

94131 Pressure Relief Vent (Open or Closed Vent Option)

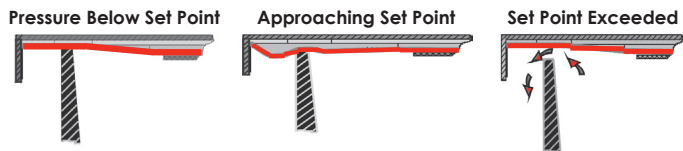
The Shand & Jurs 94131 Pressure Relief Vent is designed to provide pressure relief with high efficiency, maximum flow capacity and minimum leakage. The easily serviceable configuration and light weight construction reduces maintenance and installation costs. A variety of construction materials are available as part of the standard design which are ideally suited for highly corrosive and toxic product applications.

For dependable performance, Shand & Jurs Pressure Relief Vents utilize pressure pallets that are both peripherally and center stem guided. The standard FEP diaphragm is "Air Cushion Seated" for high resistance to adhesion of ice and gum formation. A range of sizes and configurations, such as closed vent hood and flame snuffers are available. Standard pressure setting is 0.5 oz/in².

Expanda-Seal

Shand & Jurs "Expanda-Seal" option is available on all pressure pallet assemblies. This feature significantly reduces leakage. The ballooning effect of the FEP diaphragm effectively seals the valve.

The "Expanda-Seal" feature ensures less than 0.5 SCFH of air at 95% of the set point.



Open Vent Configuration



Closed Vent Configuration

Features

- Reduced need for special materials in corrosive and extreme temperature
- Peripheral and stem guided pressure pallet assures smooth lift and closure
- Positive seal and minimal blow down
- Capacity certified to API standards
- Reduced maintenance and installation costs
- "All Weather" Teflon coating available
- Insulation Jackets available
- Steam Jackets available

Specifications

Sizes:

2", 3", 4", 6", 8", 10" & 12"

*Maximum Setting:

24 oz/in²

Standard Setting:

0.5 oz/in² (0.86 in. W.C.)

Expanda-Seal Pressure Setting:

1.5 oz/in² Minimum

(Consult Factory for lower settings)

* Varied by valve size and weight material. Please consult factory for particular valve size and weight material.

Temperature Range:

Process Temperature ranges for body material:

-65°F to 250°F (Aluminum)

-65°F to 350°F (316 Stainless Steel)

-20°F to 350°F (Carbon Steel)

Type of Flange Connection:

Raised face (except Aluminum) or flat face flange available; compatible with ANSI 125/150 lb., EN1092-1 and JIS 10K flanges available.

Materials of Construction

Body:

Cast Aluminum, Cast Steel, or 316 Stainless Steel

Closed Vent Cover:

Aluminum, Steel or Stainless Steel

Pallet:

Aluminum or 316 Stainless Steel

Seat:

Aluminum or 316 Stainless Steel (Field Replaceable)

Stem Guide:

Galvanized Steel, Galvanized Iron or Stainless Steel

Screen:

Galvanized Steel or Stainless Steel

Diaphragm:

FEP (Fluorinated Ethylene Propylene), FKM (Fluoroelastomer), NBR (Nitrile-Butadiene), PFA (Fluoroplastic Film)

Back-up Disc:

Fiber, Glass Filled Teflon (GPTFE)

Closed Vent Cover Gasket:

Fiber, Glass Filled Teflon (GPTFE), FKM, NBR

* Table D Option 5 for same size inlet and outlet connections has been Obsolete and Replaced by Table D Option 6. Option 5 and 6 dimensions do not match. Consult factory if replacement valve is required.

