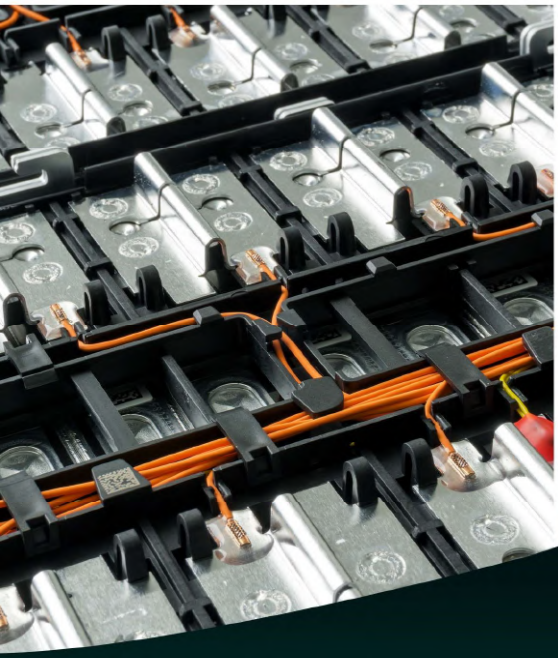
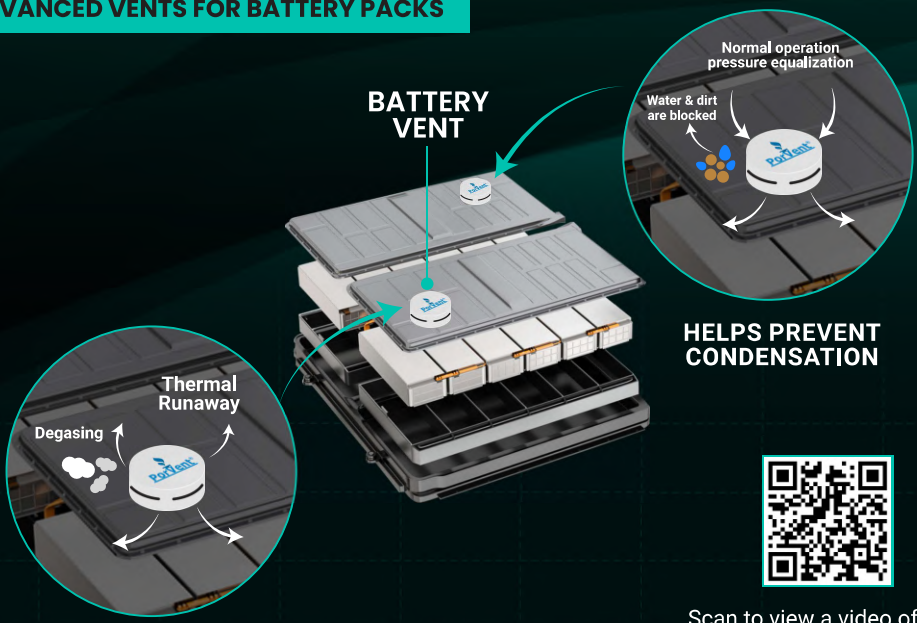
PorVent®



PRESSURE RELEASE VENTS FOR BATTERY PACKS

ADVANCED VENTS FOR BATTERY PACKS



Scan to view a video of how PorVent® Pressure Release Vents function

- Protection against water, dirt, contaminants and harsh automotive fluids.
- Pressure Equalization to help protect the battery housing against excess over or under - pressure during the life of the battery.
- PorVent® Automotive protection vents are developed using sPTFE with high tensile strength. This allows for continuous fatigue free venting throughout the product lifecycle.
- Proper and efficient expulsion of large amounts of gasses in a short timeframe in case of a thermal runway event inside the battery. This can prevent pressure build-up and critical explosions.
- Continued venting allows damp air, which could accumulate inside the battery housing, to be expelled with each warming-up cycle, helping to avoid potential internal condensation issues under certain atmospheric conditions.
- The Automotive Industry Standard-156 (AIS-156) requires Rechargeable Electronic Energy Storage System (REESS) to have pressure release vent provided, to avoid building up of internal pressure and release of gases in case of internal single cell short circuit.
- A burst function is integrated into the vent: if the pressure inside the pack rises over the pre-defined level, the membrane is pushed beyond its holding capacity thus rupturing the membrane and opening a larger area to remove gases from the pack very quickly.

