

GORE® Automotive Vents
for Snap-Fit Installation

FOR ELECTRONIC POWER STEERING (EPS) SYSTEMS:

Standard Series (AVS 14), High Temperature Series (AVS 67) and Compact Series (AVS 200)

Performance-Engineered for EPS Systems

The reliable performance of GORE® Automotive Vents for Snap-Fit Installation has been proven in millions of automotive components, worldwide. For EPS applications, we offer three easy-to-integrate performance options: the Standard Series (AVS 14), the High Temperature Series (AVS 67) and the Compact Series (AVS 200). Their GORE Membrane technology balances venting performance and barrier protection, to rapidly and continuously equalize pressure differentials while blocking ingress of damaging under-hood or axle-level liquids and solids.

These durable yet lightweight Snap-Fit Vents extend the performance and reliability of the mechanical components while protecting critical electronics such as motors, torque sensors, and Electronic Control Units (ECU).

Better-Protected Components; Better-Performing Boots

Whether in metal or polymer housings, GORE Automotive Vents for Snap-Fit Installation provide distinct performance advantages. In all types of housings, venting is essential for rapid equalization of pressure. Unless relieved, these pressure differentials will repeatedly stress seals and boots. Over the vehicle life, repeated stress cycles will increase the potential for failure. Once a leak path is created, subsequent vacuum cycles can pull liquids or particulates into the housing, where they can degrade sensitive electronics or mechanical components.

In addition to preserving component service life, Gore Snap-Fit Vents offer advantages for boot packaging. A vented EPS rack eliminates boot deformation, which enables closer spacing of the steering rack to other chassis components – a definite advantage in today's component-dense automotive builds.



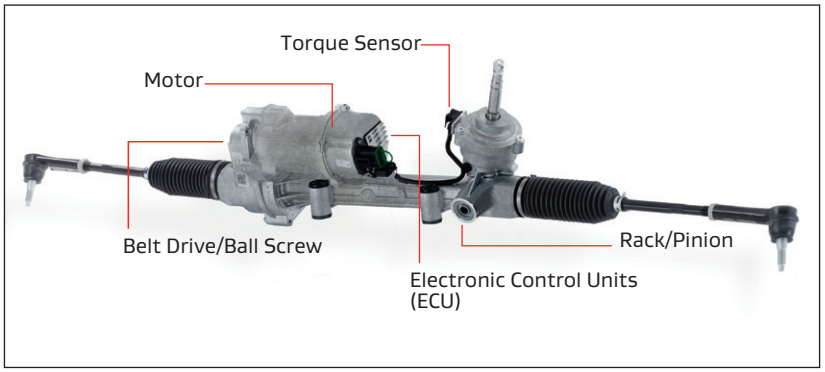
Realize the Benefits of GORE® Automotive Vents for EPS Applications

- **Enables reduced steering rack space requirements** by eliminating boot deformation
- **Reduces potential for boot wear** to help boots maintain their protective function
- **Protects electronics (motors, Electronic Control Units (ECU), sensors) from contaminants**, due to oleophobic and hydrophobic vent membrane
- **Reduces risk of housing seal stress/failure** by rapidly equalizing pressure differentials
- **Provides access** to Gore Application Engineers and technical resources, worldwide

Together, improving life

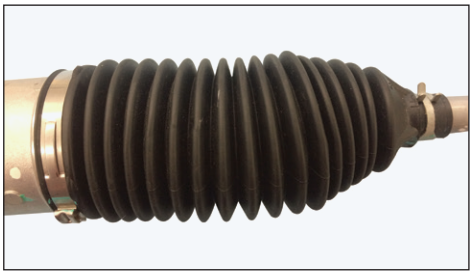
AVS 14, AVS 67 and AVS 200 for EPS Applications

Typical EPS Rack Drive





Sealed systems “trap” pressure differentials that cause boot deformation.



Venting prevents deformation, preserving the boot’s structural integrity and reliably maintaining its “as-designed” protective function.

Snap-Fit Vent Installation

Gore Snap-Fit Vents are designed for fast, easy installation using either automated or manual assembly processes. A detailed Snap-Fit Vents Installation and Inspection Guide is available at gore.com. It includes recommendations to optimize through-hole geometries, the installation process, vent placement, and more.

Optimal Vent Positioning in EPS Applications

EPS applications that contain grease lubricant on internal components require special consideration for vent placement. Please contact Gore’s application engineers to discuss your application and to ensure optimal vent performance.

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 12,000 Associates and a strong, team-oriented culture, Gore generates annual revenues of $5.6 billion. **www.gore.com**

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