

GORE® Protective Vents for Lighting Enclosures

Lighting enclosure vents from Gore rapidly equalize pressures while blocking water and contaminants, for improved product performance and service life.

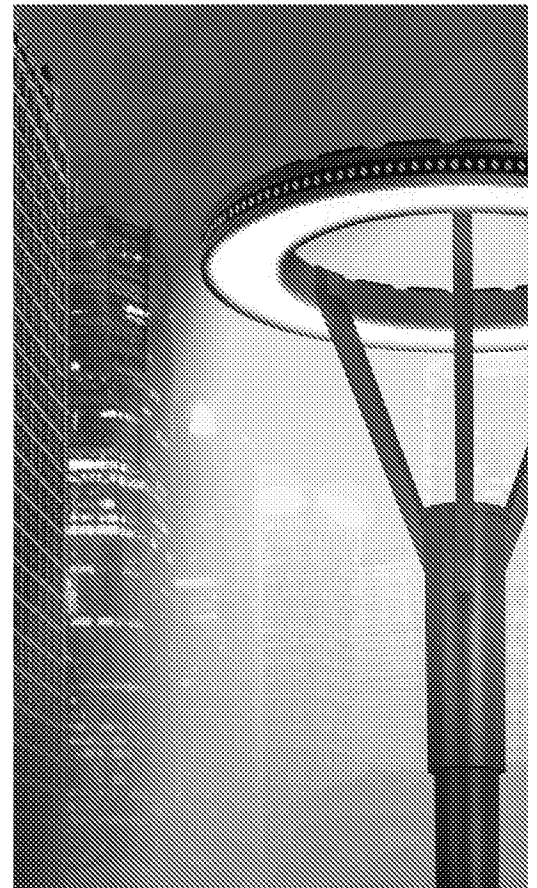
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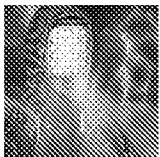
Request a quote, a technical consultation, or a product sample.



NEW GORE® POLYVENT XS

Realize Streamlined Designs With a 30% Smaller

Resource Library



PROTECTIVE VENTS FOR OUTDOOR ELECTRONICS

GORE® Protective Vents - Lighting Enclosures

ALL RESOURCES FOR GORE® PROTECTIVE VENTS FOR LIGHTING ENCLOSURES

Technical Information (79)

Data Sheets (29)

White Papers (45)

Installation Guides (29)

Brochures, 4.4 MB

Bright, reliable lighting can dramatically enhance the enjoyment – and safety – of public and commercial spaces and transitways. People feel safer and more secure when the places they park and walk have bright, working luminaires. But over time, environmental factors can degrade the luminaire’s original level of Ingress Protection (IP). This will allow damaging moisture and contaminants to enter the enclosure.

English (U.S.)

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Overview

Why Vent?

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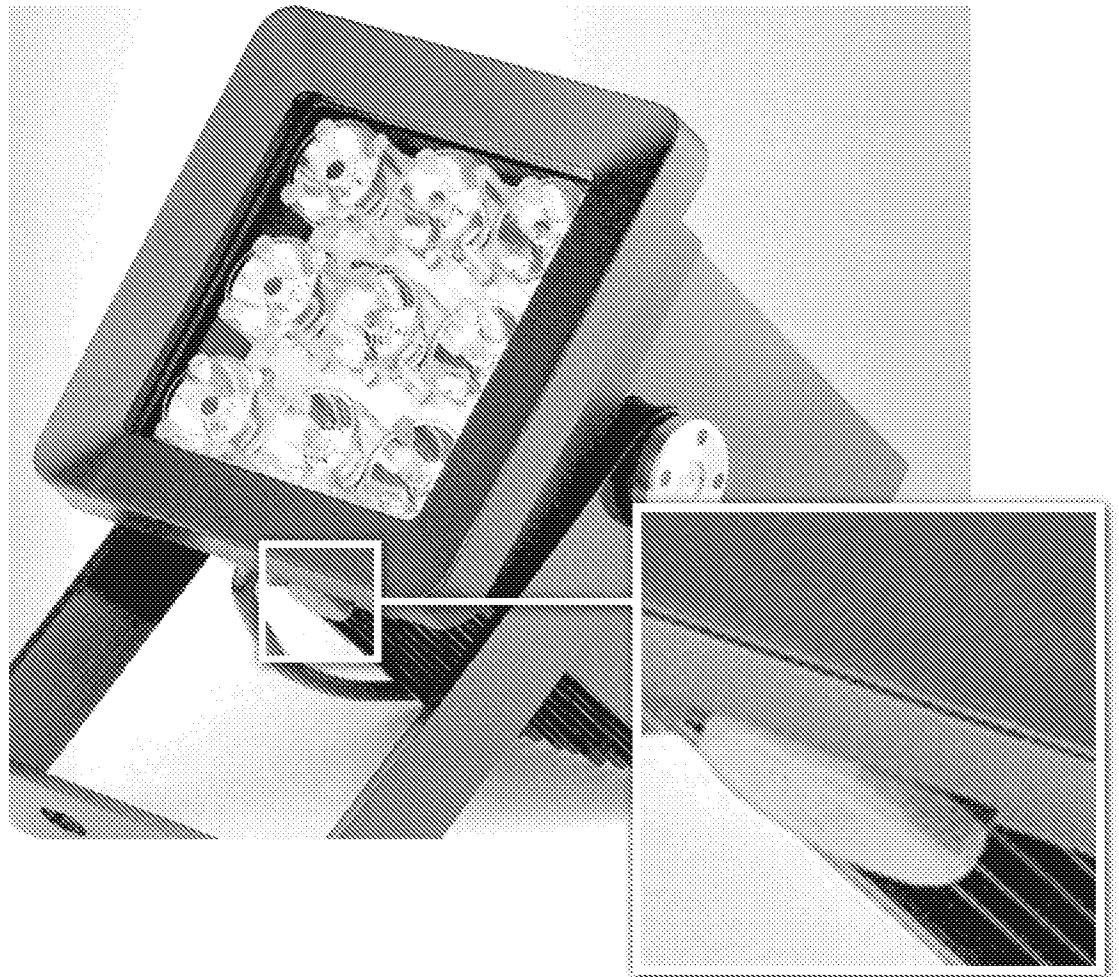


