

94308

Miniature End-of-Line Flame Arrester

The Shand & Jurs® Model 94308 prevents external ignition from propagating into small atmospheric containers and low-volume vapor spaces at open vent discharge points. Installed directly at the end of a vent connection, it establishes the flame-arresting boundary at the atmosphere interface rather than within the container.

Small storage vessels operate near ambient pressure during normal breathing but remain exposed to surrounding ignition sources. The heavy-gauge stacked-plate element absorbs heat from the flame front and quenches combustion before it can enter the vapor space, while allowing bidirectional vapor movement.

The compact body supports installation on short vent connections, drum vents, and sampling vessels where larger arresters cannot be applied. FM approval for NEC Group D gases confirms suitability for defined ignition-control locations requiring minimal pressure drop.

Available in 1 in. and 2 in. sizes with threaded NPT or ANSI flange adapters. The Model 94308 provides defined ignition protection without altering normal venting behavior.



Key Features

Heavy-gauge stacked plate element Quenches flame fronts while allowing bidirectional vapor movement.	Compact housing Allows installation at vent openings where larger arresters cannot be installed.	Bidirectional flow path Maintains normal breathing within the container.
FM-approved construction Certified ignition control for NEC Group D gas environments.	Lightweight body options Supports installation on drums and light-gauge vessels.	Threaded or flanged connections Adapts to small piping and container vent connections.



Benefits



STOPS FLAME AT THE VENT OPENING

Prevents ignition entry into the container vapor space.



MAINTAINS UNRESTRICTED BREATHING

Avoids pressure accumulation in small atmospheric vessels.



DEFINED IGNITION BOUNDARY

Protects without requiring larger inline arresters.



DURABLE PLATE ELEMENT

Maintains flame gap integrity through inspection cycles.



CERTIFIED PROTECTION METHOD

Supports code acceptance for solvent storage locations.



DIRECT ATMOSPHERE INTERFACE PROTECTION

Establishes defensible ignition control at container vents.

Available Options



Stainless steel construction

Corrosion resistance for aggressive vapors.



Aluminum construction

Reduced weight for drum or light-gauge mounting.



Threaded NPT connection

Direct installation on small vent piping.



ANSI 150 FF flange adapter

Integration with small flanged nozzles.



ANSI 150 RF flange adapter

Sealing compatibility with raised-face connections.



2-inch size selection

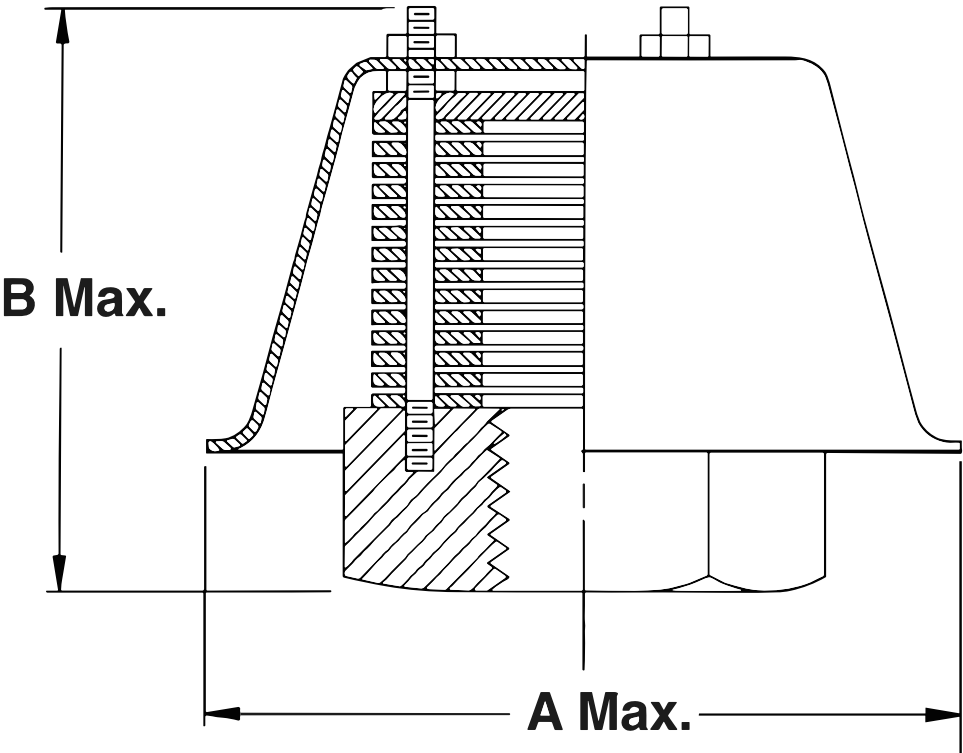
Increased vent capacity for larger small tanks.

Key Performance Data

Parameter	Value
Size Range	1 in., 2 in.
Approval	FM Approved
Gas Group	NEC Group D
Mounting	NPT standard, ANSI FF/RF optional
Body	Aluminum or Stainless Steel
Flame Element	Aluminum or Stainless Steel

Outline Dimensions

Dimensions in Inches		
Pipe Size	A	B
1"	7 1/2	4 1/8
2"	13 5/8	5 1/2



Model Number Selection

The model number will consist of a base number 94308 followed by 4 digit numbers. These digits will represent 2 option tables.

94308 - AB - CD

Ordering Information

Specify:

- 1. Model 94308 Miniature Flame Arrester
- 2. Size and Body Material
- 3. Connection

Table AB - Size and Body

Option AB	Size	Construction Material
01	1"	Aluminum
02	1"	316 Stainless Steel
04	2"	316 Stainless Steel

Table CD - Connection

Option CD	Connection
00	Threaded, NPT
01	FF, 150 lb. ANSI
02	RF, 150 lb. ANSI

Summary

The Model 94308 establishes the flame-arresting boundary directly at the vent opening of small atmospheric containers. Stopping ignition at the outlet while maintaining natural breathing flow, it protects drums and small tanks without altering normal operation. The compact construction and serviceable element support consistent ignition control in solvent and laboratory storage service.

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