

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 1, 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, Morrison venting guide



2" vent (244OMA)



3" vent (244OM)



3" vent (244O)

EVR

EVR

EVR

EVR

Item Number	A	B	C	D	E	F	G	Diameter	Height	Weight	Screen
244OM-0020 AV	2	31,917	M	8	B	A	B	3	2 ³¹ / ₃₂	1.0	
244OMS0020 AV	2	24,069	M	8	B	A	B	3	2 ³¹ / ₃₂	1.0	S
244OMB0020 AV	2	31,917	M	8	B	A	B	3	2 ³¹ / ₃₂	1.0	
244OMBS0020 AV	2	24,069	M	8	B	A	B	3	2 ³¹ / ₃₂	1.0	S
244OMA0020 AV	2	31,917	M	8	A	A	AL	3	2 ³¹ / ₃₂	0.40	
244OMA0030AVEVR	2	31,917	M	16	A	B	AL	3	2 ³¹ / ₃₂	0.40	
244OMAS0020 AV	2	24,069	M	8	A	A	AL	3	2 ³¹ / ₃₂	0.40	S
244OMAS030AVEVR	2	24,069	M	16	A	B	AL	3	2 ³¹ / ₃₂	0.40	S
244OMAB0020 AV	2	31,917	M	8	A	A	AL	3	2 ³¹ / ₃₂	0.40	
244OMABS0020 AV	2	24,069	M	8	A	A	AL	3	2 ³¹ / ₃₂	0.40	S
244O--0050 AV	3	60,994		8	I	A	AL	5 ⁵¹ / ₆₄	3	7.0	
244OS-0050 AV	3	51,076		8	I	A	AL	5 ⁵¹ / ₆₄	3	7.0	S
244O--0060 AV	3	60,994		16	I	A	AL	5 ⁵¹ / ₆₄	3 ¹ / ₂	11.0	
244OS-0060 AV	3	51,076		16	I	A	AL	5 ⁵¹ / ₆₄	3 ¹ / ₂	11.0	S
244OM-0050 AV	3	60,994	M	8	I	A	AL	5 ⁵¹ / ₆₄	3 ⁵¹ / ₆₄	7.0	
244OM-0060 AV	3	60,994	M	16	I	A	AL	5 ⁵¹ / ₆₄	4 ¹ / ₂	11.0	
244OM-0060AVEVR	3	60,994	M	16	I	B	AL	5 ⁵¹ / ₆₄	4 ¹ / ₂	11.0	
244OMBS0050 AV	3	51,076	B	8	I	A	AL	5 ⁵¹ / ₆₄	3 ⁵¹ / ₆₄	7.0	S
244OMI0050 AV	3	60,994	M	8	I	A	I	5 ⁵¹ / ₆₄	3 ⁵¹ / ₆₄	8.0	
244OMS0050 AV	3	51,076	M	8	I	A	AL	5 ⁵¹ / ₆₄	3 ⁵¹ / ₆₄	7.0	S
244OMS0060 AV	3	51,076	M	16	I	A	AL	5 ⁵¹ / ₆₄	4 ¹ / ₂	11.0	S
244OMS0060AVEVR	3	51,076	M	16	I	B	AL	5 ⁵¹ / ₆₄	4 ¹ / ₂	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	Diameter	Height	Weight	Screen
	244O--0100 AV	4	131,700		8	I	A	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	10.0	
	244O--0170 AV	4	131,700		16	I	A	AL	7 ⁷ / ₆₄	4 ¹⁹ / ₆₄	18.0	
EVR	244O--0170AVEVR	4	131,700		16	I	B	AL	7 ⁷ / ₆₄	4 ¹⁹ / ₆₄	18.0	
	244OB-0100 AV	4	131,700	B	8	I	A	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	10.0	
	244OB-0170 AV	4	131,700	B	16	I	A	AL	7 ⁷ / ₆₄	4 ¹⁹ / ₆₄	18.0	
	244OS-0100 AV	4	117,160		8	I	A	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	10.0	S
	244OS-0170 AV	4	117,160		16	I	A	AL	7 ⁷ / ₆₄	4 ¹⁹ / ₆₄	18.0	S
EVR	244OS-0170AVEVR	4	117,160		16	I	B	AL	7 ⁷ / ₆₄	4 ¹⁹ / ₆₄	18.0	S
	244OSBSP0100 AV	4	117,160	B	8	I	A	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	10.0	S
