

94240

Free Vent

The Shand & Jurs® Model 94240 provides continuous atmospheric venting for storage tanks designed to operate at ambient pressure without pressure or vacuum regulation. In tank designs where pressure control is handled by separate conservation devices, specifying engineers may require unrestricted tank-to-atmosphere communication; the 94240 fulfills that role through an open, screened vent assembly.

Unlike conservation vents, the 94240 does not incorporate pallets, springs, or sealing components. A screened weather hood permits constant airflow while limiting ingress of debris, precipitation, and insects. The absence of moving parts eliminates blowdown behavior, setpoint drift, or mechanical wear associated with regulated vent designs. Standard aluminum construction supports general outdoor and industrial service, with cast iron available for heavier-duty requirements.

Available in 2", 3", 4", 6", 8", 10" nominal sizes with ANSI Class 125/150 flanged connections, the 94240 integrates directly into atmospheric tank nozzles where continuous open venting is specified by design.



Key Features

Open Atmospheric Design

Maintains unrestricted airflow without pressure or vacuum regulation.

Screened Weather Hood

Limits ingress of debris, insects, and precipitation.

No Moving Parts

Eliminates mechanical wear associated with pallet assemblies.

2" through 10" Nominal Sizes

Accommodates standard atmospheric tank nozzle dimensions.

ANSI Class 150 Flange Interface

Integrates into refinery and chemical facility piping standards.

Corrosion-Resistant Construction Options

Supports outdoor and industrial environments.

Benefits



CONTINUOUS TANK VENTING

Prevents unintended pressure accumulation in open systems.



REDUCED MAINTENANCE EXPOSURE

Absence of moving components minimizes inspection frequency.



DEBRIS EXCLUSION

Screened hood protects tank interior from contamination.



SIMPLIFIED INSTALLATION

Standard flange interface reduces field modification.



CLEAR APPLICATION BOUNDARY

Distinguishes from conservation vent use in regulated pressure systems.



SPECIFICATION CLARITY

Straightforward design simplifies engineering review and approval.

Available Options



Flame Snuffer

Cable-operated disc provides fire suppression capability. Specify tank height when ordering.



Stainless Steel Screen

Improved corrosion resistance over standard galvanized steel.



Cast Iron Body

Heavier-duty alternative to standard aluminum construction.



Cast Iron or Cast Brass Disc

Alternate disc materials for specific service requirements.



Cast Aluminum Lever

Lighter alternative to standard malleable iron.



Optional Threaded Connection

Available where flanged installation is not required.

Key Performance Data

Parameter	Value
Pressure Regulation	None (open atmospheric)
Nominal Sizes	2", 3", 4", 6", 8", 10"
Flanged Connections	NSI 125/150 Flat Face
Materials	Body: Cast Aluminum. Cast Iron. Screen: Galvanized Steel (Stainless Steel available). Lever: Malleable Iron (Cast Aluminum available). Disc: Cast Aluminum (Cast Iron or Cast Brass available). Snuffer Cable: Stainless Steel (optional — specify tank height when ordering).

