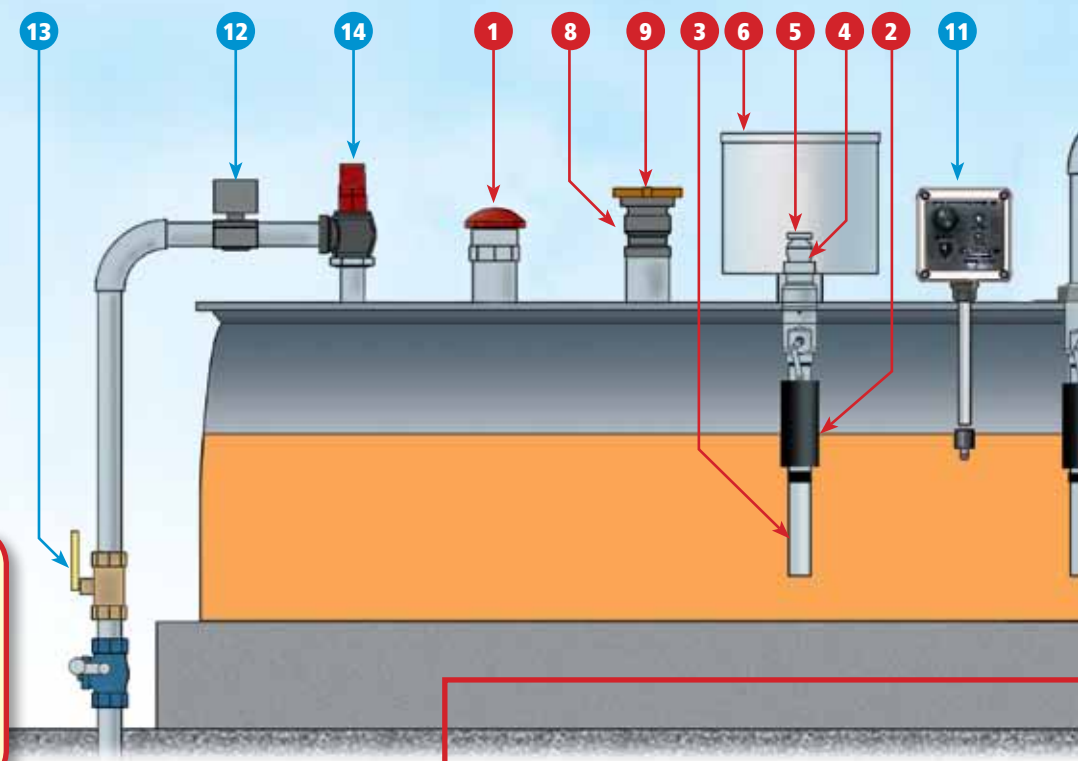
Benefits of an OPW AST Solution include:

- The First AST system and components certified by the California Air Resources Board
- Helps to protect the air we breathe and the water we drink

Find out about the OPW AST Enhanced Vapor Recovery solution at www.opwastevr.com

Leading the Way in Above Ground Storage

OPW is the first manufacturer to receive the California Air Resources Board (CARB) Certification for Phase 1 AST EVR Vapor Recovery.



