

Flame Arrester

Lightweight, End-of-line, Deflagration Flame Arrester



Model 314

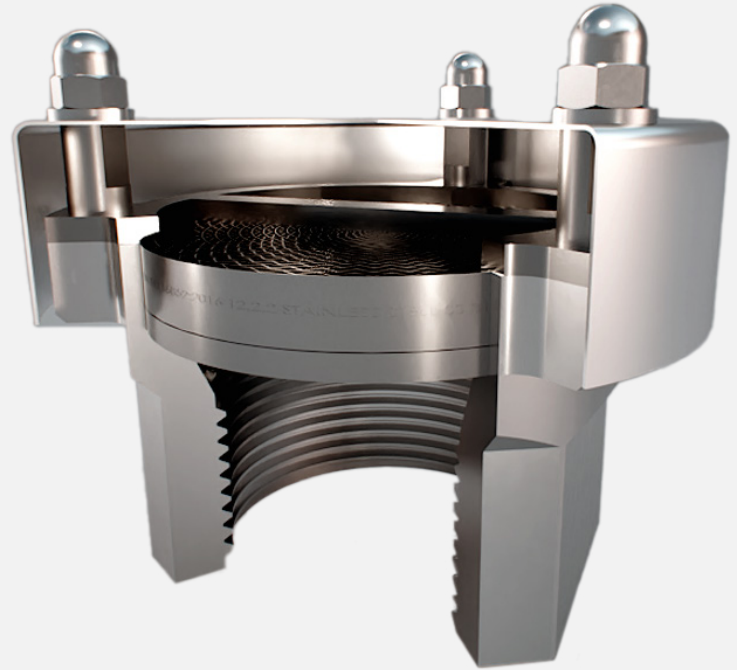
Product Description

The Lightweight Flame Arrester Series offers a lightweight and simple solution designed for use at the end of pipelines or in atmospheric vents of vessels containing flammable gases and vapors. This series can be used in a wide range of applications, combining cost effectiveness and functionality.

Due to its minimal weight, it is easy to transport and speeds up maintenance processes. Manufactured from different materials such as steel, stainless steel and other special alloys, it adapts to various industrial needs. Corrosion resistant construction ensures long lasting performance in harsh environments.

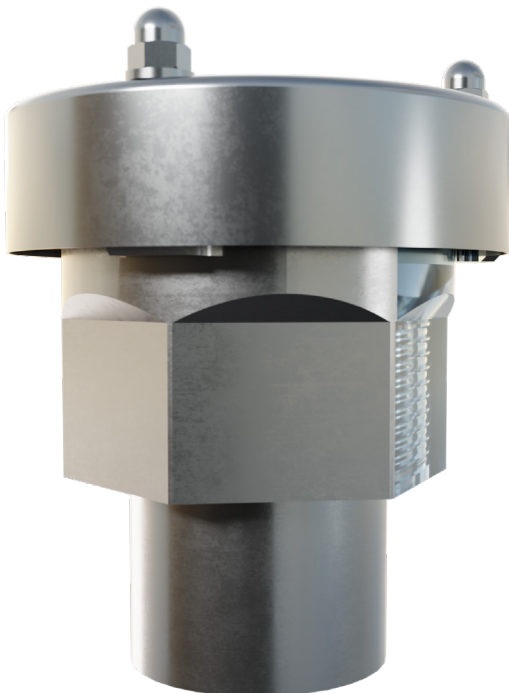
The Lightweight Flame Arrester Series is equipped with special elements with small openings that allow the free passage of gases and vapors. In the unlikely event of an ignition, it allows the products of combustion to be cooled on the Lightweight Series element surface.

Lightweight Flame Arrester Series elements are made of materials resistant to high temperatures and chemicals



StorageTech provides the high quality and reliable solutions for your needs with 40 years of experience.

Your investments will be much safer with Storagetech™ Flame Arrester solutions, which are completely produced in accordance with international norms.



Standard Sizes	1/2" to 2"
Body / Flanges	1- Stainless steel AISI 304 -L or 316-L 2- Customer Specification
Flame Element	1- Stainless steel AISI 304 -L or 316-L
Weather Hood	Stainless steel
Paint Finish	1- Powder Coating, Colour RAL 9006 2- Epoxy Paint, Colour RAL 9006 3- Customer Specification

Flame Arrester

Lightweight, End-of-line, Deflagration Flame
Arrestor



Model 314

Features & Benefits

The Lightweight flame arrester is specifically designed for applications where simple, lightweight and economical solutions are required. This model is lighter and more compact than other flame arrester types, providing ease of transportation and installation.

The light duty flame arrester can be safely used in areas with lower risk of explosion and fire. Threaded connection structure saves labor and time by reducing installation time. It is simpler and faster compared to standard flanged connection systems.

Flame arresters can be installed in various systems such as tanks, ventilation systems and industrial process equipment. Toxic smoke and gases generated by fire or explosions can cause great damage to the environment. Flame arresters prevent such incidents, prevent the release of toxic gases into the atmosphere and provide an environmentally friendly operation.