Dimensions

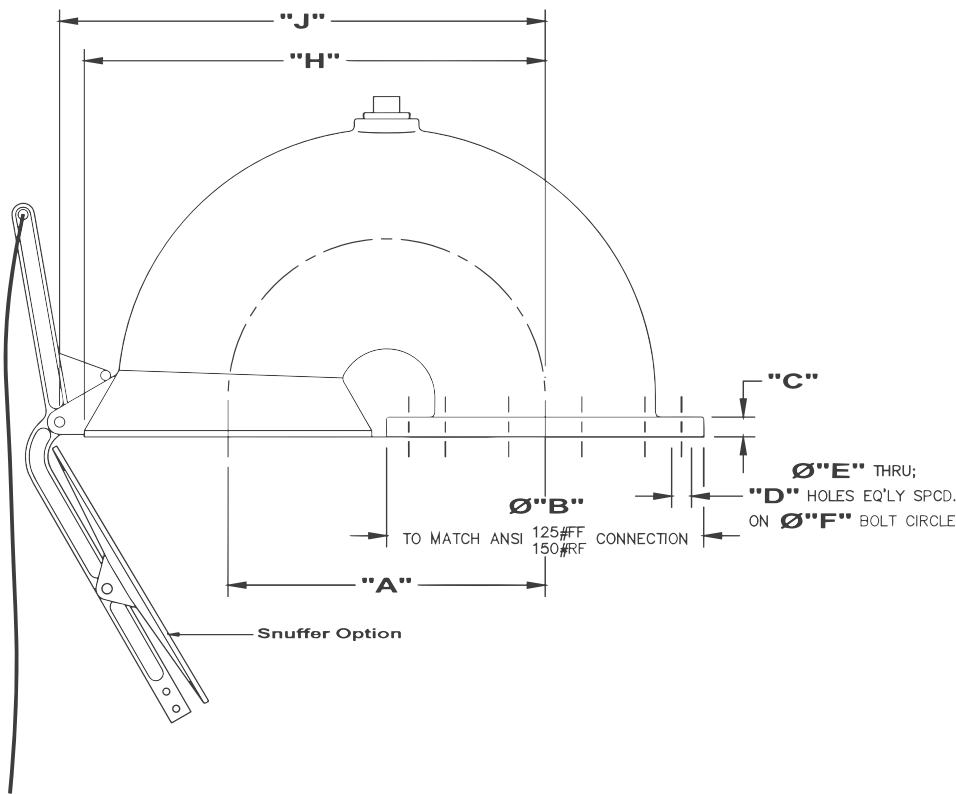


Table of Dimensions										
Size	Dimensions in Inches								Weight / lbs.	
	A	B	C	D	E	F	H	J	H	J
2"	5 1/2	6	1/2	4	3/4	4 3/4	7 1/2	8 1/8	15	8
3"	7 1/2	7 1/2	5/8	4	3/4	6	9 15/16	10 3/4	19	10
4"	9	9	5/8	8	3/4	7 1/2	12 1/8	13	25	12
6"	11	11	3/4	8	7/8	9 1/2	15 9/16	16 5/8	55	21
8"	13 5/8	13 1/2	3/4	8	7/8	11 3/4	19 3/4	20 5/8	75	28
10"	16	16	1	12	1	14 1/4	23 1/4	24 1/2	96	37

Model Number Selection

The model number will consist of a base number 94240 followed by 4 digit numbers. These digits will represent 2 option tables.

94240 - AB - CD

Ordering Information

Specify:

- 1. Model 94240 Free Vent
- 2. Size Vent Required
- 3. Body Material
- 4. Screen Type

Table AB - Size & Material - 125# Flat Face Flange

Without Snuffer			With Snuffer	
Size	Option AB	Weight* (Lbs.)	Option AB	Material
2"	01	8	21	Aluminum
3"	12	10	22	Aluminum
4"	03	12	23	Aluminum
6"	04	21	24	Aluminum
8"	05	28	25	Aluminum
10"	06	37	26	Aluminum
2"	07	15	37	Cast Iron
3"	08	19	38	Cast Iron
4"	09	25	39	Cast Iron
6"	10	55	30	Cast Iron
8"	11	75	31	Cast Iron
10"	12	96	32	Cast Iron

* Shipping Weight (without Flame Snuffer)
** Specify cable length (if Snuffer ordered).

Table CD - Screen Type

Option CD	Screen Type
00	Galvanized Steel
01	Stainless Steel

Summary

The Shand & Jurs® 94240 Free Vent provides continuous atmospheric communication for non-pressurized storage systems. With no moving components and screened weather protection, it supports open venting applications where pressure regulation is handled by separate devices. The 94240 offers straightforward, specification-ready atmospheric venting for compliant tank installations.

info@cognesense.com

Tel: (708) 236-6000

5911 Butterfield Road Hillside, Illinois 60162 USA

This document is for information purposes only. All designs subject to change. Certified dimensions, specifications, and performance data available upon request