COMPLY WITH CHEMICAL REGULATIONS

Learn more

The use of PFOA has been further restricted. Thanks to our expertise and infrastructure, we can help you meet the regulatory requirements. Rely on GORE® Vents for compliance, reliable supply and constant high performance and quality.

BETTER VENTING ADDRESSES LIGHTING INDUSTRY CHALLENGES



Lighting enclosures are increasingly vulnerable to the demands of evolving technologies: higher-density components create higher internal temperatures and pressures; transparent lenses make condensation more visible and warranty claims more numerous, and LED bulbs demand longer life of the entire system, requiring more robust protection from both contaminants and condensation.

GORE Protective Vents for outdoor lighting enclosures are proven to reduce condensation and contaminants by:

- providing rapid pressure equalization and release, to extend seal life
- minimizing condensation through more effective vapor diffusion
- preventing entry of contaminants like dust, dirt and debris
- high-performance venting eliminates the need for extra-hardened components, saving weight and costs

GORE® Protective Vents can help your enclosure meet IP and NEMA protection standards.

LEARN MORE

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Why Vent?

Electronic enclosures that are installed outdoors are vulnerable to a wide range of environmental hazards that can affect the performance, reliability and life expectancy of the sensitive electronics within.

PROBLEMS FOR OUTDOOR ELECTRONICS:

Failed Seals

Condensation

RELIABLE SOLUTIONS WITH GORE PROTECTIVE VENTS:

EQUALIZE PRESSURES TO PROTECT HOUSING ENCLOSURES AND SEALS

PREVENT CONTAMINATION TO PROTECT ELECTRONICS

REDUCE CONDENSATION TO PROTECT AGAINST CORROSION

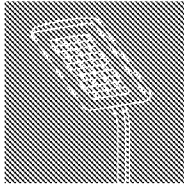
Protect Against Hazardous Gas Buildup

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Applications

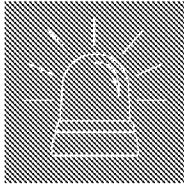
PROVEN EXPERIENCE AND EXPERTISE IN A BROAD VARIETY OF LIGHTING APPLICATIONS

Industrial / Commercial Outdoor Lighting



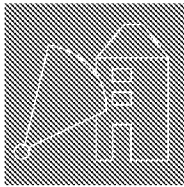
Gore has successfully partnered with large manufacturers of industrial and commercial outdoor lights to solve contamination and condensation challenges, and deliver longer lasting lights.

Emergency Lighting



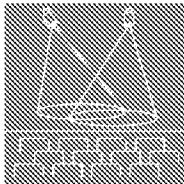
Emergency lighting must be ready to function on a moment's notice. The global engineering team at Gore has a wealth of applications experience to ensure that emergency lighting is fully functional when needed.

Outdoor Decorative Lighting



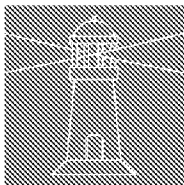
Customers expect decorative lights to maintain their appearance over time. Gore has experience collaborating with outdoor decorative lighting manufacturers to solve condensation issues, which can degrade the appearance of lights.

Entertainment Lighting



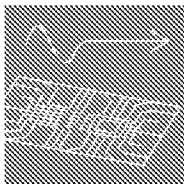
With a proven track record in venting entertainment lighting, Gore has helped manufacturers design systems that can withstand harsh environments and reliably provide maximum lighting performance.