	244OF-0170 AV	4	131,700	F	16	I	A	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	20.0	
EVR	244OF-0170AVEVR	4	131,700	F	16	I	B	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	200	
	244OF-0600 AV	4	131,700	F	8	I	A	AL	7 ⁷ / ₆₄	2 ¹ / ₂	11.0	
	244OF-0600 AVE	4	131,700	F	8	I	B	AL	7 ⁷ / ₆₄	2 ¹ / ₂	11.0	
	244OFS0170 AV	4	117,160	F	16	I	A	AL	7 ⁷ / ₆₄	3 ¹³ / ₃₂	20.0	S
	244OFS0600 AV	4	117,160	F	8	I	A	AL	7 ⁷ / ₆₄	2 ¹ / ₂	11.0	S
	244OM-0100 AV	4	131,700	M	8	I	A	AL	7 ⁷ / ₆₄	4 ⁵¹ / ₆₄	10.0	
	244OM-0170 AV	4	131,700	M	16	I	A	AL	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	19.0	
EVR	244OM-0170AVEVR	4	131,700	M	16	I	B	AL	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	19.0	
	244OMB0100 AV	4	131,700	B	8	I	A	AL	7 ⁷ / ₆₄	4 ⁵¹ / ₆₄	10.0	
	244OMB0170 AV	4	131,700	B	16	I	A	AL	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	19.0	
	244OMBS0170 AV	4	117,160	B	16	I	A	AL	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	19.0	S
	244OMI0100 AV	4	131,700	M	8	I	A	I	7 ⁷ / ₆₄	4 ⁵¹ / ₆₄	13.0	
	244OMI0170 AV	4	131,700	M	16	I	A	I	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	22.0	
	244OMS0100 AV	4	117,160	M	8	I	A	AL	7 ⁷ / ₆₄	4 ⁵¹ / ₆₄	10.0	S
	244OMS0170 AV	4	117,160	M	16	I	A	AL	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	190	S
	244OMS0170 AV	4	117,160	M	16	I	B	AL	7 ⁷ / ₆₄	5 ⁴⁵ / ₆₄	190	S
	244OMS0100 AV	4	117,160	B	8	I	A	AL	7 ⁷ / ₆₄	4 ⁵¹ / ₆₄	100	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	8 ¹³ / ₆₄	4	18.0	
	244O--0900 AV	5	190,087		16	I	A	AL	8 ¹³ / ₆₄	4 ⁵¹ / ₆₄	27.0	
EVR	244O--0900AVEVR	5	190,087		16	I	B	AL	8 ¹³ / ₆₄	4 ⁵¹ / ₆₄	27.0	
	244OS-0800 AV	5	165,756		8	I	A	AL	8 ¹³ / ₆₄	4	18.0	S
	244OS-0900 AV	5	165,756		16	I	A	AL	8 ¹³ / ₆₄	4 ⁵¹ / ₆₄	27.0	S
EVR	244OS-0900AVEVR	5	165,756		16	I	B	AL	8 ¹³ / ₆₄	4 ⁵¹ / ₆₄	27.0	S
	244OM-0800 AV	5	190,087	M	8	I	A	AL	8 ¹³ / ₆₄	6	190.	
	244OM-0900 AV	5	190,087	M	16	I	A	AL	8 ¹³ / ₆₄	6 ⁵¹ / ₆₄	28.0	
EVR	244OM-0900AVEVR	5	190,087	M	16	I	B	AL	8 ¹³ / ₆₄	6 ⁵¹ / ₆₄	28.0	
	244OMS0800 AV	5	165,756	M	8	I	A	AL	8 ¹³ / ₆₄	6	19.0	S
	244OMS0900 AV	5	165,756	M	16	I	A	AL	8 ¹³ / ₆₄	6 ⁵¹ / ₆₄	28.0	S
EVR	244OMS0900AVEVR	5	165,756	M	16	I	B	AL	8 ¹³ / ₆₄	6 ⁵¹ / ₆₄	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