Standard Materials of Construction

Service	Body	Open Vent Hood		Seat		Pallets	Stem Guide Tube	Screen	Side Guides
		2, 3, 4, 6 & 8	10 & 12	2, 3, 4	6, 8, 10 & 12				
Norm. Alum.	Cast Alum.	18-8 SS	Alum.	Alum.	Alum.	Alum.	316 SS	Galv. Steel	316 SS
Cyro Low Temp.	Cast Alum.	Alum.	Alum.	Alum.	Alum.	Alum.	316SS	304 SS	316 SS
Severe Steel	Cast Steel	18-8 SS	Alum.	316 SS	316 SS	316 SS	316 SS	304 SS	316 SS
Severe 316SS	Cast 316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS

Service	Pallet Stem Pressure Side	Diaphragm	Closed Vent Cover		Cover Gaskets	Hardware
			2, 3, 4	6, 8, 10 & 12		
Norm. Alum.	316 SS	FEP	Aluminum	Aluminum	NBR	Stainless Steel
Cyro Low Temp.	316 SS	FEP	Aluminum	Aluminum	NBR	316 SS
Severe Steel	316 SS	FEP	Steel	Steel	NBR	Stainless Steel
Severe 316 SS	316 SS	FEP	316 SS	316 SS	NBR	316 SS

