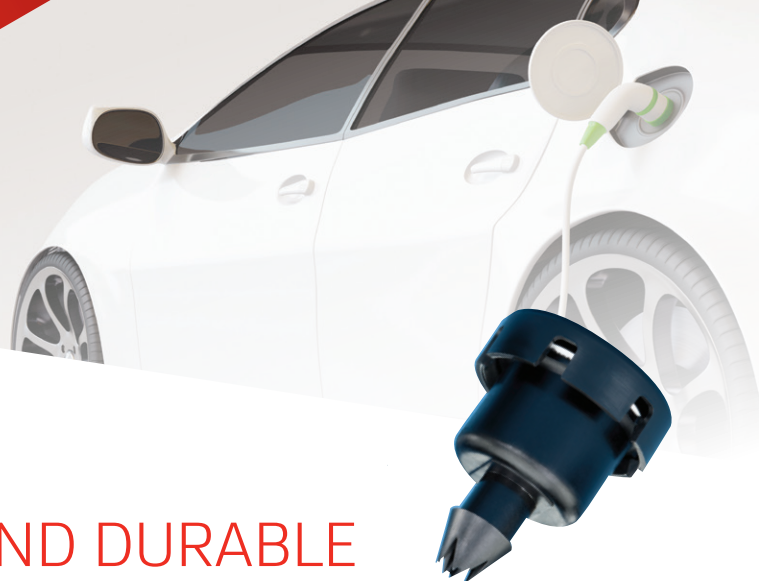


GORE® Automotive Vents

For Drivetrain & Driveline
Components



HIGH PERFORMANCE AND DURABLE PROTECTION IN A COMPACT DESIGN

Venting and ingress protection for electrified and traditional powertrain components

Venting for Protection

As packaging constraints push e-drivetrain components closer to the road surface, they are more frequently challenged by – and more vulnerable to – extremes of weather, submersion or contaminants like water, dirt, dust and debris. To maintain component reliability requires a high-performance venting solution.

For high performance in a compact, rugged design, rely on GORE® Automotive Vents for Drivetrain & Driveline Components (Series AVS 41/Product Number VE2048). These vents offer a single solution to multiple challenges in designing, validating, installing and protecting both electrified and traditional powertrain components.

A Single Solution with Multiple Benefits

- **Improve component reliability**
Unlike other methods, our venting performance can enhance component reliability. Gore's Series AVS 41 (VE2048) has an integrated membrane that effectively blocks contaminants – like water, dust and dirt – that can degrade the performance of oil-cooled e-motors and other e-drivetrain components. The integrated pre-filter protects the membrane from internal oil aerosol that would quickly degrade a standard membrane vent.
- **Preserve seal integrity**
At the heart of these vents is our breathable GORE Membrane: It equalizes pressures under both normal and extreme operating conditions, to avert stress on seals.
- **Meet global OEM standards**
Tests prove Gore's Series AVS 41 (VE2048) delivers performance that complies with OEM standards including water wading, vehicle rollover and fluid containment.
- **Streamline validation and reduce design cycles**
These waterproof vents can eliminate vent-related wading test "fails" and associated engineering redesign time.
- **Global support resources**
Every GORE® Automotive Vent is backed by our global network that includes deep expertise in materials technology and worldwide application support capabilities

Together, improving life



Product Information



Product name (order number for samples)	AVS 41
Order number (order number for series production)	VE2048

Product performance characteristics

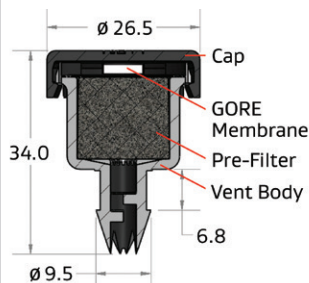
Minimum airflow (per part) at 70 mbar (1 psi)	64 l/h
Water Entry Pressure (assembly)	> 345 mbar (> 5.0 psi) for 60 seconds
Operating temperatures	-40 °C to +125 °C
Membrane characteristic	Hydrophobic and oleophobic

Materials of construction

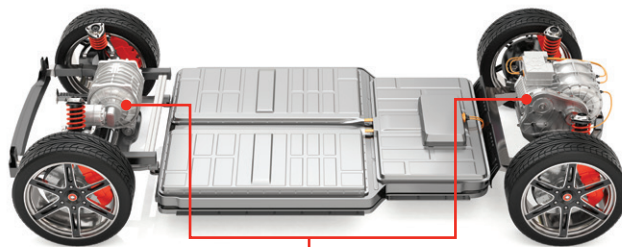
Cap material	PA6.6 Impact modified
Body material	PA6.6 – GF33
Membrane type	GORE Membrane oleophobic ePTFE
Pre-filter type	Sorbent

Vent design and dimensions

Units are in mm



Typical Applications



Traditional components:

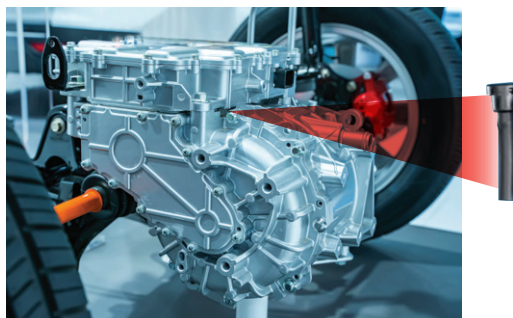
- Transfer Case
- Power Transfer Unit
- Solid Beam
- Rear/Front Drive Module

E-Drivetrain:

- e-Axles
- Oil-Cooled e-Motor

Vent Positioning and Installation

These rugged tube-mount vents are compact and easy to install. To ensure successful integration of these vents, several design considerations must be addressed. Contact your local Gore representative for guidance and additional design details



Learn more here:

[GORE® Automotive Vents for Drivetrain and Driveline Components](#)

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INTERNATIONAL CONTACTS

Australia +61 2 9473 6800

China +86 21 5172 8299

EMEA +49 89 4612 2211

India +91 22 6768 7000

Japan +81 3 6746 2570

Korea +82 2 393 3411

Mexico +52 81 8288 1281

Singapore +65 6733 2882

South America +55 11 5502 7800

Taiwan +886 2 2173 7799

USA +1 410 506 7812

W. L. Gore & Associates, Inc.

401 Airport Road, Elkton, MD 21922

T +1 800 523 4673 F +1 410 506 8749 E automotive.us@wlgore.com
gore.com/autovents