4" vent



4" vent (flanged)



5" vent

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	Diameter	Height	Weight	Screen
	244O-0200 AV	6	299,684		8	I	A	AL	9 ⁷ / ₆₄	4	20.0	
EVR	244O-0200AVEVR	6	299,684		8	I	B	AL	9 ⁷ / ₆₄	4	20.0	
	244O-0400 AV	6	299,684		16	I	A	AL	9 ⁷ / ₆₄	4 ⁵⁷ / ₆₄	36.0	
EVR	244O-0400AVEVR	6	299,684		16	I	B	AL	9 ⁷ / ₆₄	4 ⁵⁷ / ₆₄	36.0	
	244OB-0200 AV	6	299,684	B	8	I	A	AL	9 ⁷ / ₆₄	4	20.0	
	244OS-0200 AV	6	250,236		8	I	A	AL	9 ⁷ / ₆₄	3 ⁵⁷ / ₆₄	19.0	S
EVR	244OS-0200AVEVR	6	250,236		8	I	B	AL	9 ⁷ / ₆₄	4	20.0	S
	244OS-0400 AV	6	250,236		16	I	A	AL	9 ⁷ / ₆₄	4 ⁵⁷ / ₆₄	36.0	S
EVR	244OS-0400AVEVR	6	250,236		16	I	B	AL	9 ⁷ / ₆₄	4 ⁵⁷ / ₆₄	36.0	S
	244OSBSP0200 AV	6	250,236	B	8	I	A	AL	9 ⁷ / ₆₄	4	20.0	S
	244OF-0050 AV	6	299,684	F	8	I	A	AL	9 ⁷ / ₆₄	3 ¹⁹ / ₆₄	22.0	
EVR	244OF-0050AVEVR	6	299,684	F	8	I	A	AL	9 ⁷ / ₆₄	3 ¹⁹ / ₆₄	22.0	
	244OF-0075 AV	6	299,684	F	16	I	A	AL	9 ⁷ / ₆₄	4 ¹³ / ₆₄	38.0	
EVR	244OF-0075AVEVR	6	299,684	F	16	I	B	AL	9 ⁷ / ₆₄	4 ¹³ / ₆₄	38.0	
	244OFS0050 AV	6	250,236	F	8	I	A	AL	9 ⁷ / ₆₄	3 ¹⁹ / ₆₄	22.0	S
	244OFS0075AV	6	250,236	F	16	I	A	AL	9 ⁷ / ₆₄	4 ¹³ / ₆₄	38.0	S
	244OM-0200 AV	6	299,684	M	8	I	A	AL	9 ⁷ / ₆₄	6	21.0	
EVR	244OM-0200AVEVR	6	299,684	M	8	I	B	AL	9 ⁷ / ₆₄	6	21.0	
	244OM-0400 AV	6	299,684	M	16	I	A	AL	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	37.0	
EVR	244OM-0400AVEVR	6	299,684	M	16	I	B	AL	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	37.0	
	244OMBS0400 AV	6	250,236	M	16	I	A	AL	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	37.0	S
	244OMBSP0200 AV	6	299,684	MB	8	I	A	AL	9 ⁷ / ₆₄	6	21.0	
	244OMBSP0400 AV	6	299,684	MB	16	I	A	AL	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	37.0	
	244OMI0200 AV	6	299,684	M	8	I	A	I	9 ⁷ / ₆₄	5 ⁵⁷ / ₆₄	26.0	
	244OMI0400 AV	6	299,684	M	16	I	A	I	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	43.0	
	244OMS0200 AV	6	250,236	M	8	I	A	AL	9 ⁷ / ₆₄	6	21.0	S
EVR	244OMS0200AVEVR	6	250,236	M	8	I	B	AL	9 ⁷ / ₆₄	6	21.0	S
	244OMS0400 AV	6	250,236	M	16	I	A	AL	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	37.0	S
EVR	244OMS0400AVEVR	6	250,236	M	16	I	B	AL	9 ⁷ / ₆₄	6 ⁵⁷ / ₆₄	37.0	S
	244OMS0200 AV	6	250,236	MB	8	I	A	AL	9 ⁷ / ₆₄	6	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)



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)

EVR
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Item Number	A	B	C	D	E	F	G	Diameter	Height	Weight	Screen
244O-0600 AV	8	503,517		8	I	A	AL	11	5 ¹³ / ₆₄	36.0	
244O-0600 AVE	8	503,517		8	I	B	AL	11	5 ¹³ / ₆₄	36.0	
244O-0700 AV	8	503,517		16	I	A	AL	11	6 ¹⁹ / ₆₄	62.0	
244O-0700 AVEVR	8	503,517		16	I	B	AL	11	6 ¹⁹ / ₆₄	62.0	
244OF-0100 AV	8	503,517	F	8	I	A	AL	11	3 ⁵⁷ / ₆₄	36.0	
244OF-0100 AVEVR	8	503,517	F	8	I	B	AL	11	3 ⁵⁷ / ₆₄	36.0	
244OF-0200 AV	8	503,517	F	16	I	A	AL	11	5	67.0	
244OF-0200 AVEVR	8	503,517	F	16	I	B	AL	11	5	67.0	
244OM-0600 AV	8	503,517	M	8	I	A	AL	11	6 ¹³ / ₃₂	37.0	
244OM-0600 AVEVR	8	503,517	M	8	I	B	AL	11	6 ¹³ / ₃₂	37.0	
244OM-0700 AV	8	503,517	M	16	I	A	AL	11	7 ¹³ / ₃₂	63.0	
244OM-0700 AVEVR	8	503,517	M	16	I	B	AL	11	7 ¹³ / ₃₂	63.0	
244OMB0700 AV	8	503,517	M	16	I	A	AL	11	7 ¹³ / ₃₂	63.0	
244OMBSP0600 AV	8	503,517	M	8	I	B	AL	11	6 ¹³ / ₃₂	37.0	
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	13 ³⁹ / ₆₄	3½	25.0	
244OF-0400 AV	10	890,275	F	8	I	A	AL	13 ³⁹ / ₆₄	3 ⁴⁵ / ₆₄	66.0	
244OF-0400 AVEVR	10	890,275	F	8	I	B	AL	13 ³⁹ / ₆₄	3 ⁴⁵ / ₆₄	66.0	
244OF-0500 AV	10	890,275	F	16	I	A	AL	13 ³⁹ / ₆₄	4 ³⁹ / ₆₄	103.0	
244OF-0500 AVEVR	10	890,275	F	16	I	B	AL	13 ³⁹ / ₆₄	4 ³⁹ / ₆₄	103.0	

EVR
EVR

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)



8" vent (244OM)



10" vent (244OF)

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

t. 563.583.5701 | 800.553.4840 | f. 563.583.5028

www.morbros.com

MORRISON BROS. CO.