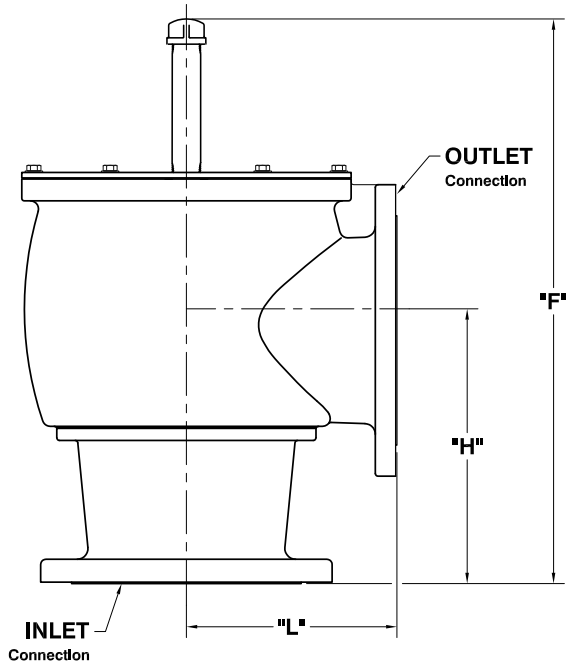
CI = Cast Iron DI = Ductile Iron

94131

Pressure Relief Vent



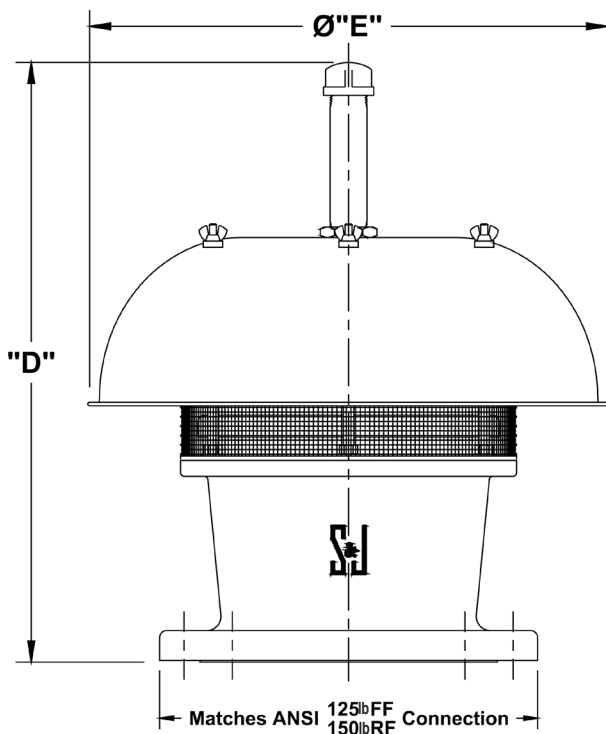
94131 Closed Vent



Vent Size	"F"	"H"	"L"
2" x 2"	11 1/4	5 1/32	4 1/4
2" x 3"	11 1/8	5 1/32	4 1/4
3" x 3"	13 1/4	5 9/16	5 1/4
3" x 4"	13 3/4	5 31/32	5 1/4
4" x 4"	20 3/8	7	6 1/2
4" x 6"	15 3/4	7 1/32	5 15/16
6" x 6"	21 1/4	9 3/8	8 3/8
6" x 8"	21 1/4	10 11/32	8 1/4
8" x 8"	25 1/2	11 11/16	9 3/4
8" x 10"	26 3/16	12 23/32	9 3/4
10" x 10"	30	13 7/8	11 19/32
10" x 12"	30 1/4	14 29/32	11 19/32
12" x 12"	33 7/8	16 1/4	12 13/16
12" x 14"	33 7/8	16 7/8	12 13/16

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

94131 Open Vent



Vent Size	"D"	Diameter "E"
2"	11 1/8	12 7/8
3"	13 3/4	13 9/16
4"	15 3/4	15 15/16
6"	18 3/4	18 5/8
8"	21 1/4	18 5/8
10"	28 1/8	25 9/16
12"	32 1/4	29 7/8

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



94131 Ordering Guide

Model Number Selection

The model number will consist of a base number **94131** followed by 8 digit numbers. These digits will represent 6 option tables.

94131 - AB - CD - EF - GH

Ordering Information

Specify:

1. Model 94131 Pressure Relief Vent
2. Size and Body Material
3. Type of Venting
 - A) Open Vent
 - B) Closed Vent
4. Pressure Setting Required
5. Cleaning for Oxygen Service or Other Special Cleaning
6. Optional Materials of Construction, If Required
7. To Specify CE for Ordinary EU Locations use 94131C AB CD EF GH
8. To Specify ATEX Certification for II 1 G Ex h II B T1...T6 Ga EU Locations use 94131A AB CD EF GH.
ATEX Certification Includes CE Mark.



Table A - Size (Body & Flange)

Option A	Size
2	2" x 3"
3	3" x 4"
4	4" x 6"
6	6" x 8"
8	8" x 10"
0	10" x 12"
1	12" x 14"

Table B - Body (Casting) Material & Flange Type

Option C	Body Material	Flange Type
A	Aluminum R-ST	ANSI-FF 150#
B	Cast Steel R-ST	ANSI-FF 150#
C	Cast Steel R-ST	ANSI-RF 150#
D	316SS R-ST	ANSI-FF 150#
E	316SS R-ST	ANSI-RF 150#
F	Alumunum R-ST	EN1092-1 PN16 FF
G	Cast Steel R-ST	EN1092-1 PN16 FF
H	Cast Steel R-ST	EN1092-1 PN16 RF
I	316SS R-ST	EN1092-1 PN16 FF
J	316SS R-ST	EN1092-1 PN16 RF

Table C - Size (Setting, Pallet, Weight)

Option C	Size
2	2"
3	3"
4	4"
6	6"
8	8"
0	10"
1	12"

Table D - Setting, Pallet Type, & Wgt

Option D	Description
A	LOW / Standard / Lead
B	MED / Standard / Lead
C	HIGH / Standard / Lead
D	LOW / Standard / 316
E	MED / Standard / 316
F	HIGH / Standard / 316
G	LOW / Expanda / Lead
H	MED / Expanda / Lead
I	HIGH / Expanda / Lead
J	LOW / Expanda / 316
K	MED / Expanda / 316
L	HIGH / Expanda / 316

Table E - Certification

Option E	Description
1	Standard
2	ATEX

Table F - Options

Option F	Description
0	None
1	Limit Switch
3	Steam Jacket
4	LOX Cleaning
5	Incremental Weights

Temperature Limits

Diaphragm Material	Temperature Range
FEP	-65°F to 400°F
FKM	-15°F to 400°F
NBR	-40°F to 250°F
PFA	-65°F to 500°F