

Model 244 Emergency Vents


Application

UL Listed emergency vent (pressure relief only) used on aboveground storage tanks, as a code requirement, to help prevent the tank from becoming over-pressurized and possibly rupturing if ever exposed to fire. The vent must be used in conjunction with a “normal vent.” Correct application of this vent requires proper vent size and selection for the tank system in order to meet the specific venting capacity.

Code Compliance:

When properly sized for the tank, this vent will conform to the requirements of the International Fire Code; National Fire Code of Canada; National Fire Protection Agency—NFPA 20, 30, 30A, 31, 37, 110; Petroleum Equipment Institute—PEI RP200, PEI RP800; Underwriters Laboratories Inc.—UL-142, UL-2085, UL-2244; Underwriters Laboratories of Canada—CAN/ULC S601, CAN/ULC S602, CAN/ULC S652

Approvals

California Air Resource Board (CARB) Phase 1 Enhanced Vapor Recovery (EVR) AST Certified Products (VR-402-B) 

Underwriters Laboratories Inc. UL-2583



Item Number	A	B	C	D	E	F	G	Overall Diameter	Height	Weight	Screen
244OM-0020 AV	2	31,917	M	8	B	A	B	3"	2.96"	1.0	
244OMS0020 AV	2	24,069	M	8	B	A	B	3"	2.96"	1.0	S
244OMB0020 AV	2	31,917	M	8	B	A	B	3"	2.96"	1.0	
244OMBS0020 AV	2	24,069	M	8	B	A	B	3"	2.96"	1.0	S
244OMA0020 AV	This model is no longer available. Refer to 245M--0200 AV for equivalent.										
244OMA0030AVEVR	2	31,917	M	16	A	B	AL	3"	2.96"	0.40	
244OMAS0020 AV	This model is no longer available. Refer to 245MS-0200 AV for equivalent.										
244OMAS030AVEVR	2	24,069	M	16	A	B	AL	3"	2.96"	0.40	S
244OMAB0020 AV	This model is no longer available. Refer to 245MB-0200 AV for equivalent.										
244OMABS0020 AV	This model is no longer available. Refer to 245MSB0200 AV for equivalent.										
244O--0050 AV	3	60,994		8	I	A	AL	5.8"	3"	7.0	
244OS-0050 AV	3	51,076		8	I	A	AL	5.8"	3"	7.0	S
244O--0060 AV	3	60,994		16	I	A	AL	5.8"	3.5"	11.5	
244O--0060AVEVR	3	60,994		16	I	B	AL	5.8"	3.5"	11.5	
244OS-0060 AV	3	51,076		16	I	A	AL	5.8"	3.5"	11.5	S
244OM-0050 AV	3	60,994	M	8	I	A	AL	5.8"	3.79"	6.4	
244OM-0060 AV	3	60,994	M	16	I	A	AL	5.8"	4.5"	11.0	
244OM-0060AVEVR	3	60,994	M	16	I	B	AL	5.8"	4.5"	11.0	
244OMBS0050 AV	3	51,076	B	8	I	A	AL	5.8"	3.79"	7.0	S
244OMS0050 AV	3	51,076	M	8	I	A	AL	5.8"	3.79"	7.0	S
244OMS0060 AV	3	51,076	M	16	I	A	AL	5.8"	4.5"	7.0	S
244OMS0060AVEVR	3	51,076	M	16	I	B	AL	5.8"	4.5"	11.0	S

SPECIFICATION OPTIONS:

- A**—Size (inches)
- B**—Venting capacity/SCFH
- C**—Mounting connection: Male N.P.T.(M), Female N.P.T. (BLANK), BSP (B), Flanged (F)
- D**—Pressure settings: 8 or 16 oz/in². Pressure required to open vent
- E**—Cover: Cast iron powder coated (I), brass (B), hard coated aluminum (A)
- F**—Seat material: Viton A (A) or Viton B (B)
- G**—Body material: Aluminum (AL), brass (B), or iron (I)
- Diameter**—Dimension across vent (inches)
- Height**—Dimension from base to top when closed (inches)
- Weight**—Shipping weight (lbs)
- Screen (3 mesh stainless steel)**—Yes (S), No (blank)
- Bolt**—Zinc plated steel



Model 244 Emergency Vents (continued)