SOLUTIONS SUITED TO YOUR NEEDS

PORVENT® ADHESIVE DISC SERIES

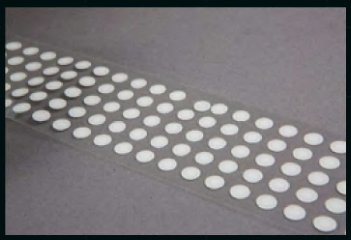
Lowest AIRFLOW Highest

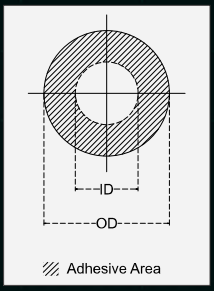
Sr. #	Dimension OD / ID (mm)*	Material Series				
		AD01	AD01L	AD02	AD03	AD04
1	5.0 / 2.0	PV-AD01A	PV-AD01LA	PV-AD02A	PV-AD03A	PV-AD04A
2	7.0 / 3.0	PV-AD01B	PV-AD01LB	PV-AD02B	PV-AD03B	PV-AD04B
3	10.0 / 6.0	PV-AD01C	PV-AD01LC	PV-AD02C	PV-AD03C	PV-AD04C
4	12.7 / 7.1	PV-AD01D PV-AD01DT*	PV-AD01LD	PV-AD02D PV-AD02DH# PV-AD02DTH*#	PV-AD03D	PV-AD04D
5	20.0 / 13.0	PV-AD01E	PV-AD01LE	PV-AD02E	PV-AD03E	PV-AD04E
6	30.0 / 25.0 - Oleo	PVAD01FT				

*Oleophobic
#High Temperature

Highest AIRFLOW Lowest

ADHESIVE DISC





Adhesive disc vents are made of a thin membrane of sPTFE (sintered polytetrafluoroethylene). Adhesive disc vents are easy to apply, durable, and versatile. They come in different sizes, shapes, and constructions to fit various applications and environments. To choose the right vent for your application, you need to consider the size and shape of your enclosure, the location and orientation of the vent, the airflow and pressure requirements, the environmental conditions and exposure, and the installation method and equipment.

PorVent® offers a wide range of adhesive disc vents and can provide you with technical support, samples and customized solutions. If you want to learn more about adhesive disc vents and how they can benefit your application, please contact us.

MOULDED COMPONENTS

PORVENT® MOULDED COMPONENTS

Screw-in Series			Snap Fit Series		
PRODUCT	PRODUCT CODE	SPECIFICATION	PRODUCT	PRODUCT CODE	SPECIFICATION
	PVSV-M10	Material : PA6 M10 x 1.5 6g		PVSF-S	Material: PA6 Wall Thickness: 4mm
	PVSV-M12/N	Material : PA6 M12 x 1.5 6g			
	PVSV-M20/N	Material : PA6 M20 x 1.5 6g			
	PVSV-M12-SS	Material: SS316L M12 x 1.5 6g			

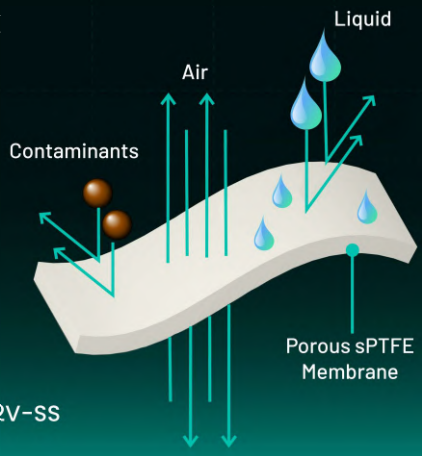
Moulded Venting components are a type of enclosure protection vent that can help your automotive components perform better and last longer. Screw-in vents are easy to install and integrate into your existing equipment, and they are made of durable materials that can withstand harsh environments.

