

Morrison Bros. Co.

Fig. 548 Pressure/Vacuum Vents

Specification Sheet

Fig. 548



The Morrison Fig. 548 pressure/vacuum vent with gauge hatch is designed for "normal" venting of Aboveground Storage Tanks. It allows tanks to "breathe" during filling and withdrawing operations. Pressure/Vacuum poppets seal vapors in the tank when pressure is equalized. This vent must be used in conjunction with an emergency vent and it is recommended that the opening pressure setting is set below that of the emergency vent so the normal vent relieves first.

SPECIFICATION OPTIONS:

- A**—Size: N.P.T. Threads (BSP Options Available)
- B**—Pressure setting in oz. /sq. in.
- C**—Venting capacity / CFH in 1000's at 2.5 P.S.I.
- D**—Vacuum setting in oz. / sq. in.
- E**—Poppet/Seat material: Brass (BR) or Viton Foam on Brass (BR/VF)
- F**—Body/Hood material: Brass (BR) or Aluminum (AL)
- G**—Dryer connection: Male (M), Female (F), No connection (NO)
- H**—Height of vent (inches)
- I**—Width of vent (inches)
- J**—Shipping Weight (lbs.)

Pressure weight: Lead
 Vacuum gasket: Fuel resistant material
 Screen: 30 mesh stainless steel
 Threaded gauge hatch for manual gauging access.
 Horizontal discharge and field-adjustable, tripolar orientation.

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.

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

I.D. NUMBER	A	B	C	D	E	F	G	H	I	J
548--0100 AV	2	2	20.2	1	BR	BR	NO	10.37	9.68	13.25
548--0200 AV	2	4	20.2	1	BR	BR	NO	10.37	9.68	13.75
548--0300 AV	2	6	20.2	1	BR	BR	NO	10.37	9.68	14.25
548--0400 AV	2	8	20.2	1	BR	BR	NO	10.37	9.68	14.75
548--0500 AV	2	12	18.6	1	BR	BR	NO	10.37	9.68	15.75
548--0600 AV	2	16	18	1	BR	BR	NO	10.37	9.68	17
548--0700 AV	3	2	43	1	BR	BR	NO	12.12	13.37	26.25
548--0800 AV	3	4	43	1	BR	BR	NO	12.12	13.37	27.25
548--0900 AV	3	6	43	1	BR	BR	NO	12.12	13.37	28.25
548--1000 AV	3	8	43	1	BR	BR	NO	12.12	13.37	28.75
548--1100 AV	3	12	43	1	BR	BR	NO	12.12	13.37	28.75
548--1200 AV	3	16	40	1	BR	BR	NO	12.12	13.37	33.25
548--1300 AV	2	2	20.2	1	BR	BR	M	13	9.68	13.25
548--1400 AV	2	4	20.2	1	BR	BR	M	13	9.68	13.75
548--1500 AV	2	6	20.2	1	BR	BR	M	13	9.68	14.25
548--1600 AV	2	8	20.2	1	BR	BR	M	13	9.68	14.75
548--1700 AV	2	12	18.6	1	BR	BR	M	13	9.68	15.75
548--1800 AV	2	16	18	1	BR	BR	M	13	9.68	17
548--1900 AV	3	2	43	1	BR	BR	F	12.12	13.37	26.25
548--2000 AV	3	4	43	1	BR	BR	F	12.12	13.37	27.25
548--2100 AV	3	6	43	1	BR	BR	F	12.12	13.37	28.25
548--2200 AV	3	8	43	1	BR	BR	F	12.12	13.37	28.75
548--2300 AV	3	12	40	1	BR	BR	F	12.12	13.37	29.25
548--2400 AV	3	16	40	1	BR	BR	F	12.12	13.37	33.25
548A---0100 AV	2	2	20.2	1	BR	AL	NO	10.37	9.68	7
548ABSP0100 AV	2	2	20.2	1	BR	AL	NO	10.37	9.68	7
548A---0200 AV	2	4	20.2	1	BR	AL	NO	10.37	9.68	7.75
548A---0300 AV	2	6	20.2	1	BR	AL	NO	10.37	9.68	8.5
548A---0400 AV	2	8	20.2	1	BR	AL	NO	10.37	9.68	9.5
548A---0500 AV	2	12	18.6	1	BR	AL	NO	10.37	9.68	10.5
548A---0600 AV	2	16	18	1	BR	AL	NO	10.37	9.68	11.25
548A---0700 AV	3	2	43	1	BR	AL	NO	12.12	13.37	12.25
548ABSP0700 AV	3	2	43	1	BR	AL	NO	12.12	13.37	12.25
548A---0800 AV	3	4	43	1	BR	AL	NO	12.12	13.37	13.75
548A---0900 AV	3	6	43	1	BR	AL	NO	12.12	13.37	15
548A---1000 AV	3	8	43	1	BR	AL	NO	12.12	13.37	15.5
548A---1100 AV	3	12	40	1	BR	AL	NO	12.12	13.37	15.75
548A---1200 AV	3	16	40	1	BR	AL	NO	12.12	13.37	20.5
548A---1300 AV	2	2	20.2	1	BR	AL	M	13	9.68	7
548A---1400 AV	2	4	20.2	1	BR	AL	M	13	9.68	7.75
548A---1500 AV	2	6	20.2	1	BR	AL	M	13	9.68	8.5
548A---1600 AV	2	8	20.2	1	BR	AL	M	13	9.68	9.5
548A---1700 AV	2	12	18.6	1	BR	AL	M	13	9.68	10.5
548A---1800 AV	2	16	18	1	BR	AL	M	13	9.68	11.25
548A---1900 AV	3	2	43	1	BR	AL	F	12.12	13.37	12.25
548A---2000 AV	3	4	43	1	BR	AL	F	12.12	13.37	13.75
548A---2100 AV	3	6	43	1	BR	AL	F	12.12	13.37	15
548A---2200 AV	3	8	43	1	BR	AL	F	12.12	13.37	15.5
548A---2300 AV	3	12	40	1	BR	AL	F	12.12	13.37	15.75
548A---2400 AV	3	16	40	1	BR	AL	F	12.12	13.37	20.5

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