Item Number	A	B	C	D	E	F	G	Overall Diameter	Height	Weight	Screen
244O--0100 AV	4	131,700		8	I	A	AL	9"	3.4"	10.0	
244O--0170 AV	4	131,700		16	I	A	AL	9"	4.29"	18.0	
244O--0170AVEVR	4	131,700		16	I	B	AL	9"	4.29"	18.0	
244OB-0100 AV	4	131,700	B	8	I	A	AL	9"	3.4"	10.0	
244OB-0170 AV	4	131,700	B	16	I	A	AL	9"	4.29"	18.0	
244OS-0100 AV	4	117,160		8	I	A	AL	9"	3.4"	10.0	S
244OS-0170 AV	4	117,160		16	I	A	AL	9"	4.29"	18.0	S
244OS-0170AVEVR	4	117,160		16	I	B	AL	9"	4.29"	18.0	S
244OSBSP0100 AV	4	117,160	B	8	I	A	AL	9"	3.4"	10.0	S
244OF-0170 AV †	4	131,700	F	16	I	A	AL	9"	3.4"	20.0	
244OF-0170AVEVR	4	131,700	F	16	I	B	AL	9"	3.4"	20.0	
244OF-0600 AV †	4	131,700	F	8	I	A	AL	9"	2.5"	11.0	
244OF-0600 AVE	4	131,700	F	8	I	B	AL	9"	2.5"	11.0	
244OFS0170 AV	4	117,160	F	16	I	A	AL	9"	3.4"	20.0	S
244OFS0600 AV	4	117,160	F	8	I	A	AL	9"	2.5"	11.0	S
244OM-0100 AV	4	131,700	M	8	I	A	AL	9"	4.79"	10.0	
244OM-0170 AV	4	131,700	M	16	I	A	AL	9"	5.70"	19.0	
244OM-0170AVEVR	4	131,700	M	16	I	B	AL	9"	5.70"	19.0	
244OMB0100 AV	4	131,700	B	8	I	A	AL	9"	4.79"	10.0	
244OMB0170 AV	4	131,700	B	16	I	A	AL	9"	5.70"	19.0	
244OMS0170 AV	4	117,160	B	16	I	A	AL	9"	5.70"	19.0	S
244OMS0100 AV	4	117,160	M	8	I	A	AL	9"	4.79"	10.0	S
244OMS0170 AV	4	117,160	M	16	I	A	AL	9"	5.70"	19.0	S
244OMS0170 AV	4	117,160	M	16	I	B	AL	9"	5.70"	19.0	S
244OMS0170AVEVR	4"	117,160	M	16	I	B	AL	9"	5.70"	19.0	S
244OMSB0100 AV	4	117,160	B	8	I	A	AL	9"	4.79"	10.0	S
Flange = 9" OD; eight (8) .75" diameter holes on 7.5" diameter B.C.											
244O--0800 AV	5	190,087		8	I	A	AL	10"	3.8"	14.0	
244O--0900 AV	5	190,087		16	I	A	AL	10"	4.8"	27.0	
244O--0900AVEVR	5	190,087		16	I	B	AL	10"	4.8"	27.0	
244OS-0800 AV	5	165,756		8	I	A	AL	10"	3.8"	14.0	S
244OS-0900 AV	5	165,756		16	I	A	AL	10"	4.8"	27.0	S
244OS-0900AVEVR	5	165,756		16	I	B	AL	10"	4.8"	27.0	S
244OM-0800 AV	5	190,087	M	8	I	A	AL	10"	5.8"	15.0	
244OM-0900 AV	5	190,087	M	16	I	A	AL	10"	6.8"	28.0	
244OM-0900AVEVR	5	190,087	M	16	I	B	AL	10"	6.8"	28.0	
244OMS0800 AV	5	165,756	M	8	I	A	AL	10"	5.8"	15.0	S
244OMS0900 AV	5	165,756	M	16	I	A	AL	10"	6.8"	28.0	S
244OMS0900AVEVR	5	165,756	M	16	I	B	AL	10"	6.8"	28.0	S

SPECIFICATION OPTIONS:

- A**—Size (inches)
- B**—Venting capacity/SCFH
- C**—Mounting connection: Male N.P.T.(M), Female N.P.T. (BLANK), BSP (B), Flanged (F)
- D**—Pressure settings: 8 or 16 oz/in². Pressure required to open vent
- E**—Cover: Cast iron powder coated (I), brass (B), hard coated aluminum (A)
- F**—Seat material: Viton A (A) or Viton B (B)
- G**—Body material: Aluminum (AL), brass (B), or iron (I)
- Diameter**—Dimension across vent (inches)
- Height**—Dimension from base to top when closed (inches)
- Weight**—Shipping weight (lbs)
- Screen (3 mesh stainless steel)**—Yes (S), No (blank)
- Bolt**—Zinc plated steel

† Indicates model is available in a kit.