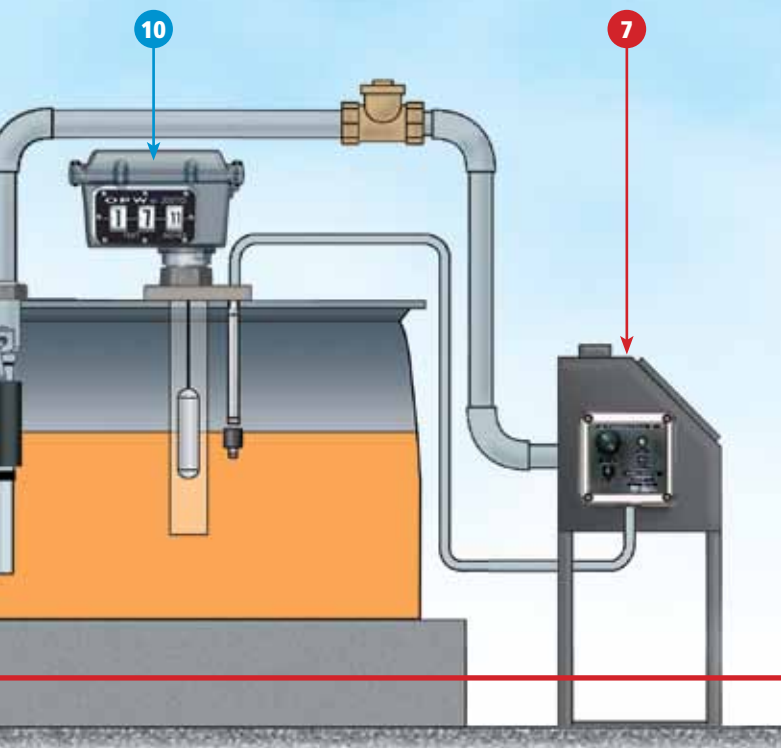
REQUIRED PRODUCTS

- 301 Emergency Vent Valve**
 - When AST pressure builds, weighted cast iron lid is forced up off seat to relieve pressure. When pressure is relieved, the lid lowers and is automatically reset
 - Available in 3", 4", 6" and 8" openings with female NPT, male NPT or flanged connections (8" and 10") to allow for easy installation in new or existing above ground tanks
- 61fSTOP Overfill Prevention Valve**
 - The OPW 61fSTOP is designed to prevent overfilling of ASTs by providing a positive shut-off during a pressurized-fill (pump-on fill) delivery
 - Available for both direct-fill and remote-fill applications
- 61FT Drop Tube**
 - Designed to install on the bottom of the 61fSTOP AST Overfill Prevention Valves when a lightweight, longer, lower drop tube is required
- 1611 & 1612 Series Kamvalok Adaptors**
 - Installed onto the 61 fSTOP overfill prevention valve
 - They contain an internal spring loaded valve assembly that automatically closes to help prevent fuel spillage
- 634B & 634BK Dust Caps**
 - Designed to deter dust, debris and water from entering the tank
- 331 and 332 Series Direct-Fill Spill Container***
 - Catches spillage to help prevent soil contamination and groundwater pollution
 - Threads on the top of an above ground tank and allows for drainage of spilled product back into the tank
- 211-RMOT Remote-Fill Spill Container***
 - Catches spillage to help prevent soil contamination and groundwater pollution
 - Slips on the remote-fill and vapor return piping connected to an above ground tank
- 61VSA Rotatable Swivel Adaptor**
 - Designed to mate with a vapor recovery elbow, featuring a top section that rotates with hose movement while the bottom section remains securely sealed to the 4 inch tank riser
- 1711T & 1711LPC Vapor Recovery Caps**
 - Caps feature enhanced ribbed seals and increased sealing forces to provide a bubble tight seal

*Only one spill container is required, either remote or direct -fill

Storage Tank Equipment Solutions

In a class by themselves, the following CARB-Certified OPW AST products ensure that you are in compliance while providing unmatched durability and reliability.



RECOMMENDED PRODUCTS

- 10 200TG Mechanical Tank Gauge**
 - Designed for reading liquid levels in horizontal or vertical above ground storage tanks
 - Provides accurate numerical counter readout, eliminating the need for any on-site manual gauging
 - Vapor Tight – Allows for standard tank pressure testing, sealing up to 50 psig
- 11 144TA and 444TA AST Tank Alarm**
 - Designed to sense up to four different liquid levels or other signals using just one device
 - Audible Alarm – Sounds a 90-decibel alarm at 4 feet away
 - Visual Notifications – Red alarm light will flash during use for notification to the user
 - Intrinsically Safe – Complies with ANSI/UL 913 for Class 1, Division 1 & 2 for Groups C & D hazardous locations.
 - May be assembled remotely or directly on top of tank
- 12 821 Solenoid Valve**
 - Designed to prevent accidental siphoning of above ground storage tanks if a leak or break occurs in the fuel supply line
- 13 21BV Full Port Two-Way Ball Valve**
 - Used throughout fueling systems where a shut-off point is desirable to isolate a section of the piping system
- 14 199ASV Anti-Siphon Valve**
 - Designed to help prevent siphoning of an above ground storage tank should a leak or break occur in the fuel supply line

REQUIRED PRODUCTS



*Only one spill container is required, either remote or direct-fill

RECOMMENDED PRODUCTS



Committed to Environmental Sustainability

OPW is committed to the long-term sustainability of our world. Every product we build is about enabling operators to provide a safer, cleaner, greener environment for themselves, their families and their customers.