PorVent® offers a wide range of screw-in and snap-fit vents with different sizes, shapes, materials, and media options to suit your specific needs. Choose a venting component that fits your enclosure, material, environment, protection needs and required airflow.

CERTIFIED TO MEET INDUSTRY STANDARDS

Water & Dust ingress : IP65, 66, 67 & 68#, IP6K9K
Flammability : UL 94 V-0, 5VA
Outdoor suitability : UL 746C f2
Thermal cycle : IEC 60068-2-14:2009
Salt Fog* : IEC 60068-2-11
Vibration : AIS 156 (Annexure 8A)
Mechanical Impact* : IK10

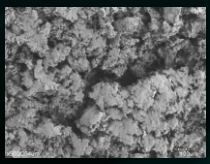
RoHS COMPLIANT EU Directive 2011/65/EU



#IP68 is a user defined test | *applicable to PVSV-M12V-SS

PORVENT®'S MEMBRANE TECHNOLOGY

sPTFE Membrane



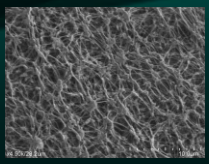
DURABILITY
Tough and robust. Not easily damaged when handled

SUPPORT
Pure PTFE, no lamination required

AIRFLOW
Stable and dependable flow rates

REPELLENCE
Inert and highly effective at material repellence

ePTFE Membrane



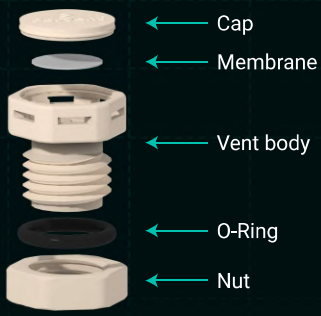
DURABILITY
Easily damaged when handled

SUPPORT
Has to be laminated with non-PTFE materials such as adhesives and polybackings

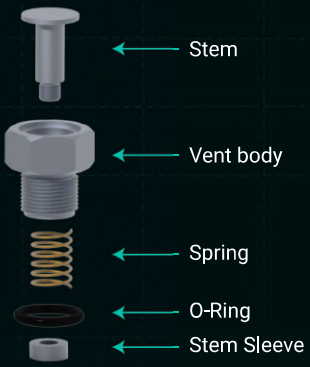
AIRFLOW
High, but inconsistent flow rates due to fragile nature

REPELLENCE
Inert and repellent, but tends to leave residue behind.

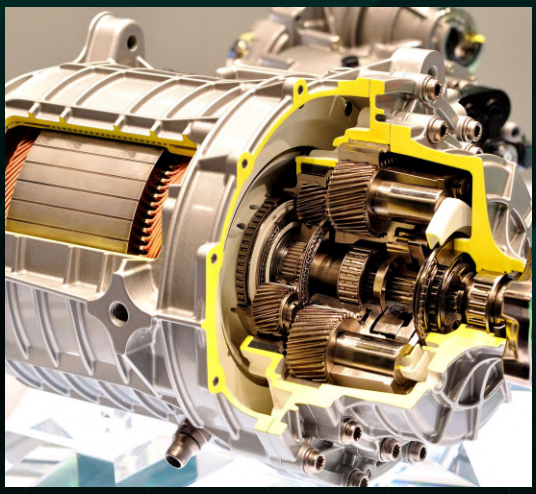
Membrane Vents



Mechanical Vents



	MEMBRANE	MECHANICAL
Resistance to moisture buildup	√	X
Resistance to pressure buildup	√	X
Absence of moving parts	√	X
Safe from water ingress during operation	√	X



Delivering innovation driven solutions to the world

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ISO 9001:2015 Certified

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PREFERRED CONVERTER

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