

Model 948A Pressure Vacuum Vent

SPECIFICATION SHEET

Application

The 948A pressure vacuum vent is designed for installation on top of the vent pipe of an aboveground or underground storage tank. The poppets seal vapors in the tank when pressure is equalized. The vent allows the tank to “breathe” during filling and discharging operations.

Features and Details

- UL Listing for compatibility with gasoline, ethanol (to E-85), biodiesel (to B-20)
- Conserves vapors
- Durable construction
- Easily replaceable seals extend life expectancy
- Outlasts other brands by many years of service
- Operating temperature -40° F to 130° F
- Full 2-inch orifice for maximum flow rate

Materials of Construction

- Body... anodized aluminum
- Seals... Viton®
- Screens... stainless steel
- Handle... stainless steel
- Rainguard... aluminum

Leak Rates and Settings

- Pressure leak rate: Less than 0.05 SCFH @ 2.00" WC
- Vacuum leak rate: Less than 0.21 SCFH @ 4.00: WC
- Opening pressure: 2.5" to 6.0" WC
- Opening vacuum: 6.0" to 10.0" WC

Estimated Flow Rates

- 36,720 SCFH @ 2.5 PSI pressure
- 8,000 SCFH @ -0.5 PSI vacuum

Certifications and Listings

UL 2583 Listed; 948A Pressure Vacuum Vents meet the requirements of EPA 40 CFR part 63 for Gasoline Dispensing Facilities; Missouri Air Conservation Commission Approved for Rule 10 CSR 10.2.260 and 10.5.220



Fig. 948A (2")

WARNING

Normal vents such as pressure vacuum and updraft vents for aboveground storage tanks should be sized according to NFPA 30 (2008) 21.4.3.

WARNING: DO NOT FILL OR UNLOAD FUEL FROM A STORAGE TANK UNLESS IT IS CERTAIN THAT THE TANK VENTS WILL OPERATE PROPERLY. Morrison tank vents are designed only for use on shop fabricated atmospheric tanks which have been built and tested in accordance with UL 142, NFPA 30 & 30A, and API 650 and in accordance with all applicable local, state, and federal laws. In normal operation, dust and debris can accumulate in vent openings and block air passages. Certain atmospheric conditions such as a sudden drop in temperature, below freezing temperatures, and freezing rain can cause moisture to enter the vent and freeze which can restrict internal movement of vent mechanisms and block air passages. All storage tank vent air passages must be completely free of restriction and all vent mechanisms must have free movement in order to insure proper operation. Any restriction of airflow can cause excessive pressure or vacuum to build up in the storage tank, which can result in structural damage to the tank, fuel spillage, property damage, fire, injury, and death. Monthly inspection, and immediate inspection during freezing conditions, by someone familiar with the proper operation of storage tank vents, is required to insure venting devices are functioning properly before filling or unloading a tank.

Item Number	Description	Weight (lbs)
948A--0200 AV	2" Pressure vacuum vent 2.5"-6" WC pressure	7.70