For more information on the OPW CARB-Certified AST EVR Solution, call us at 800-422-2525 or visit us on the web at: www.opwastevr.com

Phase 1 Testing	OPW	Competitors
Efficiency > 98%	✓	✗
Static Pressure Performance Testing of:		
• Fixed Cam & Groove Adaptors and Caps	✓	✗
• Overfill Prevention Valve	✓	✗
• Emergency Vent	✓	✗
• Direct-Fill Spill Container with Drain Valve	✓	✗
• Tank Gauge	✓	✗
• Tank Alarm	✓	✗
CARB Certified	✓	✗

Ordering Specifications

301 Emergency Vent		1611 & 1612 Kamvalok Adaptor		144TA & 444TA AST Tank Alarm	
301-3080	3" Female NPT, 8 oz.	1611AN-2040	2" Direct Fill with Buna seal	444TA-0100	Four Signal Tank Alarm Box, No Float Switches
301M-3081	3" Male NPT, 8 oz.	1612AN-2040	2" Direct Fill with Viton seal	144TA-0100	Single Channel Liquid Level Tank Alarm, No Float Switches
301-3160	3" Female NPT, 16 oz.	1611AN-3060	3" Direct Fill with Buna seal	44TA-LLFS	36" Liquid Level Float Switch
301M-3161	3" Male NPT, 16 oz.	1612AN-3060	3" Direct Fill with Viton seal	199ASV Anti-Siphon Valve	
301-4080	4" Female NPT, 8 oz.	1611AN-0200	2" Remote Fill with Buna seal	199ASV-1075	3/4" Dia., 0' - 5' Head Pressure
301M-4081	4" Male NPT, 8 oz.	1612AN-0200	2" Remote Fill with Viton seal	199ASV-2075	3/4" Dia., 5'-10' Head Pressure
301-4160	4" Female NPT, 16 oz.	1611AN-0300	3" Remote Fill with Buna seal	199ASV-3075	3/4" Dia., 10' - 15' Head Pressure
301M-4161	4" Male NPT, 16 oz.	1612AN-0300	3" Remote Fill with Viton seal	199ASV-1100	1" Dia., 0' - 5' Head Pressure
301-6080	6" Female NPT, 8 oz.	634B & 634BK Dust Caps		199ASV-2100	1" Dia., 5'-10' Head Pressure
301M-6081	6" Male NPT, 8 oz.	634B-0160	2" Cap	199ASV-3100	1" Dia., 10' - 15' Head Pressure
301-6160	6" Female NPT, 16 oz.	634B-0180	3" Cap	199ASV-1150	1.5" Dia., 0' - 5' Head Pressure
301M-6161	6" Male NPT, 16 oz.	634BK-0200	2" Lockable Cap	199ASV-2150	1.5" Dia., 5'-10' Head Pressure
301-8080	8" Female NPT, 8 oz.	61VSA Rotable Swivel Adaptor		199ASV-3150	1.5" Dia., 10' - 15' Head Pressure
301M-8081	8" Male NPT, 8 oz.	61VSA-1020-EVR	61VSA rotatable swivel adaptor	199ASV-1200	2" Dia., 0' - 5' Head Pressure
301-8160	8" Female NPT, 16 oz.	1711T-1711LPC Vapor Recovery Caps		199ASV-2200	2" Dia., 5'-10' Head Pressure
301M-8161	8" Male NPT, 16 oz.	1711T-7085-EVR	Vapor recovery cap	199ASV-3200	2" Dia., 10' - 15' Head Pressure
301F-8085	8" Flange, 8 oz.	1711LPC-0300	Heavy duty, low profile, top seal vapor cap	821 Solenoid Valve	
301F-8165	8" Flange, 16 oz.	61FT Drop tube		821-0075AC	3/4" Solenoid valve
301F-1085	10" Flange, 8 oz.	61FT-0206	2" x 6' Drop tube kit	821-0100AC	1" Solenoid valve
61fSTOP Overfill Prevention Valve		61FT-0312	3" x 12' Drop tube kit	821-0150AC	1.5" Solenoid valve
61FSTOP-1000T	2" NPT with cylindrical float	200TG Mechanical Tank Gauge		821-0200AC	2" Solenoid valve
61FSTOP-2000T	2" NPT with float arm	200TG-ENG	English unit, up to 20 ft.	21BV Two-Way Ball Valve	
61FSTOP-3050T	3" NPT with cylindrical float	200TG-ENG40	English unit, up to 40 ft.	21BV-0050	0.5" Ball valve
331 & 332 Direct Fill Spill containers		200TG-MET	Metric unit, up to 6 m	21BV-0075	0.75" Ball valve
331-ASTW74	Welded, 7 gallon, 4" NPT	200TG-MET40	Metric unit, up to 12 m	21BV-0100	1.0" Ball valve
331-ASTW76	Welded, 7 gallon, 6" NPT	61T-0208	2" dia. X 8' long drop tube	21BV-0150	1.5" Ball valve
332-ASTW74	Spun, 7 gallon, 4" NPT	61T-0212	2" dia. X 12' long Drop tube	21BV-0200	2.0" Ball valve
332-ASTW76	Spun, 7 gallon, 6" NPT	61T-0216	2" dia. X 16' long Drop tube	21BV-0300	3.0" Ball valve



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