Marine Lighting



Marine lighting must be able to withstand water, dirt and debris as well as handle pressure differentials caused by weather changes. Gore's engineering and materials expertise excels in addressing these challenges.

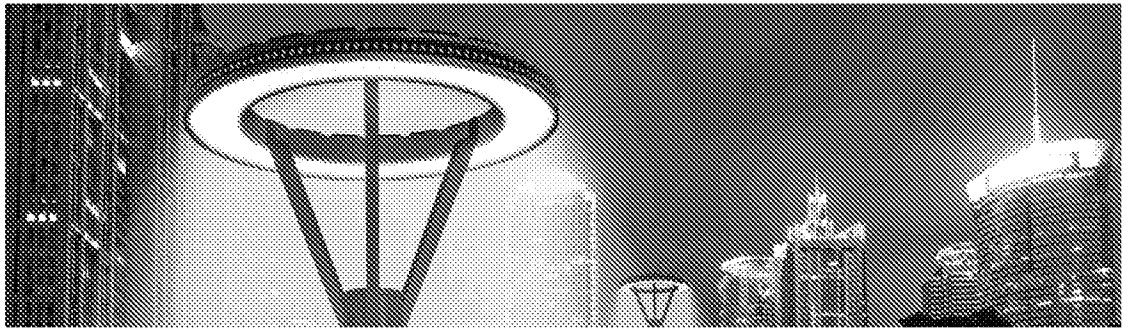
Ballast and Transformers



Gore has global expertise in solving internal pressure challenges within ballast and transformers. Our team of engineers can be considered an extension of your design team.

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Product Comparison



NEW GORE® POLYVENT XS

Realize Streamlined Designs With a 30% Smaller Vent. [Learn more.](#)



ENHANCED: GORE® POLYVENT STAINLESS STEEL

Now top-rated for mechanical impact resistance. Compare **all Screw-In Series options.**

* IK10 rating applies to this GORE® Vent, not the device.

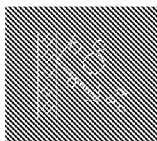
SCREW-IN SERIES

SNAP-IN SERIES

ADHESIVE SERIES

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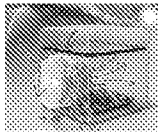
IP / NEMA Rating



Find out which of our vents can help your enclosure deliver the desired protection level according to Ingress Protection (IP) or NEMA Standards.

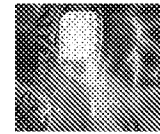
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Resources



GORE® Protective Vents - Overview

Brochures, 709.96 KB



GORE® Protective Vents - Lighting Enclosures

Brochures, 4.4 MB

[View all resources for GORE Protective Vents for Lighting Enclosures](#)

Recent News

NEWS

PolyVent Stainless Steel Brings Premium Performance and Durability to GORE® Protective Vents Screw-In Series

Posted July 13, 2020

PolyVent Stainless Steel brings premium performance and durability to GORE® Protective Vents Screw-In Series. Its premium-quality materials and construction durably withstand the worst hazards: from aggressive industrial chemicals and cleaners to corrosion-inducing salty offshore environments. For added safety, a flammability-resistant GORE™ membrane (UL 94 VTM-0) and O-ring (UL 94 V-0) complement the non-flammable stainless steel body.

PRESS RELEASE

New GORE® PolyVent EX+

Posted November 29, 2017

MUNICH, GERMANY (November 29, 2017) – W. L. Gore & Associates proudly announces the launch of GORE® PolyVent Ex+. Our latest addition to the Protective Vents Screw-In Series is certified according to explosion-proof safety standards, IECEx and ATEX. This will allow you to sell your products globally with fewer certification efforts, saving you labour and testing costs. Plus, the PolyVent Ex+ offers you additional protection performance due to its unique design.

[View all News & Events](#)

FOR INDUSTRIAL USE ONLY

Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

NEWS

New GORE® PolyVent XS is 30% smaller, for more design options and easier integration into small, thin-walled outdoor electronics

Posted September 30, 2018

GORE® Protective Vents introduces PolyVent XS, for designers who want to achieve more sophisticated aesthetics in today's smaller, lighter-weight and thinner-walled enclosures. About 30% smaller in every dimension than Gore's Standard and High-Airflow snap-in vents, PolyVent XS has a smaller diameter and a shorter "head" for less external protrusion – so it's virtually undetectable when installed. Its shorter "legs" mean less protrusion inside the enclosure, for more room and more design flexibility.

NEWS

GORE® PolyVent Ex+: IECEx / ATEX Explosion Protection Certified

Posted November 27, 2017

The newly launched GORE® PolyVent Ex+ adds explosion protection according to IECEx and ATEX to GORE® Protective Vents Screw-In Series. GORE® PolyVent Ex+ offers additional plus (+) features that truly deliver the uncompromising and reliable product performance which is required in tough environments and add to the "long-time safety aspect" for both – operators and equipment.

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