570 E. 7th Street, P.O. Box 238 | Dubuque, IA 52004-0238

t. 563.583.5701 | 800.553.4840 | f. 563.583.5028

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MORRISON BROS. CO.

Model 244 Emergency Vents (continued)

Item Number	A	B	C	D	E	F	G	Overall Diameter	Height	Weight	Screen
EVR 244O--0200 AV	6	299,684		8	I	A	AL	11"	3.9"	20.0	
EVR 244O--0200AVEVR	6	299,684		8	I	B	AL	11"	3.9"	20.0	
EVR 244O--0400 AV	6	299,684		16	I	A	AL	11"	4.9"	36.0	
EVR 244O--0400AVEVR	6	299,684		16	I	B	AL	11"	4.9"	36.0	
EVR 244OB-0200 AV	6	299,684	B	8	I	A	AL	11"	3.9"	20.0	
EVR 244OS-0200 AV	6	250,236		8	I	A	AL	11"	3.9"	19.0	S
EVR 244OS-0200AVEVR	6	250,236		8	I	B	AL	11"	3.9"	20.0	S
EVR 244OS-0400 AV	6	250,236		16	I	A	AL	11"	4.9"	36.0	S
EVR 244OS-0400AVEVR	6	250,236		16	I	B	AL	11"	4.9"	36.0	S
EVR 244OSBSP0200 AV	6	250,236	B	8	I	A	AL	11"	3.9"	20.0	S
EVR 244OF-0050 AV †	6	299,684	F	8	I	A	AL	11"	3.2"	22.0	
EVR 244OF-0050AVEVR	6	299,684	F	8	I	A	AL	11"	3.2"	22.0	
EVR 244OF-0075 AV †	6	299,684	F	16	I	A	AL	11"	4.2"	38.0	
EVR 244OF-0075AVEVR	6	299,684	F	16	I	B	AL	11"	4.2"	38.0	
EVR 244OFS0050 AV	6	250,236	F	8	I	A	AL	11"	3.2"	22.0	S
EVR 244OFS0075AV	6	250,236	F	16	I	A	AL	11"	4.2"	38.0	S
EVR 244OM-0200 AV	6	299,684	M	8	I	A	AL	11"	5.9"	21.0	
EVR 244OM-0200AVEVR	6	299,684	M	8	I	B	AL	11"	5.9"	21.0	
EVR 244OM-0400 AV	6	299,684	M	16	I	A	AL	11"	6.9"	37.0	
EVR 244OM-0400AVEVR	6	299,684	M	16	I	B	AL	11"	6.9"	37.0	
EVR 244OMBS0400 AV	6	250,236	M	16	I	A	AL	11"	6.9"	37.0	S
EVR 244OMBSP0200 AV	6	299,684	MB	8	I	A	AL	11"	5.9"	21.0	
EVR 244OMBSP0400 AV	6	299,684	MB	16	I	A	AL	11"	6.9"	37.0	
EVR 244OMS0200 AV	6	250,236	M	8	I	A	AL	11"	5.9"	21.0	S
EVR 244OMS0200AVEVR	6	250,236	M	8	I	B	AL	11"	5.9"	21.0	S
EVR 244OMS0400AV	6	250,236	M	16	I	A	AL	11"	6.9"	37.0	S
EVR 244OMS0400AVEVR	6	250,236	M	16	I	B	AL	11"	6.9"	37.0	S
EVR 244OMSB0200 AV	6	250,236	MB	8	I	A	AL	11"	5.9"	21.0	S

Flange = 11" OD ; eight (8) .88" Diameter holes on 9.5" diameter B.C.

SPECIFICATION OPTIONS:

- A**—Size (inches)
- B**—Venting capacity/SCFH
- C**—Mounting connection: Male N.P.T.(M), Female N.P.T. (BLANK), BSP (B), Flanged (F)
- D**—Pressure settings: 8 or 16 oz/in². Pressure required to open vent
- E**—Cover: Cast iron powder coated (I), brass (B), hard coated aluminum (A)
- F**—Seat material: Viton A (A) or Viton B (B)
- G**—Body material: Aluminum (AL), brass (B), or iron (I)
- Diameter**—Dimension across vent (inches)
- Height**—Dimension from base to top when closed (inches)
- Weight**—Shipping weight (lbs)
- Screen (3 mesh stainless steel)**—Yes (S), No (blank)

† Indicates model is available in a kit.