Flame Arrester

Lightweight, End-of-line, Deflagration Flame Arrestor



Model 314

Product Description

The area of each passage determines level of protection that the element provides. StorageTech TM Model 314 In line Deflagration Flame Arrester has a Maximum Experimental Safe Gap as per standard. Weather hood and screen protect the vent and restricts dust, wind, rain, or insects from entering and degrading the efficacy of the product.

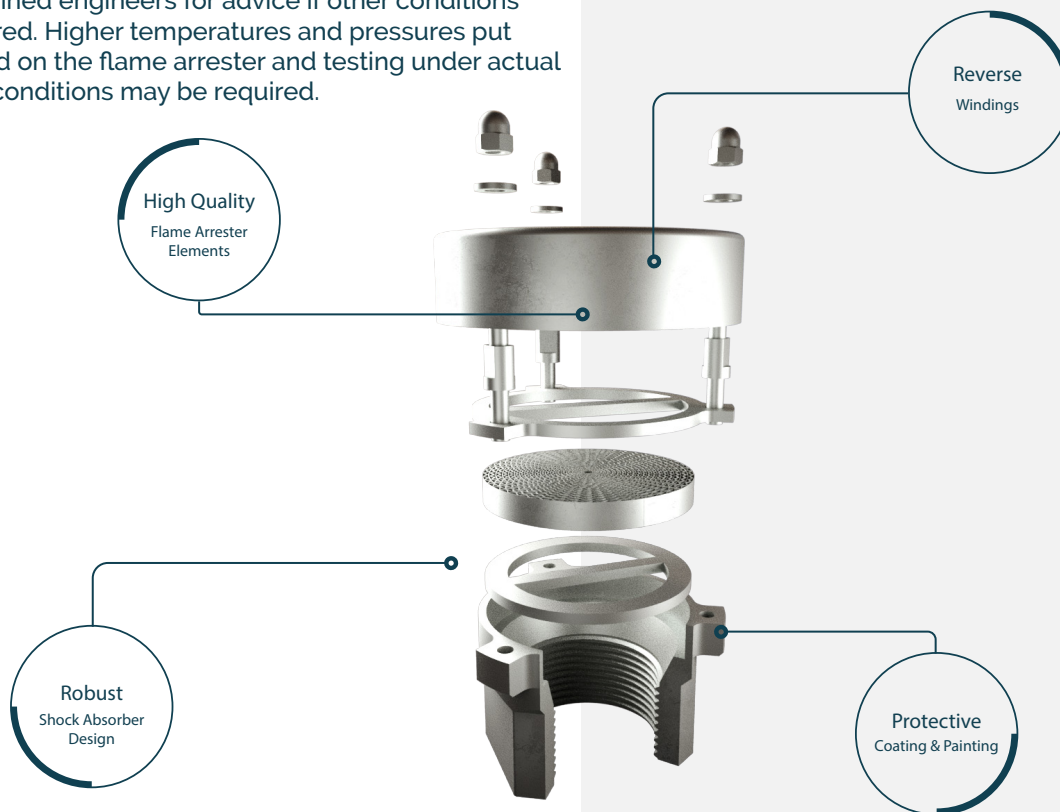
Using advanced algorithms and CFD analysis, the effects of product designs on airflow, pressure changes and flame dynamics are optimized.

Flame arresters are usually designed for use at ambient temperature and pressure. Please consult StorageTech experienced and trained engineers for advice if other conditions are encountered. Higher temperatures and pressures put increased load on the flame arrester and testing under actual or simulated conditions may be required.

