



Model 748A & 748ALT Pressure Vacuum Vents

SPECIFICATION SHEET

Application

Pressure vacuum vent designed for installation on top of the vent pipe of an aboveground or underground storage tank. Poppets seal vapors in the tank when pressure is equalized. The vent allows the tank to “breathe” during filling and dispensing operations. This vent must be used in conjunction with an emergency vent. It is recommended that the opening pressure setting is set below that of the emergency vent so the normal vent operates first. Settings are approximate.

Features and Details

- Vents outward and upward in compliance with NFPA 30
- Tri-polar mounting screws for mounting exhaust hood in any of three positions
- Optional dryer connections accommodate the installation of desiccant dryers on vacuum connection
- Optional pressure discharge hood facilitates piping pressure relief to desired discharge point

Materials of Construction

748A

- Aluminum body and hood
- Brass poppets
- Passivated aluminum seats
- Stainless steel screens

748ALT

- Body and hood... aluminum
- Poppets and seats... Teflon® coated aluminum
- Screens...stainless steel



NOTE

Normal vents such as pressure vacuum and updraft vents for aboveground storage tanks should be sized according to NFPA 30 (2012) 21.4.3.

Item numbers, dimensions, and warnings on next page...



MORRISON BROS. CO.



Model 748A & 748ALT Pressure Vacuum Vents (continued)

SPECIFICATION SHEET

Item Number	A	B	C	D	E	F	G	H	I	J	K	L
748A--0100 AV	2"	2	20.2	1	BR	PA	AL	NO	N	10.37"	9.68"	6.50
748A--0200 AV	2"	4	20.2	1	BR	PA	AL	NO	N	10.37"	9.68"	7.15
748A--0300 AV	2"	6	20.2	1	BR	PA	AL	NO	N	10.37"	9.68"	7.55
748A--0400 AV	2"	8	20.0	1	BR	PA	AL	NO	N	10.37"	9.68"	8.15
748A--0500 AV	2"	12	18.6	1	BR	PA	AL	NO	N	10.37"	9.68"	9.30
748A--0600 AV	2"	16	18.0	1	BR	PA	AL	NO	N	10.37"	9.68"	10.35
748A--0700 AV	2"	2	20.2	1	BR	PA	AL	M	N	13.0"	9.68"	6.80
748A--0800 AV	2"	4	20.2	1	BR	PA	AL	M	N	13.0"	9.68"	7.45
748A--0900 AV	2"	6	20.2	1	BR	PA	AL	M	N	13.0"	9.68"	7.85
748A--1000 AV	2"	8	20.0	1	BR	PA	AL	M	N	13.0"	9.68"	8.45
748A--1100 AV	2"	12	18.6	1	BR	PA	AL	M	N	13.0"	9.68"	9.60
748A--1200 AV	2"	16	18	1	BR	PA	AL	M	N	13.0"	9.68"	10.65
748A--1500 AV	2"	8	20.0	1	BR	PA	AL	NO	Y	11.0"	8.19"	8.15
748A-3100 AV	3"	2	43.0	1	BR	PA	AL	NO	N	14.37"	13.37"	9.75
748A-3200 AV	3"	4	43.0	1	BR	PA	AL	NO	N	14.37"	13.37"	11.15
748A-3300 AV	3"	6	43.0	1	BR	PA	AL	NO	N	14.37"	13.37"	12.15
748A-3400 AV	3"	8	43.0	1	BR	PA	AL	NO	N	14.37"	13.37"	13.10
748A-3500 AV	3"	12	40.0	1	BR	PA	AL	NO	N	14.37"	13.37"	15.30
748A-3600 AV	3"	16	40.0	1	BR	PA	AL	NO	N	14.37"	13.37"	17.75
748A-4100 AV	3"	2	43.0	1	BR	PA	AL	F	N	14.37"	13.37"	9.75
748A-4200 AV	3"	4	43.0	1	BR	PA	AL	F	N	14.37"	13.37"	11.15
748A-4300 AV	3"	6	43.0	1	BR	PA	AL	F	N	14.37"	13.37"	12.15
748A-4400 AV	3"	8	43.0	1	BR	PA	AL	F	N	14.37"	13.37"	13.10
748A-4500 AV	3"	12	40.0	1	BR	PA	AL	F	N	14.37"	13.37"	15.30
748A-4600 AV	3"	16	40.0	1	BR	PA	AL	F	N	14.37"	13.37"	17.75
748ALT0100 AV	2"	8	20.2	1	ALT	ALT	AL	NO	N	10.37"	9.68"	5.75
748ALT0200 AV	2"	16	18.0	1	ALT	ALT	AL	NO	N	10.37"	9.68"	5.75
748ALT0300 AV	2"	32	NA	1	ALT	ALT	AL	NO	N	10.37"	9.68"	5.75
748ALT0800 AV	2"	8	20.2	1	ALT	ALT	AL	M	N	13.0"	9.68"	6.0
748ALT0900 AV	2"	16	18	1	ALT	ALT	AL	M	N	13.0"	9.68"	6.0
748ALT1400 AV	2"	8	NA	1	ALT	ALT	AL	NO	Y	11.0"	8.19"	6.25
748ALT1500 AV	2"	16	NA	1	ALT	ALT	AL	NO	Y	11.0"	8.19"	6.25
748ALT2000 AV	2"	8	NA	1	ALT	ALT	AL	M	Y	13.62"	8.19"	6.25
748ALT2100 AV	2"	16	NA	1	ALT	ALT	AL	M	Y	13.62"	8.19"	6.25

SPECIFICATION OPTIONS:

- A**—Size: N.P.T. threads
- B**—Pressure setting in oz. /sq. in.
- C**—Venting capacity / SCFH in 1000's at 2.5 P.S.I.
- D**—Vacuum setting in oz. / sq. in.
- E**—Poppet material: Brass (BR) or Teflon coated aluminum (ALT)
- F**—Seat material: Passivated aluminum (PA) or Teflon coated aluminum (ALT)
- G**—Body/Hood material: Aluminum (AL)
- H**—Dryer connection: Male (M), Female (F), No connection (NO)
- I**—Pressure discharge hood: Yes (Y) or No (N)
- J**—Height of vent (inches)
- K**—Width of vent (inches)
- L**—Shipping weight (lbs.)

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.

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