

94200 Emergency Vent and Manhole Cover

The Shand & Jurs 94200 Emergency Vent and Manhole Cover is an economical solution to present day emergency venting requirements. It is designed to relieve excessive internal pressure in liquid storage tanks. Its economical price provides excellent protection against costly tank roof rupture repair. The sizes are 16", 20", 24", 30" and 36" ANSI 150# (ANSI) connections and 20" and 24" API 650 (API) roof manhole connections.

The 94200 is available with low base for liquid overflow. When specified, elongated guides and special stops can be provided to limit pallet lift. The pallet guide is deep enough to assure proper reseating of pallet after pressure relieving at lower overpressures. Pallet will reseal when tank pressure drops below set pressure.

For tank venting or examination, the pallet may be removed off its base offering a clear unobstructed passage. A retaining cable is provided to fasten the pallet to the base.



Features

- Easy installation, convenient handling
- Tank examination requires no gasket replacement or unbolting
- Manhole opening available in 16", 20", 24", 30", & 36"
- Materials include Aluminum, Steel & 316 Stainless Steel
- ATEX Certification available for hazardous locations
- CE Certifications available for ordinary locations

94200

Emergency Vent and Manhole Cover

SHAND & JURS

Specifications

Pressure Setting:

Standard for Aluminum Pallet:

16" - 24" - 0.865 oz./in.²; 30" & 36" - 1.1 oz./in.²

Standard for Stainless Steel & Carbon Steel Pallet:

16"-1.6 oz./in.²; 20" - 36" - 1.5 oz./in.²

Standard Maximum:

6.0 oz./in.² for 24" - 36" size

8.0 oz./in.² for 16" & 20" sizes

Higher Settings Available

Materials of Construction (Options)

Base:

Steel, Aluminum or 316 Stainless Steel

Diaphragm Seat:

Aluminum or 316 Stainless Steel

Diaphragm:

FEP (Fluorinated Ethylene Propylene), FKM (Fluoroelastomer),

NBR (Nitrile-Butadiene)

Standard Materials of Construction			
Pallet	Aluminum	Steel	316 SS
Hardware	Plated Steel	Plated Steel	316 SS
Load Weight*	Steel/Lead	Steel/Lead	Steel/Lead

*316 SS Weights Available

Dimensions

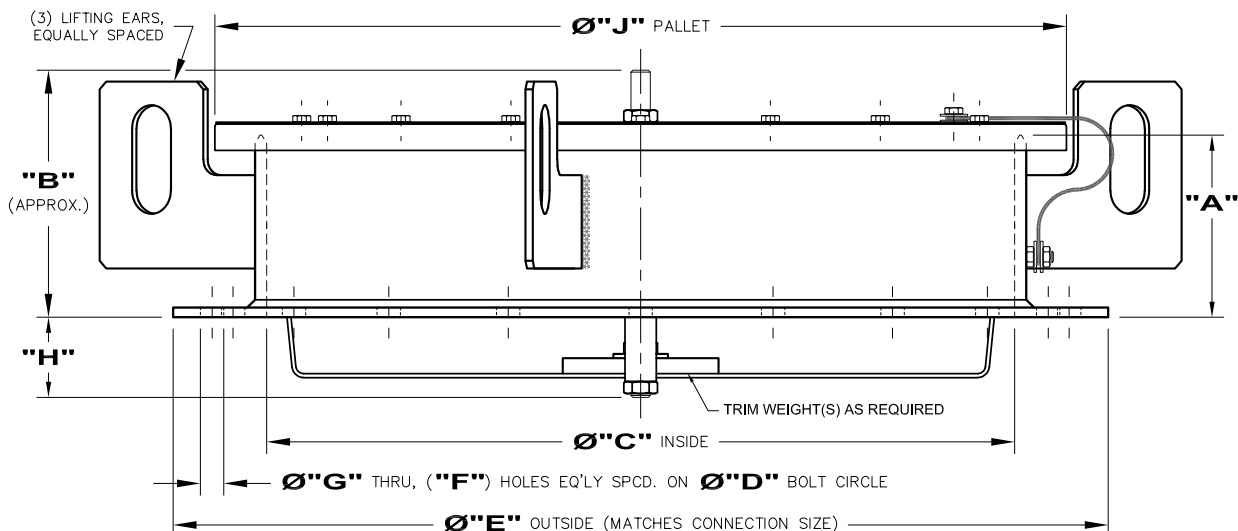
Vent Size	Connection Matching Size	"B" Note 1	"C"	"D" Bolt Circle	"E"	"F" Holes	"G"	"H" Max	"J" Pallet
16"	16" ANSI	8 5/16	16	21 1/4	23 1/2	16	1 1/8	0	18 3/4
20"	20" ANSI	9 1/4	20	25	27 1/2	20	1 1/4	3	23 5/16
20"	24" ANSI	9 1/4	20	29 1/2	32	20	1 3/8	3	23 5/16
24"	24" ANSI	9 1/4	24	29 1/2	32	20	1 3/8	3	27 5/16
30"	30" ANSI	9 1/4	30	36	38 3/4	28	1 3/8	5	33 5/8
36"	36" ANSI	9 1/4	36	42 3/4	46	32	1 5/8	7	40 3/4
20"	20" API	9 1/4	20	23 1/2	26	16	3/4	3	23 5/16
20"	24" API	9 1/4	20	27 1/2	30	20	3/4	3	23 5/16
24"	24" API	9 1/4	24	27 1/2	30	20	3/4	3	27 5/16