6" vent (244O)



6" vent (244OM)

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.

Model 244 Emergency Vents (continued)

Item Number	A	B	C	D	E	F	G	Overall Diameter	Height	Weight	Screen
244O--0600 AV	8	503,517		8	I	A	AL	13.5"	4.6"	33.0	
244O--0600 AVE	8	503,517		8	I	B	AL	13.5"	4.6"	33.0	
244O--0700 AV	8	503,517		16	I	A	AL	13.5"	5.8"	62.0	
244O--0700 AVEVR	8	503,517		16	I	B	AL	13.5"	5.8"	62.0	
244OF-0100 AV †	8	503,517	F	8	I	A	AL	13.5"	3.3"	33.0	
244OF-0100AVEVR	8	503,517	F	8	I	B	AL	13.5"	3.3"	33.0	
244OF-0200 AV †	8	503,517	F	16	I	A	AL	13.5"	4.5"	67.0	
244OF-0200AVEVR	8	503,517	F	16	I	B	AL	13.5"	4.5"	67.0	
244OM-0600 AV	8	503,517	M	8	I	A	AL	13.5"	5.8"	34.0	
244OM-0600 AVEVR	8	503,517	M	8	I	B	AL	13.5"	5.8"	34.0	
244OM-0700 AV	8	503,517	M	16	I	A	AL	13.5"	6.9"	63.0	
244OM-0700 AVEVR	8	503,517	M	16	I	B	AL	13.5"	6.9"	63.0	
244OMB0700 AV	8	503,517	M	16	I	A	AL	13.5"	6.9"	63.0	
244OMBSP0600 AV	8	503,517	M	8	I	B	AL	13.5"	5.8"	34.0	
Flange = 14" OD ; eight (8) .88" Diameter holes on 11.75" diameter B.C.											
244OF-0300 AV †	10	881,670	F	2.5	I	A	AL	16"	3.5"	25.0	
244OF-0400 AV †	10	890,275	F	8	I	A	AL	16"	3.4"	57.0	
244OF-0400AVEVR	10	890,275	F	8	I	B	AL	16"	3.4"	57.0	
244OF-0500 AV †	10	890,275	F	16	I	A	AL	16"	4.6"	103.0	
244OF-0500AVEVR	10	890,275	F	16	I	B	AL	16"	4.6"	103.0	

SPECIFICATION OPTIONS:

- A**—Size (inches)
- B**—Venting capacity / SCFH at 2.5 P.S.I.
- C**—Mounting connection: Male N.P.T.(M), Female N.P.T. (BLANK), BSP (B), Flanged (F)
- D**—Pressure settings: 8 or 16 oz/in². Pressure required to open vent
- E**—Cover: Cast iron powder coated (I), brass (B), hard coated aluminum (A)
- F**—Seat material: Viton A (A) or Viton B (B)
- G**—Body material: Aluminum (AL), brass (B), or iron (I)
- Diameter**—Dimension across vent (inches)
- Height**—Dimension from base to top when closed (inches)
- Weight**—Shipping weight (lbs)
- Screen (3 mesh stainless steel)**—Yes (S), No (blank)

† Indicates model is available in a kit.

Size	Item Number	Flanged Kits	Bolt Size
4"	244OF-04080 AK	Includes 244OF-0600 AV vent, flange adaptor, gasket, and nuts/bolts	0.625" dia; 2" length
	244OF-04160 AK	Includes 244OF-0170AVEVR vent, flange adaptor, gasket, and nuts/bolts	
6"	244OF-06080 AK	Includes 244OF-0050AVEVR vent, flange adaptor, gasket, and nuts/bolts	0.75" dia; 2.75" length
	244OF-06160 AK	Includes 244OF-0075AVEVR vent, flange adaptor, gasket, and nuts/bolts	
8"	244OF-08080 AK	Includes 244OF-0100AVEVR vent, flange adaptor, gasket, and nuts/bolts	0.75" dia; 2.75" length
	244OF-08160 AK	Includes 244OF-0200AVEVR vent, flange adaptor, gasket, and nuts/bolts	
10"	244OF-10025 AK	Includes 244OF-0300 AV vent, flange adaptor, gasket, and nuts/bolts	0.875" dia; 3" length
	244OF-10080 AK	Includes 244OF-0400AVEVR vent, flange adaptor, gasket, and nuts/bolts	
	244OF-10160 AK	Includes 244OF-0500AVEVR vent, flange adaptor, gasket, and nuts/bolts	



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