

Vent Cap

(Capped-type):

Engineered for Performance and Durability



Introduction

StorageTech's Vent Cap is installed in low-pressure atmospheric storage tanks to meet free breathing requirements to prevent build-up of internal pressure. Threaded construction allows the Vent Cap to be installed directly on the tank, thus eliminating the need for any flange connection.

The main components of the vent cap are a housing, an cover and screen. The Vent Cap is equipped with a fixed air cap made of metal. Cover and bird screen supplied as standard. The cover protects ventilation and prevents the ingress of influences, dust, wind, rain or insects that spoil the product. No routine maintenance is required to ensure continuous and effective operation. Increases system safety by quickly relieving excess pressure.



Key Features and Benefits

Customization:

Material and design modifications can be made according to specific pressure, temperature and ambient conditions.

Lower Cost:

Although it has high quality standards, it offers an economical solution. High-quality materials increase the lifetime of the device, reducing the total cost of ownership.

Customizable Design:

Range of sizes and materials to suit any application. Designs suitable for special engineering requirements are offered.

Ease of Maintenance:

The robust construction and choice of durable materials make it virtually maintenance-free. Fast installation and low maintenance minimize both start-up costs and operating expenses.

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Technical Specifications

Parameter Value/Range Capacity
1/2" to 12" (Further sizes are applicable upon request.)

Body Material
SS304/SS316L, Aluminum and Customer Specification (other materials and coatings available on request).

Paint Finish
1. Customer Specification
2. Powder Coating, Colour RAL 9006
3. Epoxy Paint, Colour RAL 9006

Advanced Features

The Light Weight Vent Cap is specially designed for applications where simple, lightweight and economical solutions are required. This model is lighter and more compact than other Vent Cap types, providing ease of transportation and installation.

Threaded connection structure saves labour and time by reducing installation time. It is simpler and faster than standard flanged connection systems. Vent Cap can be installed in various systems such as tanks, ventilation systems and industrial process equipment.

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.



Applications

Oil and Gas Sector: Pressure equalization in storage tanks. Air venting and pressure protection systems in gas processing plants.

Chemical and Petrochemical Industry: Pressure equalization and evacuation in chemical tanks. Safe evacuation of corrosive gases and vapors.

Energy and Power Generation Plants: Pressure control in steam lines. Bleed air and safety in gas turbines. Pressure balancing in renewable energy projects storage (biogas, hydrogen storage).

Water and Waste Water Treatment Plants: Gas evacuation and ventilation in storage tanks.

Food and Pharmaceutical Industry: Gas stabilization in mix tanks.

Marine and Offshore Industry: Tank ventilation and pressure protection on offshore platforms.

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Quality Assurance

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. StorageTech's Vent Cap Breathing requirements are fulfilled according to API 2000 7th Edition and other global standards.

Custom Engineering by StorageTech

At StorageTech, we specialize in tailoring Vent Cap to unique operational needs. From material selection to Vent Cap configuration, our solutions address the most complex industrial challenges.

For more information



Product Recommendations

Storagetech™ manufactures storage tank equipment, such as flame arresters, breather valves, gauge hatches, floating roofs, and floating suction pipe.



Flame Arrestor

End-Of-Line,
With Automatic
Opening Hood,
Deflagration

Model: 312

Storagetech™ Flame Arrestors (End-of-line, with Automatic Opening Hood) are passive devices that prevent the propagation of a flame or fire from entering into an opening in a pipeline or vessel discharging flammable vapor. As different from model 310, Model 312 end of line flame arrestor's weather hood is designed to react fire instantly tanks to it's fusible link, which is melted during the fire and let the weather hood release the gas/fire to the atmosphere.



Pressure Vacuum Relief Valve With Flame Arrestor

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

Model: 330

Storagetech™s Model 330 Pressure Vacuum Relief Valve with Flame Arrestor provides protection to bulk storage tanks and vessels from over and under pressurization.



Flame Arrestor

Vertical,
In-Line,
Deflagration

Model: 300

Storagetech™s Model 300 Vertical In-line Deflagration Flame Arrestor (also called flame arrestor or fire arrestor) 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 Arrestor

Horizontal,
In-Line,
Detonation

Model: 321

Storagetech™s Model 321 In-line Detonation Flame Arrestor (also called flame arrestor or fire arrestor) 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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