"A" = 6 1/4" for High and Limited Lift Base "A" = 2 1/8" for Low Base

"H" = 3 1/2 for Low Base

NOTE 1. ACTUAL HEIGHT DEPENDANT ON SET POINT.

2. ANSI 150# (ANSI); API 650 (API)



All designs subject to change. Certified dimensions and specifications available upon request.

SHAND & JURS

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Rev: 94200-4A

94200 Ordering Guide

Model Number Selection

The model number will consist of a base number **94200** followed by 8 digit numbers. These digits will represent 7 option tables.

94200 - AB - CD - EF

Ordering Information

Specify:

1. Model 94200 Emergency Vent & Manhole Cover
2. Size and Body and Pallet Material
3. Pressure Set Point
4. Tank Product and Temperature
5. Flange Type
6. Cleaning
7. To specify CE for Ordinary EU Locations use Table H2 or H3
8. ATEX Certification for II 1 G Ex h II B T1...T6 Ga EU Locations, use Table H4 or H5



Table A - Size (Mounting Flange)

Option A	Description
1	16" Opening 16" Flange
2	20" Opening 20" Flange
3	20" Opening 24" Flange
4	24" Opening 24" Flange
5	30" Opening 30" Flange
6	36" Opening 36" Flange

Table C - Pallet Selection

Option C	Description
1	16" Pallet & Diaph.
2	20" Pallet & Diaph.
4	24" Pallet & Diaph.
5	30" Pallet & Diaph.
6	36" Pallet & Diaph.

Table B - Base Material & Type, Flange Drilling

Option B	Base Material & Type	Flange Drilling
A	Standard; STEEL	ANSI
B	Standard; ALUM	
C	Standard; 316SS	
D	Standard; STEEL	API-650**
E	Standard; ALUM	
F	Standard; 316SS	
G	Standard; STEEL	EN1092-1 PN10 FF
H	Standard; ALUM	
I	Standard; 316SS	
J	Limited Lift; STEEL	ANSI
K	Limited Lift; ALUM	
L	Limited Lift; 316SS	
M	Limited Lift; STEEL	API-650**
N	Limited Lift; ALUM	
O	Limited Lift; 316SS	
P	Limited Lift; STEEL	EN1092-1 PN10 FF
Q	Limited Lift; ALUM	
R	Limited Lift; 316SS	

Table D - Pallet Seal Material & Range

Option D	Base Drilling
A	FEP / Buna; STD
B	FEP / Buna; STD to 2 oz/in ²
C	FEP / Buna; 2 oz/in ² to 4 oz/in ²
D	FEP / Buna; 4 oz/in ² to 8 oz/in ²
E	FEP / Buna; 8 oz/in ² to 12 oz/in ²
F	FEP / GPTFE; STD
G	FEP / GPTFE; STD to 2 oz/in ²
H	FEP / GPTFE; 2 oz/in ² to 4 oz/in ²
I	FEP / GPTFE; 4 oz/in ² to 8 oz/in ²
J	FEP / GPTFE; 8 oz/in ² to 12 oz/in ²
K	FKM (Viton); STD
L	FKM (Viton); STD to 2 oz/in ²
M	FKM (Viton); 2 oz/in ² to 4 oz/in ²
N	FKM (Viton); 4 oz/in ² to 8 oz/in ²
O	FKM (Viton); 8 oz/in ² to 12 oz/in ²
P	High Temp.; STD
Q	High Temp.; STD to 2 oz/in ²
R	High Temp.; 2 oz/in ² to 4 oz/in ²
S	High Temp.; 4 oz/in ² to 8 oz/in ²
T	High Temp.; 8 oz/in ² to 12 oz/in ²

Table E - Certification

Option E	Description
1	Standard
2	ATEX

Table F - Options

Option F	Description
0	None
1	LOX Cleaning