

Model 749 Pressure Vacuum Vents

SPECIFICATION SHEET

Application

Pressure vacuum vents are installed on the top of underground and low volume aboveground storage tank vent pipes. Vent allows tank to “breathe” during filling and discharging operations. Pressure and vacuum poppets seal vapors in tank when pressure is equalized. Settings are approximate.

The 749T provides the same functions as the 749 and is designed for use on underground and low volume aboveground tanks storing Diesel Exhaust Fluid (DEF) and other products requiring Teflon® and stainless construction.

Features and Details

- Screen protects the tank from debris and insects
- Integrated internal drain port channels water away from the tank
- Vent vapors up and outward per NFPA 30
- Conserves fuel
- Certified SCFH ratings

Materials of Construction

- Body and hood... anodized aluminum (**749T**—is Teflon® coated aluminum)
 - Pressure poppet... anodized aluminum (**749T**—is HDPE)
 - Vacuum poppet... brass vacuum (**749T**—is stainless steel)
 - Body seal... Buna-N (**749T**—is Viton®)
 - Screen... 40 mesh stainless steel
 - Springs... stainless steel
 - Set screws... Zinc-plated steel (**749T**—is Nylon)
- *HDPE = High density polyethelene

Certifications and Listings

CARB 95-14 (749CRB0500 model); CARB 95-15 (749CRB0600 model); CARB 96-19 (749CRBS0600 model); 749CRB Pressure Vacuum Vents (models 749CRB0600 AV, 749CRB1600 AV, 749CRBS0600 AV and 749CRBS1600 AV), meet the requirements of EPA 40 CFR part 63 for Gasoline Dispensing Facilities



WARNING

Fig. 749 P/V vent must only be used in conjunction with motor fueling and/or low capacity flow. Fluid handling in lines larger than that used for retail service stations can cause tank to rupture or implode.

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 | A | B | C | D | E | SCFH | Height | Weight |
|----------------|----|---------|---------|---|---|---------------------|--------|--------|
| 749---0100 AV | 2N | 8.0 oz | 0.50 oz | M | N | 6200 @ 20oz./in.sq. | 4.33 | 1.0 |
| 749---0200 AV | 2N | 12.0 oz | 0.50 oz | M | N | 7500 @ 25oz./in.sq. | 4.33 | 1.0 |
| 749---1100 AV | 3N | 8.0 oz | 0.50 oz | M | N | 6200 @ 20oz./in.sq. | 5.91 | 1.55 |
| 749---1200 AV | 3N | 12.0 oz | 0.50 oz | M | N | 7500 @ 25oz./in.sq. | 5.91 | 1.55 |
| 749S--0100 AV | 2S | 8.0 oz | 0.50 oz | M | N | 6200 @ 20oz./in.sq. | 4.33 | 1.0 |
| 749S--0200 AV | 2S | 12.0 oz | 0.50 oz | M | N | 7500 @ 25oz./in.sq. | 4.33 | 1.0 |
| 749S--1100 AV | 3S | 8.0 oz | 0.50 oz | M | N | 6200 @ 20oz./in.sq. | 6.28 | 1.65 |
| 749S--1200 AV | 3S | 12.0 oz | 0.50 oz | M | N | 7500 @ 25oz./in.sq. | 6.28 | 1.65 |
| 749CRB0500 AV | 2N | 8.0 oz | 0.50 oz | V | Y | 6200 @ 20oz./in.sq. | 4.33 | 1.45 |
| 749CRB0600 AV | 2N | 3" W.C. | 8" W.C. | V | Y | 3800 @ 8.2" H2O | 4.33 | 1.95 |
| 749CRB1500 AV | 3N | 8.0 oz | 0.50 oz | V | N | 6200 @ 20oz./in.sq. | 5.91 | 1.65 |
| 749CRB1600 AV | 3N | 3" W.C. | 8" W.C. | V | N | 3800 @ 8.2" H2O | 5.91 | 1.65 |
| 749CRBS600 AV | 2S | 3" W.C. | 8" W.C. | V | N | 3800 @ 8.2" H2O | 4.33 | 1.45 |
| 749CRBS1600 AV | 3S | 3" W.C. | 8" W.C. | V | N | 3800 @ 8.2" H2O | 6.28 | 1.95 |
| 749BSP0100 AV | 2B | 8.0 oz | 0.50 oz | M | N | 6200 @ 20oz./in.sq. | 4.33 | 1.0 |
| 749BSP0200 AV | 2B | 12.0 oz | 0.50 oz | M | N | 7500 @ 25oz./in.sq. | 4.33 | 1.0 |
| 749T--0200 AV | 2S | 8.0 oz | 0.50 oz | V | N | 7500 @ 25oz./in.sq. | 4.33 | 1.0 |

SPECIFICATION OPTIONS:

- A**— Body connection: 2" NPSM (2N), 2" Slip-on style (2S), 2" BSP (2B), 3" NPSM (3N), or 3" Slip-on style (3S)
- B**—Pressure setting: oz = oz/sq inch, wc = water column
- C**—Vacuum setting: oz = oz/sq inch, wc = water column
- D**—Pressure seal: metal-to-metal seat (M) or metal/viton® o-ring seat (V)
- E**—C.A.R.B. approval: yes or no (Y/N)
- Height**—Dimension from base to top of vent
- Weight**—Shipping weight (lbs)