Design & Manufacturing Specifications



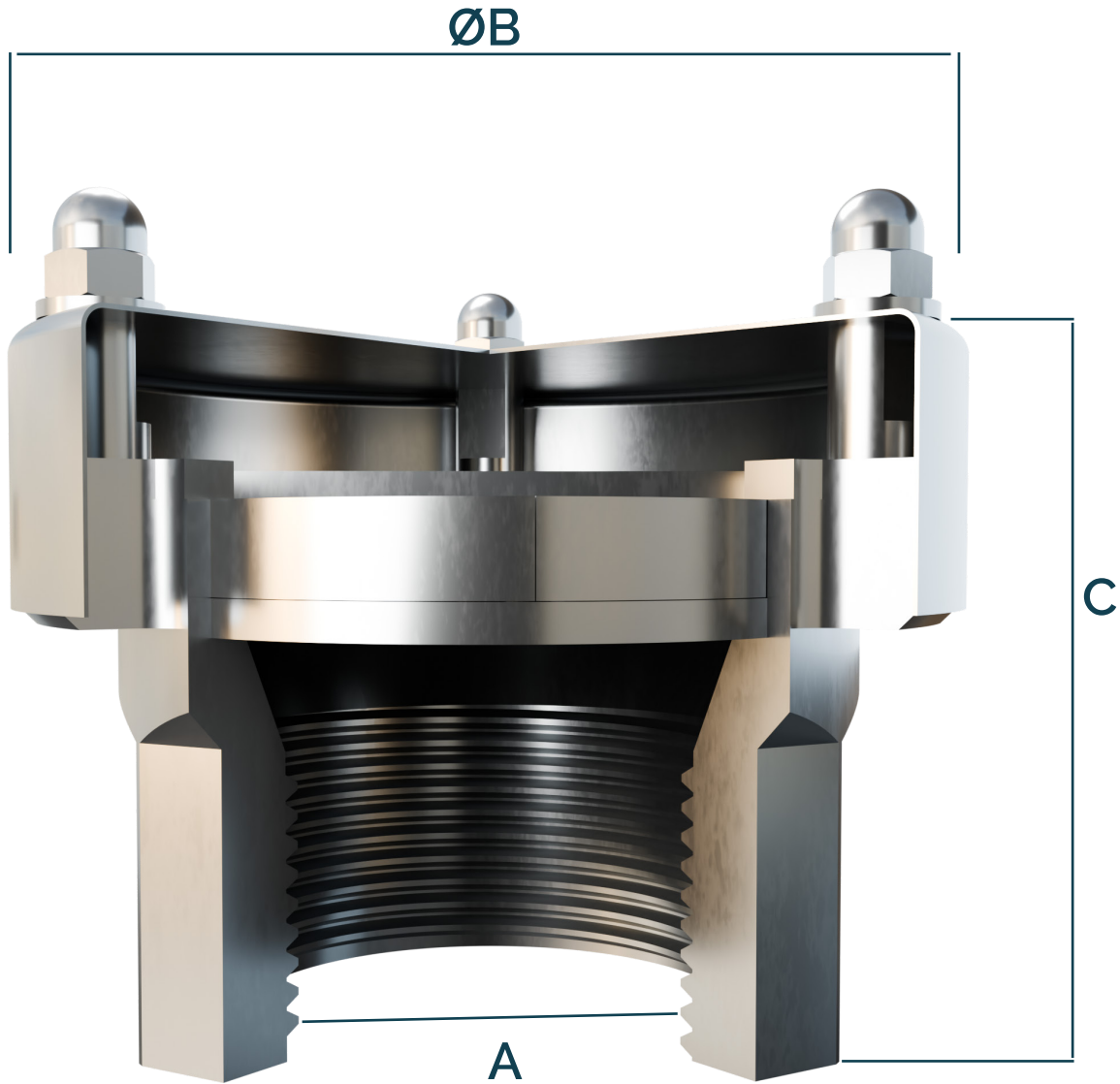
The size of the vent will be calculated in accordance with API Standard 2000 - Venting Atmospheric and Low Pressure Storage Tanks or other international standards.



Key Features

- StorageTech™ PW Model 314 internal materials are AISI 304 or 316 stainless steel.
- Easy to clean internal materials. Easy to install.
- You do not need a special tool or experience to install the StorageTech™ flame arrester Model 314.
- Comes with the paint color you choose.

Technical Drawing



Weight & Dimensions

d	Size	Dimensions				Weight
		A(male)	A(Female)	$\varnothing B$	C	
015	1/2"	1/2"	1/2"	40mm	60mm	0,2kg
020	3/4"	3/4"	3/4"	65mm	70mm	0,35kg
025	1"	1"	1"	65mm	70mm	0,35kg
050	2"	2"	2"	120mm	80mm	0,6kg

Product Recommendations



Biogas Safety Selector Valve (SSV)

Model: 250

The Storagetech Biogas Safety Selector Valve (SSV) is an advanced, cost-effective alternative to traditional three-way plug valves, designed for seamless operation in biogas systems. It enables smooth switching between Pressure and Vacuum Relief Valves (PVRs) with Flame Arresters, ensuring uninterrupted operation during maintenance.



Pressure Vacuum Relief Valve With Flame Arrester

End-Of-Line,
Weight Loaded,
Combination,
Atmospheric Deflagration
Proof

Model: 300

Storagetech™'s Model 300 Pressure Vacuum Relief Valve with Flame Arrester provides protection to bulk storage tanks and vessels from over and under pressurization.

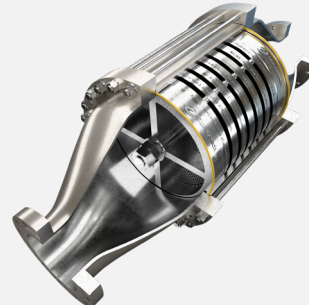


Flame Arrester

Vertical,
In-Line,
Deflagration

Model: 300

Storagetech™'s Model 300 Vertical In-line Deflagration Flame Arrester (also called flame arrester or fire arrester) is intended for pipeline installation close to the source of any potential ignition source by minimising flame speed and the development of an explosive pressure.



Flame Arrester

Horizontal,
In-Line,
Detonation

Model: 321

Storagetech™'s Model 321 In-line Detonation Flame Arrester (also called flame arrester or fire arrester) is designed for installation in gas pipelines. Detonation occurs when a flame travelling through the pipeline reaches supersonic velocities, usually as a result of the pipeline configuration or pipeline surface roughness. Changes in gas density and pressure causes the flame velocity to metamorphose from subsonic to supersonic.

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data sheet series

Flame Arrester Light
weight, End of line,
Deflagration

Revision No: 01

storagetech.de



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