GORE® Automotive Vents for Powertrain
Tube-Mount Type,
VE2048P



BRAND NEW VENTING TECHNOLOGY: RELIABLE PROTECTION WITH INCREASED AIRFLOW AND EXTENDED OIL AEROSOLS DURABILITY

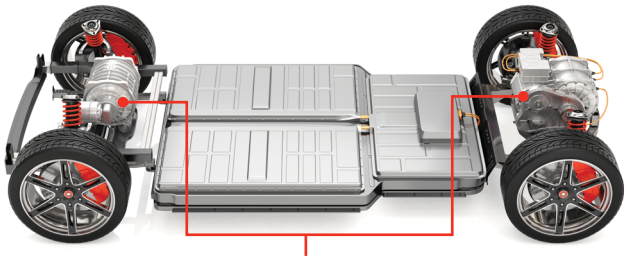
Next-Generation Powertrain Vent: Tube-Mount Type, VE2048P

Venting for Protection

As packaging constraints push electrified powertrain components closer to the road surface, they are more vulnerable to extremes of weather, water, submersion or road contaminants that can threaten component reliability.

Now, GORE® Automotive Vents for Powertrain offer high-performance venting and ingress protection. The vents' mounting format can help you overcome the challenges inherent in designing, validating, and protecting electrified and traditional powertrain components. The VE2048P is an upgraded version of GORE® Tube-Mount Vents for Powertrain, featuring higher airflow and extended oil aerosols durability.

Typical Applications



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

E-Drivetrain:
- e-Axles
- Oil-Cooled e-Motor

The Gore Advantage

- **Improve component reliability**
  The GORE Membrane protects oil-cooled e-motors and other e-drive components from damaging external environmental contaminants, while Gore's higher-capacity pre-filter technology protects the Membrane from internal oil aerosols, potentially extending vent life.
- **Preserve seal integrity**
  Even under extreme operating conditions, the higher airflow in our breathable GORE Membrane allows for even better pressure equalization to reduce stress on seals.
- **Meet global OEM standards**
  Our vents' performance complies with OEM standards for water wading 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 network and local support**
  Every GORE® Automotive Vent is backed by our global network, materials technology expertise and application support.

Together, improving life

About Gore's Tube-Mount Powertrain Vent, VE2048P

- Higher airflow and higher pre-filter capacity than our standard vents for even longer service life.
- Easy drop-in vent replacement in current designs with the same dimensions and installation method as our standard version; vent replacement, if required, is easy.



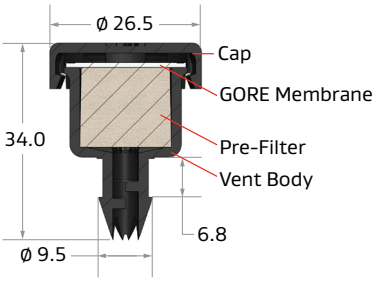
Item number (order number for series production)	**VE2048P**
Sample number (order number for samples)	**SMPL-VE2048P**

Product performance characteristics	
Minimum airflow (per part) at 70 mbar (1 psi)	1500 ml/min
Water Entry Pressure (assembly)	> 345 mbar (> 5.0 psi) for 60 seconds
Ingress Protection (IP)	IPX9K, IPX6K, IPX8, IPX4, IP6KX
Operating temperatures	– 40 °C to +125 °C, +145 °C for 48 hrs
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 material	Polymer fiber

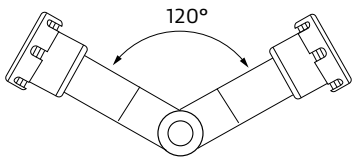
Vent design and dimensions

Units are in mm



Vent positioning, installation and tolerances

For full details on integrating these vents into your components, ask your representative for the **Design and Installation Guidelines for Gore Powertrain Vents**.



VERTICAL MOUNTING, OR WITHIN ± 60° OF VERTICAL, IS RECOMMENDED.

Suggested tube ID: 6.0–8.0 mm; wall thickness: 3.0 mm. Your tube supplier should recommend materials and dimensions that are optimal for your specific application.

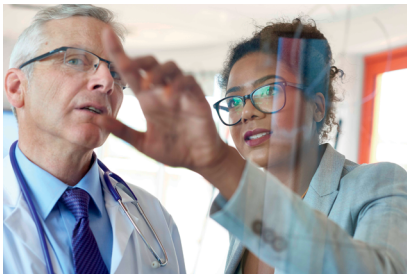
Contact your Gore representative to request the complete **Design and Installation Guidelines for Gore Powertrain Vents**



Gore's New-Generation Tube-Mount Vent, VE2048P

Learn more

Contact your Gore representative or connect with us at GORE® Automotive Vents for Powertrain.



A materials science company dedicated to transforming industries and improving lives

About Gore

W. L. Gore & Associates is a global materials science company dedicated to transforming industries and improving lives. Since 1958, Gore has solved complex technical challenges in demanding environments — from outer space to the world's highest peaks to the inner workings of the human body. With approximately 13,000 Associates and a strong, team-oriented culture, Gore generates annual revenues of $5 billion.

Learn more at gore.com

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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/automotive

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