

IMPORTANT: OPW products should be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and materials to be handled. OPW MAKES NO WARRANTY OF FITNESS FOR A PARTICULAR USE. All illustrations and specifications in this literature are based on the latest product information available at the time of publication. OPW reserves the right to make changes at any time in prices, materials, specifications and models and to discontinue models without notice or obligation.



EVR-Certified Pressure Vacuum Vents (623V-2203 623V-3203)



OPW 623V

Pressure Vacuum Vents are installed on the top of vent pipes from underground or aboveground fuel storage tanks. The vent cap and internal wire screen are designed to protect the tank vent lines against intrusion and blockage from water, debris or insects. A normally closed poppet in the valve opens at a predetermined pressure or vacuum setting to allow the tank to vent.

Table of Contents:

1. Features
2. Conversion Table
3. Materials
4. Replacement Parts
5. Ordering Specifications
6. Additional Resources

Features

- **Pressure/Vacuum Setting** - 3" water column pressure settings and 8" water column vacuum settings are factory preset and tested.
- **Reliable Service** - Cycle tested to the equivalent of 80 years of service in the most severe environment without leakage problems.
- **Corrosion-Resistant Construction** - A Duratuff[®] composite body assures a long service life.
- **Easy installation** - The 623V is available in 2" and 3" threaded versions.
- **California Air Resource Board-Certified**
- **EVR-Certified**
- **Underwriters Laboratory Listed**
- **Complies with NFPA 30 Requirements** - for venting gasoline vapors upward.
- **High Maximum Flow Rate** - 6450 SCFH at 2 psi pressure drop.
- **Manifold Vent Pipes** - Vent pipes may be manifolded to produce a single Pressure Vacuum Vent line. The 623V exceeds California's requirements of a maximum vapor leak rate of 0.17 SCFH at 2.00 inches of H₂O.
- **Leak Rate** - Multiple pressure vacuum vents may be installed on a single site. The 623V exceeds California standards with a leak rate of 0.05 SCFH or less at 2.00 inches H₂O.
- **Maintenance** - No tools required. A removable snap fit top allows for easy maintenance (recommended yearly).
- **100-mesh Stainless Steel Wire Screens** - Helps prevent debris and insects from entering the tank vent lines. An added screen installed at the base prevents debris from intruding from the vent stack.
- **Adaptor Bushing** - Removable Hex threaded bushing designed for easy installation on NPT threaded risers. Allows for easy access to lower screen.
- **Patent No. WO2004/036096AZ**

UL Listed



Conversion Table

Measurement Units	=	Oz	PSI	in H2O (WC)	in HG (Merc)	Bar
Bar	x	236.0	14.5	401.4	29.53	
In. Hg (mercury)	x	7.843	0.49	13.6		0.034
In H2O (wc)	x	0.578	0.04		0.074	0.002
PSI	x	16.00		27.68	2.04	0.069
Oz.	x		0.063	1.73	0.128	0.004

Materials

Top/Body: polypropylene

Base: anodized aluminum

Poppet: anodized aluminum

Screen: stainless steel mesh

Gasket: closed cell foam

Replacement Parts

Part Number	Description
C05086M	Lower Screen
H14895M	Upper Screen
C05089	2" Threaded Base Adaptor
C05122	3" Threaded Base Adaptor
C05102M	Wrench for Poly. Vent

Ordering Specifications

Product No.	Description	Identification Label Color	lb.	kg.
623V-2203	2" 3" wc pres., 8" wc vac. thread-on	Yellow	1.55	.70
623V-3203	3" 3" wc pres., 8" wc vac. thread-on	Yellow	2.2	1.00

623V Installation Instructions

[h14898pa-623v-092403.pdf](#)

